



Welcome

# AWS HealthOmics



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# AWS HealthOmics: Welcome

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# Welcome

This is the *AWS HealthOmics API Reference*. For an introduction to the service, see [What is AWS HealthOmics?](#) in the *AWS HealthOmics User Guide*.

This document was last published on July 2, 2024.

# Actions

The following actions are supported:

- [AbortMultipartReadSetUpload](#)
- [AcceptShare](#)
- [BatchDeleteReadSet](#)
- [CancelAnnotationImportJob](#)
- [CancelRun](#)
- [CancelVariantImportJob](#)
- [CompleteMultipartReadSetUpload](#)
- [CreateAnnotationStore](#)
- [CreateAnnotationStoreVersion](#)
- [CreateMultipartReadSetUpload](#)
- [CreateReferenceStore](#)
- [CreateRunGroup](#)
- [CreateSequenceStore](#)
- [CreateShare](#)
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- [CreateWorkflow](#)
- [DeleteAnnotationStore](#)
- [DeleteAnnotationStoreVersions](#)
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- [DeleteReferenceStore](#)
- [DeleteRun](#)
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- [GetAnnotationStore](#)
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- [GetSequenceStore](#)
- [GetShare](#)
- [GetVariantImportJob](#)
- [GetVariantStore](#)
- [GetWorkflow](#)
- [ListAnnotationImportJobs](#)
- [ListAnnotationStores](#)
- [ListAnnotationStoreVersions](#)
- [ListMultipartReadSetUploads](#)
- [ListReadSetActivationJobs](#)
- [ListReadSetExportJobs](#)
- [ListReadSetImportJobs](#)
- [ListReadSets](#)
- [ListReadSetUploadParts](#)
- [ListReferenceImportJobs](#)
- [ListReferences](#)

- [ListReferenceStores](#)
- [ListRunGroups](#)
- [ListRuns](#)
- [ListRunTasks](#)
- [ListSequenceStores](#)
- [ListShares](#)
- [ListTagsForResource](#)
- [ListVariantImportJobs](#)
- [ListVariantStores](#)
- [ListWorkflows](#)
- [StartAnnotationImportJob](#)
- [StartReadSetActivationJob](#)
- [StartReadSetExportJob](#)
- [StartReadSetImportJob](#)
- [StartReferenceImportJob](#)
- [StartRun](#)
- [StartVariantImportJob](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateAnnotationStore](#)
- [UpdateAnnotationStoreVersion](#)
- [UpdateRunGroup](#)
- [UpdateVariantStore](#)
- [UpdateWorkflow](#)
- [UploadReadSetPart](#)

# AbortMultipartReadSetUpload

Stops a multipart upload.

## Request Syntax

```
DELETE /sequencestore/sequenceStoreId/upload/uploadId/abort HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### sequenceStoreId

The sequence store ID for the store involved in the multipart upload.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### uploadId

The ID for the multipart upload.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```



## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **NotSupportedOperationException**

The operation is not supported by Amazon Omics, or the API does not exist.

HTTP Status Code: 405

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# AcceptShare

Accept a resource share request.

## Request Syntax

```
POST /share/shareId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### shareId

The ID of the resource share.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### status

The status of the resource share.

Type: String

Valid Values: PENDING | ACTIVATING | ACTIVE | DELETING | DELETED | FAILED

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### InternalServerError

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### ResourceNotFoundException

The target resource was not found in the current Region.

HTTP Status Code: 404

### ServiceQuotaExceededException

The request exceeds a service quota.

HTTP Status Code: 402

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# BatchDeleteReadSet

Deletes one or more read sets.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/readset/batch/delete HTTP/1.1
Content-type: application/json

{
  "ids": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### sequenceStoreId

The read sets' sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### ids

The read sets' IDs.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "errors": [
    {
      "code": "string",
      "id": "string",
      "message": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### errors

Errors returned by individual delete operations.

Type: Array of [ReadSetBatchError](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

## **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

## **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

## **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)



- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CancelAnnotationImportJob

Cancels an annotation import job.

## Request Syntax

```
DELETE /import/annotation/jobId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### jobId

The job's ID.

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CancelRun

Cancels a run.

## Request Syntax

```
POST /run/id/cancel HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The run's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CancelVariantImportJob

Cancels a variant import job.

## Request Syntax

```
DELETE /import/variant/jobId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### jobId

The job's ID.

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# CompleteMultipartReadSetUpload

Concludes a multipart upload once you have uploaded all the components.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/upload/uploadId/complete HTTP/1.1
Content-type: application/json

{
  "parts": [
    {
      "checksum": "string",
      "partNumber": number,
      "partSource": "string"
    }
  ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### sequenceStoreId

The sequence store ID for the store involved in the multipart upload.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### uploadId

The ID for the multipart upload.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### parts

The individual uploads or parts of a multipart upload.

Type: Array of [CompleteReadSetUploadPartListItem](#) objects

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "readSetId": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### readSetId

The read set ID created for an uploaded read set.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**NotSupportedOperationException**

The operation is not supported by Amazon Omics, or the API does not exist.

HTTP Status Code: 405

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateAnnotationStore

Creates an annotation store.

## Request Syntax

```
POST /annotationStore HTTP/1.1
Content-type: application/json
```

```
{
  "description": "string",
  "name": "string",
  "reference": { ... },
  "sseConfig": {
    "keyArn": "string",
    "type": "string"
  },
  "storeFormat": "string",
  "storeOptions": { ... },
  "tags": {
    "string" : "string"
  },
  "versionName": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### description

A description for the store.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

## name

A name for the store.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: (`[a-z]`){1}(`[a-z0-9_]`){2, 254}

Required: No

## reference

The genome reference for the store's annotations.

Type: [ReferenceItem](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## sseConfig

Server-side encryption (SSE) settings for the store.

Type: [SseConfig](#) object

Required: No

## storeFormat

The annotation file format of the store.

Type: String

Valid Values: GFF | TSV | VCF

Required: Yes

## storeOptions

File parsing options for the annotation store.

Type: [StoreOptions](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### tags

Tags for the store.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

### versionName

The name given to an annotation store version to distinguish it from other versions.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: ([a-z]){1}([a-z0-9\_]){2,254}

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "creationTime": "string",
  "id": "string",
  "name": "string",
  "reference": { ... },
  "status": "string",
  "storeFormat": "string",
  "storeOptions": { ... },
  "versionName": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### creationTime

When the store was created.

Type: Timestamp

### id

The store's ID.

Type: String

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

### name

The store's name.

Type: String

### reference

The store's genome reference. Required for all stores except TSV format with generic annotations.

Type: [Referenceltem](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### status

The store's status.

Type: String

Valid Values: CREATING | UPDATING | DELETING | ACTIVE | FAILED

### storeFormat

The annotation file format of the store.



Type: String

Valid Values: GFF | TSV | VCF

### storeOptions

The store's file parsing options.

Type: [StoreOptions](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### versionName

The name given to an annotation store version to distinguish it from other versions.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: (`[a-z]`){1}(`[a-z0-9_]`){2,254}

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### **InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateAnnotationStoreVersion

Creates a new version of an annotation store.

## Request Syntax

```
POST /annotationStore/name/version HTTP/1.1
Content-type: application/json
```

```
{
  "description": "string",
  "tags": {
    "string" : "string"
  },
  "versionName": "string",
  "versionOptions": { ... }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### name

The name of an annotation store version from which versions are being created.

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: (`[a-z]`){1}(`[a-z0-9_]`){2,254}

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### description

The description of an annotation store version.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

### tags

Any tags added to annotation store version.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

### versionName

The name given to an annotation store version to distinguish it from other versions.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: ([a-z]){1}([a-z0-9\_]){2,254}

Required: Yes

### versionOptions

The options for an annotation store version.

Type: [VersionOptions](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "creationTime": "string",
```

```
"id": "string",
"name": "string",
"status": "string",
"storeId": "string",
"versionName": "string",
"versionOptions": { ... }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### creationTime

The time stamp for the creation of an annotation store version.

Type: Timestamp

### id

A generated ID for the annotation store

Type: String

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

### name

The name given to an annotation store version to distinguish it from other versions.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: ([a-z]){1}([a-z0-9\_]){2,254}

### status

The status of a annotation store version.

Type: String

Valid Values: CREATING | UPDATING | DELETING | ACTIVE | FAILED

## storeId

The ID for the annotation store from which new versions are being created.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

## versionName

The name given to an annotation store version to distinguish it from other versions.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

## versionOptions

The options for an annotation store version.

Type: [VersionOptions](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateMultipartReadSetUpload

Begins a multipart read set upload.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/upload HTTP/1.1  
Content-type: application/json
```

```
{  
  "clientToken": "string",  
  "description": "string",  
  "generatedFrom": "string",  
  "name": "string",  
  "referenceArn": "string",  
  "sampleId": "string",  
  "sourceFileType": "string",  
  "subjectId": "string",  
  "tags": {  
    "string" : "string"  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### sequenceStoreId

The sequence store ID for the store that is the destination of the multipart uploads.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request accepts the following data in JSON format.



## clientToken

An idempotency token that can be used to avoid triggering multiple multipart uploads.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

## description

The description of the read set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

## generatedFrom

Where the source originated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

## name

The name of the read set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: Yes

### referenceArn

The ARN of the reference.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: arn: . +

Required: No

### sampleId

The source's sample ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: [\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}] +

Required: Yes

### sourceFileType

The type of file being uploaded.

Type: String

Valid Values: FASTQ | BAM | CRAM | UBAM

Required: Yes

### subjectId

The source's subject ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: [\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}] +

Required: Yes

## tags

Any tags to add to the read set.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "creationTime": "string",
  "description": "string",
  "generatedFrom": "string",
  "name": "string",
  "referenceArn": "string",
  "sampleId": "string",
  "sequenceStoreId": "string",
  "sourceFileType": "string",
  "subjectId": "string",
  "tags": {
    "string" : "string"
  },
  "uploadId": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### creationTime

The creation time of the multipart upload.

Type: Timestamp

### description

The description of the read set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]`+

### generatedFrom

The source of the read set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]`+

### name

The name of the read set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]`+

### referenceArn

The read set source's reference ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn: .+`

### sampleId

The source's sample ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]`+

### sequenceStoreId

The sequence store ID for the store that the read set will be created in.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]`+

### sourceFileType

The file type of the read set source.

Type: String

Valid Values: FASTQ | BAM | CRAM | UBAM

### subjectId

The source's subject ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]`+

### tags

The tags to add to the read set.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

### uploadId

The ID for the initiated multipart upload.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **NotSupportedOperationException**

The operation is not supported by Amazon Omics, or the API does not exist.

HTTP Status Code: 405

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateReferenceStore

Creates a reference store.

## Request Syntax

```
POST /referencestore HTTP/1.1
Content-type: application/json

{
  "clientToken": "string",
  "description": "string",
  "name": "string",
  "sseConfig": {
    "keyArn": "string",
    "type": "string"
  },
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### clientToken

To ensure that requests don't run multiple times, specify a unique token for each request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No



## description

A description for the store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

## name

A name for the store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: Yes

## sseConfig

Server-side encryption (SSE) settings for the store.

Type: [SseConfig](#) object

Required: No

## tags

Tags for the store.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "arn": "string",
  "creationTime": "string",
  "description": "string",
  "id": "string",
  "name": "string",
  "sseConfig": {
    "keyArn": "string",
    "type": "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### arn

The store's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: arn: .+

### creationTime

When the store was created.

Type: Timestamp

### description

The store's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### id

The store's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

### name

The store's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### sseConfig

The store's SSE settings.

Type: [SseConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

## RequestTimeoutException

The request timed out.

HTTP Status Code: 408

## ServiceQuotaExceededException

The request exceeds a service quota.

HTTP Status Code: 402

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateRunGroup

You can optionally create a run group to limit the compute resources for the runs that you add to the group.

## Request Syntax

```
POST /runGroup HTTP/1.1
Content-type: application/json
```

```
{
  "maxCpus": number,
  "maxDuration": number,
  "maxGpus": number,
  "maxRuns": number,
  "name": "string",
  "requestId": "string",
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### maxCpus

The maximum number of CPUs that can run concurrently across all active runs in the run group.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

### maxDuration

The maximum time for each run (in minutes). If a run exceeds the maximum run time, the run fails automatically.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

### maxGpus

The maximum number of GPUs that can run concurrently across all active runs in the run group.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

### maxRuns

The maximum number of runs that can be running at the same time.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

### name

A name for the group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### requestId

To ensure that requests don't run multiple times, specify a unique ID for each request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: Yes

### tags

Tags for the group.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json
```

```
{
  "arn": "string",
  "id": "string",
  "tags": {
    "string" : "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

### arn

The group's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: arn: . +

### id

The group's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

### tags

Tags for the run group.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.



HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateSequenceStore

Creates a sequence store.

## Request Syntax

```
POST /sequencestore HTTP/1.1
Content-type: application/json

{
  "clientToken": "string",
  "description": "string",
  "eTagAlgorithmFamily": "string",
  "fallbackLocation": "string",
  "name": "string",
  "sseConfig": {
    "keyArn": "string",
    "type": "string"
  },
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### clientToken

To ensure that requests don't run multiple times, specify a unique token for each request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### description

A description for the store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### eTagAlgorithmFamily

The ETag algorithm family to use for ingested read sets.

Type: String

Valid Values: MD5up | SHA256up | SHA512up

Required: No

### fallbackLocation

An S3 location that is used to store files that have failed a direct upload.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/?((.{1,1024})/)?`

Required: No

### name

A name for the store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: Yes

## sseConfig

Server-side encryption (SSE) settings for the store.

Type: [SseConfig](#) object

Required: No

## tags

Tags for the store.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "arn": "string",
  "creationTime": "string",
  "description": "string",
  "eTagAlgorithmFamily": "string",
  "fallbackLocation": "string",
  "id": "string",
  "name": "string",
  "sseConfig": {
    "keyArn": "string",
    "type": "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### arn

The store's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.*`

### creationTime

When the store was created.

Type: Timestamp

### description

The store's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### eTagAlgorithmFamily

The algorithm family of the ETag.

Type: String

Valid Values: MD5up | SHA256up | SHA512up

### fallbackLocation

An S3 location that is used to store files that have failed a direct upload.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-]{1,61}[a-z0-9])/?((.{1,1024})/)?`

### id

The store's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

### name

The store's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: [\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+

### sseConfig

The store's SSE settings.

Type: [SseConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# CreateShare

Creates a cross-account shared resource. The resource owner makes an offer to share the resource with the principal subscriber (an AWS user with a different account than the resource owner).

The following resources support cross-account sharing:

- HealthOmics variant stores
- HealthOmics annotation stores
- Private workflows

## Request Syntax

```
POST /share HTTP/1.1
Content-type: application/json

{
  "principalSubscriber": "string",
  "resourceArn": "string",
  "shareName": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### principalSubscriber

The principal subscriber is the account being offered shared access to the resource.

Type: String

Required: Yes

### resourceArn

The ARN of the resource to be shared.

Type: String

Required: Yes

### shareName

A name that the owner defines for the share.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z0-9\_-]+

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "shareId": "string",
  "shareName": "string",
  "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### shareId

The ID that HealthOmics generates for the share.

Type: String

### shareName

The name of the share.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z0-9\_-]+

### status

The status of the share.

Type: String

Valid Values: PENDING | ACTIVATING | ACTIVE | DELETING | DELETED | FAILED

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### **InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateVariantStore

Creates a variant store.

## Request Syntax

```
POST /variantStore HTTP/1.1
Content-type: application/json
```

```
{
  "description": "string",
  "name": "string",
  "reference": { ... },
  "sseConfig": {
    "keyArn": "string",
    "type": "string"
  },
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### description

A description for the store.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

### name

A name for the store.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: (`[a-z]`){1}(`[a-z0-9_]`){2,254}

Required: No

### reference

The genome reference for the store's variants.

Type: [ReferenceItem](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### sseConfig

Server-side encryption (SSE) settings for the store.

Type: [SseConfig](#) object

Required: No

### tags

Tags for the store.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
"creationTime": "string",  
"id": "string",  
"name": "string",  
"reference": { ... },  
"status": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### creationTime

When the store was created.

Type: Timestamp

### id

The store's ID.

Type: String

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

### name

The store's name.

Type: String

### reference

The store's genome reference.

Type: [Referenceltem](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### status

The store's status.

Type: String

Valid Values: CREATING | UPDATING | DELETING | ACTIVE | FAILED

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### InternalServerError

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### ResourceNotFoundException

The target resource was not found in the current Region.

HTTP Status Code: 404

### ServiceQuotaExceededException

The request exceeds a service quota.

HTTP Status Code: 402

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400



## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateWorkflow

Creates a workflow.

## Request Syntax

```
POST /workflow HTTP/1.1
Content-type: application/json
```

```
{
  "accelerators": "string",
  "definitionUri": "string",
  "definitionZip": blob,
  "description": "string",
  "engine": "string",
  "main": "string",
  "name": "string",
  "parameterTemplate": {
    "string" : {
      "description": "string",
      "optional": boolean
    }
  },
  "requestId": "string",
  "storageCapacity": number,
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### accelerators

The computational accelerator specified to run the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: GPU

Required: No

### definitionUri

The URI of a definition for the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### definitionZip

A ZIP archive for the workflow.

Type: Base64-encoded binary data object

Required: No

### description

A description for the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### engine

An engine for the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: WDL | NEXTFLOW | CWL

Required: No

### main

The path of the main definition file for the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### name

A name for the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### parameterTemplate

A parameter template for the workflow.

Type: String to [WorkflowParameter](#) object map

Map Entries: Maximum number of 1000 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### requestId

To ensure that requests don't run multiple times, specify a unique ID for each request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: Yes

### storageCapacity

The default storage capacity for the workflow runs, in gibibytes.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

Required: No

### tags

Tags for the workflow.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json
```

```
{
  "arn": "string",
  "id": "string",
  "status": "string",
  "tags": {
    "string" : "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

### arn

The workflow's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn: .+`

### id

The workflow's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

### status

The workflow's status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `CREATING | ACTIVE | UPDATING | DELETED | FAILED | INACTIVE`

### tags

The workflow's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### **InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# DeleteAnnotationStore

Deletes an annotation store.

## Request Syntax

```
DELETE /annotationStore/name?force=force HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### force

Whether to force deletion.

### name

The store's name.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## status

The store's status.

Type: String

Valid Values: CREATING | UPDATING | DELETING | ACTIVE | FAILED

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### **InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteAnnotationStoreVersions

Deletes one or multiple versions of an annotation store.

## Request Syntax

```
POST /annotationStore/name/versions/delete?force=force HTTP/1.1  
Content-type: application/json
```

```
{  
  "versions": [ "string" ]  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### force

Forces the deletion of an annotation store version when imports are in-progress..

### name

The name of the annotation store from which versions are being deleted.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### versions

The versions of an annotation store to be deleted.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: ([a-z]){1}([a-z0-9\_]){2,254}

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "errors": [
    {
      "message": "string",
      "versionName": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### errors

Any errors that occur when attempting to delete an annotation store version.

Type: Array of [VersionDeleteError](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteReference

Deletes a genome reference.

## Request Syntax

```
DELETE /referencestore/referenceStoreId/reference/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The reference's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### referenceStoreId

The reference's store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### InternalServerError

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### RequestTimeoutException

The request timed out.

HTTP Status Code: 408

### ResourceNotFoundException

The target resource was not found in the current Region.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the constraints specified by an AWS service.



HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteReferenceStore

Deletes a genome reference store.

## Request Syntax

```
DELETE /referencestore/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The store's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteRun

Deletes a workflow run.

## Request Syntax

```
DELETE /run/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The run's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteRunGroup

Deletes a workflow run group.

## Request Syntax

```
DELETE /runGroup/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The run group's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).



**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteSequenceStore

Deletes a sequence store.

## Request Syntax

```
DELETE /sequencestore/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The sequence store's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteShare

Deletes a resource share. If you are the resource owner, the subscriber will no longer have access to the shared resource. If you are the subscriber, this operation deletes your access to the share.

## Request Syntax

```
DELETE /share/shareId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### shareId

The ID for the resource share to be deleted.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### status

The status of the share being deleted.

Type: String

Valid Values: PENDING | ACTIVATING | ACTIVE | DELETING | DELETED | FAILED

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### InternalServerError

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### ResourceNotFoundException

The target resource was not found in the current Region.

HTTP Status Code: 404

### ServiceQuotaExceededException

The request exceeds a service quota.

HTTP Status Code: 402

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# DeleteVariantStore

Deletes a variant store.

## Request Syntax

```
DELETE /variantStore/name?force=force HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### force

Whether to force deletion.

### name

The store's name.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## status

The store's status.

Type: String

Valid Values: CREATING | UPDATING | DELETING | ACTIVE | FAILED

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### **InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteWorkflow

Deletes a workflow.

## Request Syntax

```
DELETE /workflow/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The workflow's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetAnnotationImportJob

Gets information about an annotation import job.

## Request Syntax

```
GET /import/annotation/jobId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### jobId

The job's ID.

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "annotationFields": {
    "string" : "string"
  },
  "completionTime": "string",
  "creationTime": "string",
  "destinationName": "string",
  "formatOptions": { ... },
  "id": "string",
  "items": [
    {
```

```
        "jobStatus": "string",
        "source": "string"
    }
],
"roleArn": "string",
"runLeftNormalization": boolean,
"status": "string",
"statusMessage": "string",
"updateTime": "string",
"versionName": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### annotationFields

The annotation schema generated by the parsed annotation data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 21.

Value Length Constraints: Minimum length of 1. Maximum length of 21.

### completionTime

When the job completed.

Type: Timestamp

### creationTime

When the job was created.

Type: Timestamp

### destinationName

The job's destination annotation store.

Type: String



Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: (`[a-z]`){1}(`[a-z0-9_]`){2,254}

### formatOptions

Formatting options for a file.

Type: [FormatOptions](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### id

The job's ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

### items

The job's imported items.

Type: Array of [AnnotationImportItemDetail](#) objects

Array Members: Fixed number of 1 item.

### roleArn

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

### runLeftNormalization

The job's left normalization setting.

Type: Boolean

### status

The job's status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLED | COMPLETED | FAILED | COMPLETED\_WITH\_FAILURES

### statusMessage

The job's status message.

Type: String

### updateTime

When the job was updated.

Type: Timestamp

### versionName

The name of the annotation store version.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: ([a-z]){1}([a-z0-9\_]){2,254}

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetAnnotationStore

Gets information about an annotation store.

## Request Syntax

```
GET /annotationStore/name HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### name

The store's name.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{  
  "creationTime": "string",  
  "description": "string",  
  "id": "string",  
  "name": "string",  
  "numVersions": number,  
  "reference": { ... },  
  "sseConfig": {  
    "keyArn": "string",  
    "type": "string"  
  },  
  "status": "string",  
  "statusMessage": "string",  
  "storeArn": "string",
```

```
"storeFormat": "string",
"storeOptions": { ... },
"storeSizeBytes": number,
"tags": {
  "string" : "string"
},
"updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### creationTime

When the store was created.

Type: Timestamp

### description

The store's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

### id

The store's ID.

Type: String

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

### name

The store's name.

Type: String

### numVersions

An integer indicating how many versions of an annotation store exist.

Type: Integer

### reference

The store's genome reference.

Type: [ReferenceItem](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### sseConfig

The store's server-side encryption (SSE) settings.

Type: [SseConfig](#) object

### status

The store's status.

Type: String

Valid Values: CREATING | UPDATING | DELETING | ACTIVE | FAILED

### statusMessage

A status message.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

### storeArn

The store's ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:([^: ]\*):([^: ]\*):([^: ]\*):([0-9]{12}):([^: ]\*)

### storeFormat

The store's annotation file format.

Type: String

Valid Values: GFF | TSV | VCF

### storeOptions

The store's parsing options.

Type: [StoreOptions](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### storeSizeBytes

The store's size in bytes.

Type: Long

### tags

The store's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

### updateTime

When the store was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetAnnotationStoreVersion

Retrieves the metadata for an annotation store version.

## Request Syntax

```
GET /annotationStore/name/version/versionName HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### name

The name given to an annotation store version to distinguish it from others.

Required: Yes

### versionName

The name given to an annotation store version to distinguish it from others.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "creationTime": "string",
  "description": "string",
  "id": "string",
  "name": "string",
  "status": "string",
  "statusMessage": "string",
```

```
"storeId": "string",
"tags": {
  "string" : "string"
},
"updateTime": "string",
"versionArn": "string",
"versionName": "string",
"versionOptions": { ... },
"versionSizeBytes": number
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### creationTime

The time stamp for when an annotation store version was created.

Type: Timestamp

### description

The description for an annotation store version.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

### id

The annotation store version ID.

Type: String

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

### name

The name of the annotation store.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: (`[a-z]`){1}(`[a-z0-9_]`){2,254}

### status

The status of an annotation store version.

Type: String

Valid Values: CREATING | UPDATING | DELETING | ACTIVE | FAILED

### statusMessage

The status of an annotation store version.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

### storeId

The store ID for annotation store version.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

### tags

Any tags associated with an annotation store version.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

### updateTime

The time stamp for when an annotation store version was updated.

Type: Timestamp

### versionArn

The Arn for the annotation store.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:(^[^: ]*):(^[^: ]*):(^[^: ]*):([0-9]{12}):(^[^: ]*)`

### versionName

The name given to an annotation store version to distinguish it from others.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

### versionOptions

The options for an annotation store version.

Type: [VersionOptions](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### versionSizeBytes

The size of the annotation store version in Bytes.

Type: Long

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

## ResourceNotFoundException

The target resource was not found in the current Region.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetReadSet

Gets a file from a read set.

## Request Syntax

```
GET /sequencestore/sequenceStoreId/readset/id?file=file&partNumber=partNumber HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### file

The file to retrieve.

Valid Values: SOURCE1 | SOURCE2 | INDEX

### id

The read set's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### partNumber

The part number to retrieve.

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: Yes

### sequenceStoreId

The read set's sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
payload
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response returns the following as the HTTP body.

### payload

The read set file payload.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RangeNotSatisfiableException**

The ranges specified in the request are not valid.

HTTP Status Code: 416

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)



- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetReadSetActivationJob

Gets information about a read set activation job.

## Request Syntax

```
GET /sequencestore/sequenceStoreId/activationjob/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The job's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### sequenceStoreId

The job's sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "completionTime": "string",
  "creationTime": "string",
  "id": "string",
  "sequenceStoreId": "string",
  "sources": [
    {
      "readSetId": "string",
      "status": "string",
      "statusMessage": "string"
    }
  ],
  "status": "string",
  "statusMessage": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### completionTime

When the job completed.

Type: Timestamp

### creationTime

When the job was created.

Type: Timestamp

### id

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

## sequenceStoreId

The job's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

## sources

The job's source files.

Type: Array of [ActivateReadSetSourceItem](#) objects

## status

The job's status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED\_WITH\_FAILURES

## statusMessage

The job's status message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

## **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

## **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

## **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetReadSetExportJob

Gets information about a read set export job.

## Request Syntax

```
GET /sequencestore/sequenceStoreId/exportjob/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The job's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### sequenceStoreId

The job's sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
"completionTime": "string",
"creationTime": "string",
"destination": "string",
"id": "string",
"readSets": [
  {
    "id": "string",
    "status": "string",
    "statusMessage": "string"
  }
],
"sequenceStoreId": "string",
"status": "string",
"statusMessage": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### completionTime

When the job completed.

Type: Timestamp

### creationTime

When the job was created.

Type: Timestamp

### destination

The job's destination in Amazon S3.

Type: String

Pattern: s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/?((.{1,1024})/)?

### id

The job's ID.



Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

### readSets

The job's read sets.

Type: Array of [ExportReadSetDetail](#) objects

### sequenceStoreId

The job's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

### status

The job's status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED\_WITH\_FAILURES

### statusMessage

The job's status message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: [\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

## **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

## **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

## **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetReadSetImportJob

Gets information about a read set import job.

## Request Syntax

```
GET /sequencestore/sequenceStoreId/importjob/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The job's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### sequenceStoreId

The job's sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
"completionTime": "string",
"creationTime": "string",
"id": "string",
"roleArn": "string",
"sequenceStoreId": "string",
"sources": [
  {
    "description": "string",
    "generatedFrom": "string",
    "name": "string",
    "referenceArn": "string",
    "sampleId": "string",
    "sourceFiles": {
      "source1": "string",
      "source2": "string"
    },
    "sourceFileType": "string",
    "status": "string",
    "statusMessage": "string",
    "subjectId": "string",
    "tags": {
      "string" : "string"
    }
  }
],
"status": "string",
"statusMessage": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### completionTime

When the job completed.

Type: Timestamp

### creationTime

When the job was created.

Type: Timestamp

### id

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

### roleArn

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:.\*

### sequenceStoreId

The job's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

### sources

The job's source files.

Type: Array of [ImportReadSetSourceItem](#) objects

### status

The job's status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED\_WITH\_FAILURES

## statusMessage

The job's status message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### InternalServerErrorException

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### RequestTimeoutException

The request timed out.

HTTP Status Code: 408

### ResourceNotFoundException

The target resource was not found in the current Region.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetReadSetMetadata

Gets details about a read set.

## Request Syntax

```
GET /sequencestore/sequenceStoreId/readset/id/metadata HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The read set's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### sequenceStoreId

The read set's sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "arn": "string",
```

```
"creationTime": "string",
"creationType": "string",
"description": "string",
"etag": {
  "algorithm": "string",
  "source1": "string",
  "source2": "string"
},
"files": {
  "index": {
    "contentLength": number,
    "partSize": number,
    "s3Access": {
      "s3Uri": "string"
    },
    "totalParts": number
  },
  "source1": {
    "contentLength": number,
    "partSize": number,
    "s3Access": {
      "s3Uri": "string"
    },
    "totalParts": number
  },
  "source2": {
    "contentLength": number,
    "partSize": number,
    "s3Access": {
      "s3Uri": "string"
    },
    "totalParts": number
  }
},
"fileType": "string",
"id": "string",
"name": "string",
"referenceArn": "string",
"sampleId": "string",
"sequenceInformation": {
  "alignment": "string",
  "generatedFrom": "string",
  "totalBaseCount": number,
  "totalReadCount": number
}
```

```
},  
  "sequenceStoreId": "string",  
  "status": "string",  
  "statusMessage": "string",  
  "subjectId": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### arn

The read set's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: arn: .+

### creationTime

When the read set was created.

Type: Timestamp

### creationType

The creation type of the read set.

Type: String

Valid Values: IMPORT | UPLOAD

### description

The read set's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]`+

### etag

The entity tag (ETag) is a hash of the object meant to represent its semantic content.

Type: [ETag](#) object

### files

The read set's files.

Type: [ReadSetFiles](#) object

### fileType

The read set's file type.

Type: String

Valid Values: FASTQ | BAM | CRAM | UBAM

### id

The read set's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]`+

### name

The read set's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]`+

### referenceArn

The read set's genome reference ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn: .+`

### sampleId

The read set's sample ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### sequenceInformation

The read set's sequence information.

Type: [SequenceInformation](#) object

### sequenceStoreId

The read set's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

### status

The read set's status.

Type: String

Valid Values: ARCHIVED | ACTIVATING | ACTIVE | DELETING | DELETED | PROCESSING\_UPLOAD | UPLOAD\_FAILED

### statusMessage

The status message for a read set. It provides more detail as to why the read set has a status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]+`

### subjectId

The read set's subject ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]+`

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetReference

Gets a reference file.

## Request Syntax

```
GET /referencestore/referenceStoreId/reference/id?file=file&partNumber=partNumber  
HTTP/1.1  
Range: range
```

## URI Request Parameters

The request uses the following URI parameters.

### file

The file to retrieve.

Valid Values: SOURCE | INDEX

### id

The reference's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### partNumber

The part number to retrieve.

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: Yes

### range

The range to retrieve.

Length Constraints: Minimum length of 1. Maximum length of 127.



Pattern: `[\p{N}|\p{P}]+`

### referenceStoreId

The reference's store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
payload
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response returns the following as the HTTP body.

### payload

The reference file payload.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

## **RangeNotSatisfiableException**

The ranges specified in the request are not valid.

HTTP Status Code: 416

## **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

## **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

## **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetReferenceImportJob

Gets information about a reference import job.

## Request Syntax

```
GET /referencestore/referenceStoreId/importjob/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The job's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

### referenceStoreId

The job's reference store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "completionTime": "string",
  "creationTime": "string",
  "id": "string",
  "referenceStoreId": "string",
  "roleArn": "string",
  "sources": [
    {
      "description": "string",
      "name": "string",
      "sourceFile": "string",
      "status": "string",
      "statusMessage": "string",
      "tags": {
        "string" : "string"
      }
    }
  ],
  "status": "string",
  "statusMessage": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### completionTime

When the job completed.

Type: Timestamp

### creationTime

When the job was created.

Type: Timestamp

### id

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

### referenceStoreId

The job's reference store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

### roleArn

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:.\*

### sources

The job's source files.

Type: Array of [ImportReferenceSourceItem](#) objects

### status

The job's status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED\_WITH\_FAILURES

### statusMessage

The job's status message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: [\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetReferenceMetadata

Gets information about a genome reference's metadata.

## Request Syntax

```
GET /referencestore/referenceStoreId/reference/id/metadata HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The reference's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### referenceStoreId

The reference's reference store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "arn": "string",
  "creationTime": "string",
  "description": "string",
  "files": {
    "index": {
      "contentLength": number,
      "partSize": number,
      "s3Access": {
        "s3Uri": "string"
      },
      "totalParts": number
    },
    "source": {
      "contentLength": number,
      "partSize": number,
      "s3Access": {
        "s3Uri": "string"
      },
      "totalParts": number
    }
  },
  "id": "string",
  "md5": "string",
  "name": "string",
  "referenceStoreId": "string",
  "status": "string",
  "updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### arn

The reference's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn: . +`

### creationTime

When the reference was created.

Type: Timestamp

### description

The reference's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}] +`

### files

The reference's files.

Type: [ReferenceFiles](#) object

### id

The reference's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9] +`

### md5

The reference's MD5 checksum.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}|\p{N}] +`

### name

The reference's name.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### referenceStoreId

The reference's reference store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

### status

The reference's status.

Type: String

Valid Values: ACTIVE | DELETING | DELETED

### updateTime

When the reference was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

## RequestTimeoutException

The request timed out.

HTTP Status Code: 408

## ResourceNotFoundException

The target resource was not found in the current Region.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetReferenceStore

Gets information about a reference store.

## Request Syntax

```
GET /referencestore/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The store's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{  
  "arn": "string",  
  "creationTime": "string",  
  "description": "string",  
  "id": "string",  
  "name": "string",  
  "sseConfig": {  
    "keyArn": "string",  
    "type": "string"  
  }  
}
```

```
}  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### arn

The store's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn: .+`

### creationTime

When the store was created.

Type: Timestamp

### description

The store's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### id

The store's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

## name

The store's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

## sseConfig

The store's server-side encryption (SSE) settings.

Type: [SseConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.



HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetRun

Gets information about a workflow run.

If a workflow is shared with you, you cannot export information about the run.

## Request Syntax

```
GET /run/id?export=export HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### export

The run's export format.

Array Members: Minimum number of 0 items. Maximum number of 32 items.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: DEFINITION

### id

The run's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "accelerators": "string",
  "arn": "string",
  "creationTime": "string",
  "definition": "string",
  "digest": "string",
  "failureReason": "string",
  "id": "string",
  "logLevel": "string",
  "logLocation": {
    "engineLogStream": "string",
    "runLogStream": "string"
  },
  "name": "string",
  "outputUri": "string",
  "parameters": JSON value,
  "priority": number,
  "resourceDigests": {
    "string" : "string"
  },
  "retentionMode": "string",
  "roleArn": "string",
  "runGroupId": "string",
  "runId": "string",
  "runOutputUri": "string",
  "startedBy": "string",
  "startTime": "string",
  "status": "string",
  "statusMessage": "string",
  "stopTime": "string",
  "storageCapacity": number,
  "storageType": "string",
  "tags": {
    "string" : "string"
  },
  "uuid": "string",
  "workflowId": "string",
  "workflowOwnerId": "string",
  "workflowType": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### accelerators

The computational accelerator used to run the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: GPU

### arn

The run's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: arn: . +

### creationTime

When the run was created.

Type: Timestamp

### definition

The run's definition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}] +

### digest

The run's digest.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

### failureReason

The reason a run has failed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### id

The run's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

### logLevel

The run's log level.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: OFF | FATAL | ERROR | ALL

### logLocation

The location of the run log.

Type: [RunLogLocation](#) object

### name

The run's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]`+

### outputUri

The run's output URI.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 750.

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]`+

### parameters

The run's parameters.

Type: JSON value

### priority

The run's priority.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

### resourceDigests

The run's resource digests.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]`+

Value Length Constraints: Minimum length of 0. Maximum length of 64.

Value Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]`+

### retentionMode

The run's retention mode.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: RETAIN | REMOVE

### roleArn

The run's service role ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: arn:.\*+

### runGroupID

The run's group ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

### runID

The run's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

### runOutputUri

The destination for workflow outputs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 750.

Pattern: [\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]+

### startedBy

Who started the run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

### startTime

When the run started.

Type: Timestamp

### status

The run's status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: PENDING | STARTING | RUNNING | STOPPING | COMPLETED | DELETED  
| CANCELLED | FAILED

### statusMessage

The run's status message.

Type: String

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### stopTime

The run's stop time.

Type: Timestamp

### storageCapacity

The run's storage capacity in gibibytes. For dynamic storage, after the run has completed, this value is the maximum amount of storage used during the run.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

### storageType

The run's storage type.

Type: String



Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: STATIC | DYNAMIC

### tags

The run's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

### uuid

The universally unique identifier for a run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### workflowId

The run's workflow ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

### workflowOwnerId

The ID of the workflow owner.

Type: String

Pattern: `[0-9]{12}`

### workflowType

The run's workflow type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: PRIVATE | READY2RUN

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### InternalServerError

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### RequestTimeoutException

The request timed out.

HTTP Status Code: 408

### ResourceNotFoundException

The target resource was not found in the current Region.

HTTP Status Code: 404

### ServiceQuotaExceededException

The request exceeds a service quota.

HTTP Status Code: 402

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetRunGroup

Gets information about a workflow run group.

## Request Syntax

```
GET /runGroup/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The group's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{  
  "arn": "string",  
  "creationTime": "string",  
  "id": "string",  
  "maxCpus": number,  
  "maxDuration": number,  
  "maxGpus": number,  
  "maxRuns": number,  
  "name": "string",
```

```
"tags": {  
  "string" : "string"  
}  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### arn

The group's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: arn: .+

### creationTime

When the group was created.

Type: Timestamp

### id

The group's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

### maxCpus

The group's maximum number of CPUs to use.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

### maxDuration

The group's maximum run time in minutes.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

### maxGpus

The maximum GPUs that can be used by a run group.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

### maxRuns

The maximum number of concurrent runs for the group.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

### name

The group's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### tags

The group's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetRunTask

Gets information about a workflow run task.

## Request Syntax

```
GET /run/id/task/taskId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The workflow run ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

Required: Yes

### taskId

The task's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "cpus": number,
  "creationTime": "string",
  "failureReason": "string",
  "gpus": number,
  "instanceType": "string",
  "logStream": "string",
  "memory": number,
  "name": "string",
  "startTime": "string",
  "status": "string",
  "statusMessage": "string",
  "stopTime": "string",
  "taskId": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### cpus

The task's CPU usage.

Type: Integer

Valid Range: Minimum value of 1.

### creationTime

When the task was created.

Type: Timestamp

### failureReason

The reason a task has failed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]`+

### gpus

The number of Graphics Processing Units (GPU) specified in the task.

Type: Integer

Valid Range: Minimum value of 0.

### instanceType

The instance type for a task.

Type: String

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]`+

### logStream

The task's log stream.

Type: String

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]`+

### memory

The task's memory use in gigabytes.

Type: Integer

Valid Range: Minimum value of 1.

### name

The task's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

### startTime

The task's start time.

Type: Timestamp

## status

The task's status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: PENDING | STARTING | RUNNING | STOPPING | COMPLETED | CANCELLED | FAILED

## statusMessage

The task's status message.

Type: String

Pattern: [\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+

## stopTime

The task's stop time.

Type: Timestamp

## taskId

The task's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetSequenceStore

Gets information about a sequence store.

## Request Syntax

```
GET /sequencestore/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The store's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "arn": "string",
  "creationTime": "string",
  "description": "string",
  "eTagAlgorithmFamily": "string",
  "fallbackLocation": "string",
  "id": "string",
  "name": "string",
  "s3Access": {
```

```
    "s3AccessPointArn": "string",
    "s3Uri": "string"
  },
  "sseConfig": {
    "keyArn": "string",
    "type": "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### arn

The store's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: arn: .+

### creationTime

When the store was created.

Type: Timestamp

### description

The store's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+

### eTagAlgorithmFamily

The algorithm family of the ETag.

Type: String



Valid Values: MD5up | SHA256up | SHA512up

### fallbackLocation

An S3 location that is used to store files that have failed a direct upload.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/?((.{1,1024})/)?`

### id

The store's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

### name

The store's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### s3Access

The S3 metadata of a sequence store, including the ARN and S3 URI of the S3 bucket.

Type: [SequenceStoreS3Access](#) object

### sseConfig

The store's server-side encryption (SSE) settings.

Type: [SseConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

## **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

## **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

## **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetShare

Retrieves the metadata for the specified resource share.

## Request Syntax

```
GET /share/shareId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### shareId

The ID of the share.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "share": {
    "creationTime": "string",
    "ownerId": "string",
    "principalSubscriber": "string",
    "resourceArn": "string",
    "resourceId": "string",
    "shareId": "string",
    "shareName": "string",
    "status": "string",
    "statusMessage": "string",
    "updateTime": "string"
  }
}
```

```
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### share

A resource share details object. The object includes the status, the resourceArn, and ownerId.

Type: [ShareDetails](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetVariantImportJob

Gets information about a variant import job.

## Request Syntax

```
GET /import/variant/jobId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### jobId

The job's ID.

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "annotationFields": {
    "string" : "string"
  },
  "completionTime": "string",
  "creationTime": "string",
  "destinationName": "string",
  "id": "string",
  "items": [
    {
      "jobStatus": "string",
```

```
        "source": "string",
        "statusMessage": "string"
    }
],
"roleArn": "string",
"runLeftNormalization": boolean,
"status": "string",
"statusMessage": "string",
"updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### annotationFields

The annotation schema generated by the parsed annotation data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 21.

Value Length Constraints: Minimum length of 1. Maximum length of 21.

### completionTime

When the job completed.

Type: Timestamp

### creationTime

When the job was created.

Type: Timestamp

### destinationName

The job's destination variant store.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.



Pattern: ([a-z]){1}([a-z0-9\_]){2,254}

### id

The job's ID.

Type: String

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

### items

The job's items.

Type: Array of [VariantImportItemDetail](#) objects

Array Members: Minimum number of 1 item.

### roleArn

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:([^\: ]\*):([^\: ]\*):([^\: ]\*):([0-9]{12}):([^\: ]\*)

### runLeftNormalization

The job's left normalization setting.

Type: Boolean

### status

The job's status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLED | COMPLETED | FAILED | COMPLETED\_WITH\_FAILURES

### statusMessage

The job's status message.

Type: String

## updateTime

When the job was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetVariantStore

Gets information about a variant store.

## Request Syntax

```
GET /variantStore/name HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### name

The store's name.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "creationTime": "string",
  "description": "string",
  "id": "string",
  "name": "string",
  "reference": { ... },
  "sseConfig": {
    "keyArn": "string",
    "type": "string"
  },
  "status": "string",
  "statusMessage": "string",
  "storeArn": "string",
```

```
"storeSizeBytes": number,
"tags": {
  "string" : "string"
},
"updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### creationTime

When the store was created.

Type: Timestamp

### description

The store's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

### id

The store's ID.

Type: String

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

### name

The store's name.

Type: String

### reference

The store's genome reference.

Type: [ReferenceItem](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### sseConfig

The store's server-side encryption (SSE) settings.

Type: [SseConfig](#) object

### status

The store's status.

Type: String

Valid Values: CREATING | UPDATING | DELETING | ACTIVE | FAILED

### statusMessage

The store's status message.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

### storeArn

The store's ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

### storeSizeBytes

The store's size in bytes.

Type: Long

### tags

The store's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

## updateTime

When the store was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetWorkflow

Gets information about a workflow.

If a workflow is shared with you, you cannot export the workflow.

## Request Syntax

```
GET /workflow/id?export=export&type=type&workflowOwnerId=workflowOwnerId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### export

The export format for the workflow.

Array Members: Minimum number of 0 items. Maximum number of 32 items.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: DEFINITION

### id

The workflow's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

Required: Yes

### type

The workflow's type.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: PRIVATE | READY2RUN

## workflowOwnerId

The ID of the workflow owner.

Pattern: [0-9]{12}

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "accelerators": "string",
  "arn": "string",
  "creationTime": "string",
  "definition": "string",
  "description": "string",
  "digest": "string",
  "engine": "string",
  "id": "string",
  "main": "string",
  "metadata": {
    "string" : "string"
  },
  "name": "string",
  "parameterTemplate": {
    "string" : {
      "description": "string",
      "optional": boolean
    }
  },
  "status": "string",
  "statusMessage": "string",
  "storageCapacity": number,
  "tags": {
    "string" : "string"
  },
  "type": "string"
```

```
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### accelerators

The computational accelerator specified to run the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: GPU

### arn

The workflow's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: arn: . +

### creationTime

When the workflow was created.

Type: Timestamp

### definition

The workflow's definition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}] +

### description

The workflow's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### digest

The workflow's digest.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

### engine

The workflow's engine.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: WDL | NEXTFLOW | CWL

### id

The workflow's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

### main

The path of the main definition file for the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### metadata

Gets metadata for workflow.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

### name

The workflow's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### parameterTemplate

The workflow's parameter template.

Type: String to [WorkflowParameter](#) object map

Map Entries: Maximum number of 1000 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### status

The workflow's status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: CREATING | ACTIVE | UPDATING | DELETED | FAILED | INACTIVE

### statusMessage

The workflow's status message.

Type: String

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

## storageCapacity

The workflow's default run storage capacity in gibibytes.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

## tags

The workflow's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

## type

The workflow's type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: PRIVATE | READY2RUN

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

## **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

## **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

## **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

## **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

## **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# ListAnnotationImportJobs

Retrieves a list of annotation import jobs.

## Request Syntax

```
POST /import/annotations?maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json
```

```
{
  "filter": {
    "status": "string",
    "storeName": "string"
  },
  "ids": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of jobs to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

Specifies the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10000.

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: [ListAnnotationImportJobsFilter](#) object

Required: No

## ids

IDs of annotation import jobs to retrieve.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Length Constraints: Minimum length of 1. Maximum length of 50.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "annotationImportJobs": [
    {
      "annotationFields": {
        "string" : "string"
      },
      "completionTime": "string",
      "creationTime": "string",
      "destinationName": "string",
      "id": "string",
      "roleArn": "string",
      "runLeftNormalization": boolean,
      "status": "string",
      "updateTime": "string",
      "versionName": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [annotationImportJobs](#)

A list of jobs.

Type: Array of [AnnotationImportJobItem](#) objects

### [nextToken](#)

Specifies the pagination token from a previous request to retrieve the next page of results.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListAnnotationStores

Retrieves a list of annotation stores.

## Request Syntax

```
POST /annotationStores?maxResults=maxResults&nextToken=nextToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "filter": {  
    "status": "string"  
  },  
  "ids": [ "string" ]  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of stores to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10000.

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: [ListAnnotationStoresFilter](#) object

Required: No

## ids

IDs of stores to list.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Length Constraints: Minimum length of 1. Maximum length of 50.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "annotationStores": [
    {
      "creationTime": "string",
      "description": "string",
      "id": "string",
      "name": "string",
      "reference": { ... },
      "sseConfig": {
        "keyArn": "string",
        "type": "string"
      },
      "status": "string",
      "statusMessage": "string",
      "storeArn": "string",
      "storeFormat": "string",
      "storeSizeBytes": number,
      "updateTime": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### annotationStores

A list of stores.

Type: Array of [AnnotationStoreItem](#) objects

### nextToken

A pagination token that's included if more results are available.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# ListAnnotationStoreVersions

Lists the versions of an annotation store.

## Request Syntax

```
POST /annotationStore/name/versions?maxResults=maxResults&nextToken=nextToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "filter": {  
    "status": "string"  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of annotation store versions to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

### name

The name of an annotation store.

Required: Yes

### nextToken

Specifies the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10000.

## Request Body

The request accepts the following data in JSON format.

## filter

A filter to apply to the list of annotation store versions.

Type: [ListAnnotationStoreVersionsFilter](#) object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "annotationStoreVersions": [
    {
      "creationTime": "string",
      "description": "string",
      "id": "string",
      "name": "string",
      "status": "string",
      "statusMessage": "string",
      "storeId": "string",
      "updateTime": "string",
      "versionArn": "string",
      "versionName": "string",
      "versionSizeBytes": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [annotationStoreVersions](#)

Lists all versions of an annotation store.

Type: Array of [AnnotationStoreVersionItem](#) objects

### [nextToken](#)

Specifies the pagination token from a previous request to retrieve the next page of results.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListMultipartReadSetUploads

Lists multipart read set uploads and for in progress uploads. Once the upload is completed, a read set is created and the upload will no longer be returned in the response.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/uploads?maxResults=maxResults&nextToken=nextToken
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of multipart uploads returned in a page.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

Next token returned in the response of a previous ListMultipartReadSetUploads call. Used to get the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### sequenceStoreId

The Sequence Store ID used for the multipart uploads.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "uploads": [
    {
      "creationTime": "string",
      "description": "string",
      "generatedFrom": "string",
      "name": "string",
      "referenceArn": "string",
      "sampleId": "string",
      "sequenceStoreId": "string",
      "sourceFileType": "string",
      "subjectId": "string",
      "tags": {
        "string" : "string"
      },
      "uploadId": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

Next token returned in the response of a previous ListMultipartReadSetUploads call. Used to get the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

## uploads

An array of multipart uploads.

Type: Array of [MultipartReadSetUploadListItem](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **NotSupportedOperationException**

The operation is not supported by Amazon Omics, or the API does not exist.

HTTP Status Code: 405

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# ListReadSetActivationJobs

Retrieves a list of read set activation jobs.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/activationjobs?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "filter": {  
    "createdAfter": "string",  
    "createdBefore": "string",  
    "status": "string"  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### [maxResults](#)

The maximum number of read set activation jobs to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

### [nextToken](#)

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### [sequenceStoreId](#)

The read set's sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: [ActivateReadSetFilter](#) object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "activationJobs": [
    {
      "completionTime": "string",
      "creationTime": "string",
      "id": "string",
      "sequenceStoreId": "string",
      "status": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### activationJobs

A list of jobs.

Type: Array of [ActivateReadSetJobItem](#) objects

### nextToken

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]+`

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListReadSetExportJobs

Retrieves a list of read set export jobs.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/exportjobs?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "filter": {  
    "createdAfter": "string",  
    "createdBefore": "string",  
    "status": "string"  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of jobs to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### sequenceStoreId

The jobs' sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: [ExportReadSetFilter](#) object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "exportJobs": [
    {
      "completionTime": "string",
      "creationTime": "string",
      "destination": "string",
      "id": "string",
      "sequenceStoreId": "string",
      "status": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### exportJobs

A list of jobs.

Type: Array of [ExportReadSetJobDetail](#) objects

## nextToken

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

---

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# ListReadSetImportJobs

Retrieves a list of read set import jobs.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/importjobs?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "filter": {  
    "createdAfter": "string",  
    "createdBefore": "string",  
    "status": "string"  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of jobs to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern:  $[\backslash p\{L\} | \backslash p\{M\} | \backslash p\{Z\} | \backslash p\{S\} | \backslash p\{N\} | \backslash p\{P\}]^+$

### sequenceStoreId

The jobs' sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern:  $[0-9]^+$

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: [ImportReadSetFilter](#) object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "importJobs": [
    {
      "completionTime": "string",
      "creationTime": "string",
      "id": "string",
      "roleArn": "string",
      "sequenceStoreId": "string",
      "status": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### importJobs

A list of jobs.

Type: Array of [ImportReadSetJobItem](#) objects

## nextToken

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListReadSets

Retrieves a list of read sets.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/readsets?maxResults=maxResults&nextToken=nextToken
HTTP/1.1
Content-type: application/json

{
  "filter": {
    "createdAfter": "string",
    "createdBefore": "string",
    "creationType": "string",
    "generatedFrom": "string",
    "name": "string",
    "referenceArn": "string",
    "sampleId": "string",
    "status": "string",
    "subjectId": "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of read sets to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

## sequenceStoreId

The jobs' sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: [ReadSetFilter](#) object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "readSets": [
    {
      "arn": "string",
      "creationTime": "string",
      "creationType": "string",
      "description": "string",
      "etag": {
        "algorithm": "string",
        "source1": "string",
        "source2": "string"
      },
      "fileType": "string",
```

```
    "id": "string",
    "name": "string",
    "referenceArn": "string",
    "sampleId": "string",
    "sequenceInformation": {
      "alignment": "string",
      "generatedFrom": "string",
      "totalBaseCount": number,
      "totalReadCount": number
    },
    "sequenceStoreId": "string",
    "status": "string",
    "statusMessage": "string",
    "subjectId": "string"
  }
]
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### readSets

A list of read sets.

Type: Array of [ReadSetListItem](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

## **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

## **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

## **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)



- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListReadSetUploadParts

This operation will list all parts in a requested multipart upload for a sequence store.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/upload/uploadId/parts?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "filter": {  
    "createdAfter": "string",  
    "createdBefore": "string"  
  },  
  "partSource": "string"  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of read set upload parts returned in a page.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

Next token returned in the response of a previous ListReadSetUploadPartsRequest call. Used to get the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### sequenceStoreId

The Sequence Store ID used for the multipart uploads.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

### uploadId

The ID for the initiated multipart upload.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### filter

Attributes used to filter for a specific subset of read set part uploads.

Type: [ReadSetUploadPartListFilter](#) object

Required: No

### partSource

The source file for the upload part.

Type: String

Valid Values: SOURCE1 | SOURCE2

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "parts": [
    {
```

```
    "checksum": "string",
    "creationTime": "string",
    "lastUpdatedTime": "string",
    "partNumber": number,
    "partSize": number,
    "partSource": "string"
  }
]
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

Next token returned in the response of a previous ListReadSetUploadParts call. Used to get the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### parts

An array of upload parts.

Type: Array of [ReadSetUploadPartListItem](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**NotSupportedOperationException**

The operation is not supported by Amazon Omics, or the API does not exist.

HTTP Status Code: 405

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListReferenceImportJobs

Retrieves a list of reference import jobs.

## Request Syntax

```
POST /referencestore/referenceStoreId/importjobs?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "filter": {  
    "createdAfter": "string",  
    "createdBefore": "string",  
    "status": "string"  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of jobs to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern:  $[\backslash p\{L\} | \backslash p\{M\} | \backslash p\{Z\} | \backslash p\{S\} | \backslash p\{N\} | \backslash p\{P\}]^+$

### referenceStoreId

The job's reference store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern:  $[0-9]^+$

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: [ImportReferenceFilter](#) object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "importJobs": [
    {
      "completionTime": "string",
      "creationTime": "string",
      "id": "string",
      "referenceStoreId": "string",
      "roleArn": "string",
      "status": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### importJobs

A list of jobs.

Type: Array of [ImportReferenceJobItem](#) objects



## nextToken

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListReferences

Retrieves a list of references.

## Request Syntax

```
POST /referencestore/referenceStoreId/references?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "filter": {  
    "createdAfter": "string",  
    "createdBefore": "string",  
    "md5": "string",  
    "name": "string"  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of references to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### referenceStoreId

The references' reference store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: [ReferenceFilter](#) object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "references": [
    {
      "arn": "string",
      "creationTime": "string",
      "description": "string",
      "id": "string",
      "md5": "string",
      "name": "string",
      "referenceStoreId": "string",
      "status": "string",
      "updateTime": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]+`

### references

A list of references.

Type: Array of [ReferenceListItem](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListReferenceStores

Retrieves a list of reference stores.

## Request Syntax

```
POST /referencestores?maxResults=maxResults&nextToken=nextToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "filter": {  
    "createdAfter": "string",  
    "createdBefore": "string",  
    "name": "string"  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of stores to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: [ReferenceStoreFilter](#) object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "referenceStores": [
    {
      "arn": "string",
      "creationTime": "string",
      "description": "string",
      "id": "string",
      "name": "string",
      "sseConfig": {
        "keyArn": "string",
        "type": "string"
      }
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [nextToken](#)

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`



## [referenceStores](#)

A list of reference stores.

Type: Array of [ReferenceStoreDetail](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListRunGroups

Retrieves a list of run groups.

## Request Syntax

```
GET /runGroup?maxResults=maxResults&name=name&startingToken=startingToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of run groups to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

### name

The run groups' name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### startingToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "items": [
    {
      "arn": "string",
      "creationTime": "string",
      "id": "string",
      "maxCpus": number,
      "maxDuration": number,
      "maxGpus": number,
      "maxRuns": number,
      "name": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### items

A list of groups.

Type: Array of [RunGroupListItem](#) objects

### nextToken

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListRuns

Retrieves a list of runs.

## Request Syntax

```
GET /run?  
maxResults=maxResults&name=name&runGroupId=runGroupId&startingToken=startingToken&status=status  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of runs to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

### name

Filter the list by run name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### runGroupId

Filter the list by run group ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

### startingToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

## status

The status of a run.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: PENDING | STARTING | RUNNING | STOPPING | COMPLETED | DELETED  
| CANCELLED | FAILED

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "items": [
    {
      "arn": "string",
      "creationTime": "string",
      "id": "string",
      "name": "string",
      "priority": number,
      "startTime": "string",
      "status": "string",
      "stopTime": "string",
      "storageCapacity": number,
      "storageType": "string",
      "workflowId": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.



## items

A list of runs.

Type: Array of [RunListItem](#) objects

## nextToken

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListRunTasks

Retrieves a list of tasks for a run.

## Request Syntax

```
GET /run/id/task?maxResults=maxResults&startingToken=startingToken&status=status  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The run's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

Required: Yes

### maxResults

The maximum number of run tasks to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

### startingToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+

### status

Filter the list by status.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: PENDING | STARTING | RUNNING | STOPPING | COMPLETED | CANCELLED | FAILED

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "items": [
    {
      "cpus": number,
      "creationTime": "string",
      "gpus": number,
      "instanceType": "string",
      "memory": number,
      "name": "string",
      "startTime": "string",
      "status": "string",
      "stopTime": "string",
      "taskId": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### items

A list of tasks.

Type: Array of [TaskListItem](#) objects

## nextToken

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListSequenceStores

Retrieves a list of sequence stores.

## Request Syntax

```
POST /sequencestores?maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json
```

```
{
  "filter": {
    "createdAfter": "string",
    "createdBefore": "string",
    "name": "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of stores to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: [SequenceStoreFilter](#) object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "sequenceStores": [
    {
      "arn": "string",
      "creationTime": "string",
      "description": "string",
      "eTagAlgorithmFamily": "string",
      "fallbackLocation": "string",
      "id": "string",
      "name": "string",
      "sseConfig": {
        "keyArn": "string",
        "type": "string"
      }
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [nextToken](#)

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.



Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]+`

## [sequenceStores](#)

A list of sequence stores.

Type: Array of [SequenceStoreDetail](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListShares

Retrieves the resource shares associated with an account. Use the filter parameter to retrieve a specific subset of the shares.

## Request Syntax

```
POST /shares?maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json

{
  "filter": {
    "resourceArns": [ "string" ],
    "status": [ "string" ],
    "type": [ "string" ]
  },
  "resourceOwner": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### [maxResults](#)

The maximum number of shares to return in one page of results.

### [nextToken](#)

Next token returned in the response of a previous ListReadSetUploadPartsRequest call. Used to get the next page of results.

## Request Body

The request accepts the following data in JSON format.

### [filter](#)

Attributes that you use to filter for a specific subset of resource shares.

Type: [Filter](#) object

Required: No

### resourceOwner

The account that owns the resource shares.

Type: String

Valid Values: SELF | OTHER

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "shares": [
    {
      "creationTime": "string",
      "ownerId": "string",
      "principalSubscriber": "string",
      "resourceArn": "string",
      "resourceId": "string",
      "shareId": "string",
      "shareName": "string",
      "status": "string",
      "statusMessage": "string",
      "updateTime": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## nextToken

Next token returned in the response of a previous ListSharesResponse call. Used to get the next page of results.

Type: String

## shares

The shares available and their metadata details.

Type: Array of [ShareDetails](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### **InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListTagsForResource

Retrieves a list of tags for a resource.

## Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The resource's ARN.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: arn: .+

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "tags": {
    "string" : "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## tags

A list of tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404



## ServiceQuotaExceededException

The request exceeds a service quota.

HTTP Status Code: 402

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListVariantImportJobs

Retrieves a list of variant import jobs.

## Request Syntax

```
POST /import/variants?maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json
```

```
{
  "filter": {
    "status": "string",
    "storeName": "string"
  },
  "ids": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of import jobs to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10000.

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: [ListVariantImportJobsFilter](#) object

Required: No

## ids

A list of job IDs.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Length Constraints: Minimum length of 1. Maximum length of 50.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "variantImportJobs": [
    {
      "annotationFields": {
        "string" : "string"
      },
      "completionTime": "string",
      "creationTime": "string",
      "destinationName": "string",
      "id": "string",
      "roleArn": "string",
      "runLeftNormalization": boolean,
      "status": "string",
      "updateTime": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## nextToken

A pagination token that's included if more results are available.

Type: String

## variantImportJobs

A list of jobs.

Type: Array of [VariantImportJobItem](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListVariantStores

Retrieves a list of variant stores.

## Request Syntax

```
POST /variantStores?maxResults=maxResults&nextToken=nextToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "filter": {  
    "status": "string"  
  },  
  "ids": [ "string" ]  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of stores to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10000.

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: [ListVariantStoresFilter](#) object

Required: No

## ids

A list of store IDs.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Length Constraints: Minimum length of 1. Maximum length of 50.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "variantStores": [
    {
      "creationTime": "string",
      "description": "string",
      "id": "string",
      "name": "string",
      "reference": { ... },
      "sseConfig": {
        "keyArn": "string",
        "type": "string"
      },
      "status": "string",
      "statusMessage": "string",
      "storeArn": "string",
      "storeSizeBytes": number,
      "updateTime": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

A pagination token that's included if more results are available.

Type: String

### variantStores

A list of variant stores.

Type: Array of [VariantStoreItem](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.



HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListWorkflows

Retrieves a list of workflows.

## Request Syntax

```
GET /workflow?maxResults=maxResults&name=name&startingToken=startingToken&type=type  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of workflows to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

### name

Filter the list by workflow name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### startingToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

### type

Filter the list by workflow type.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: PRIVATE | READY2RUN

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "items": [
    {
      "arn": "string",
      "creationTime": "string",
      "digest": "string",
      "id": "string",
      "metadata": {
        "string" : "string"
      },
      "name": "string",
      "status": "string",
      "type": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### items

A list of workflow items.

Type: Array of [WorkflowListItem](#) objects

### nextToken

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### InternalServerErrorException

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### RequestTimeoutException

The request timed out.

HTTP Status Code: 408

### ResourceNotFoundException

The target resource was not found in the current Region.

HTTP Status Code: 404

### ServiceQuotaExceededException

The request exceeds a service quota.

HTTP Status Code: 402

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartAnnotationImportJob

Starts an annotation import job.

## Request Syntax

```
POST /import/annotation HTTP/1.1
Content-type: application/json

{
  "annotationFields": {
    "string" : "string"
  },
  "destinationName": "string",
  "formatOptions": { ... },
  "items": [
    {
      "source": "string"
    }
  ],
  "roleArn": "string",
  "runLeftNormalization": boolean,
  "versionName": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### annotationFields

The annotation schema generated by the parsed annotation data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 21.

Value Length Constraints: Minimum length of 1. Maximum length of 21.

Required: No

### destinationName

A destination annotation store for the job.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: (`[a-z]`){1}(`[a-z0-9_]`){2,254}

Required: Yes

### formatOptions

Formatting options for the annotation file.

Type: [FormatOptions](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### items

Items to import.

Type: Array of [AnnotationImportItemSource](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

### roleArn

A service role for the job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

Required: Yes

## runLeftNormalization

The job's left normalization setting.

Type: Boolean

Required: No

## versionName

The name of the annotation store version.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: ([a-z]){1}([a-z0-9\_]){2,254}

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "jobId": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### jobId

The job's ID.

Type: String

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}



## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartReadSetActivationJob

Activates an archived read set. To reduce storage charges, Amazon Omics archives unused read sets after 30 days.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/activationjob HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "clientToken": "string",
  "sources": [
    {
      "readSetId": "string"
    }
  ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### sequenceStoreId

The read set's sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### clientToken

To ensure that jobs don't run multiple times, specify a unique token for each job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### sources

The job's source files.

Type: Array of [StartReadSetActivationJobSourceItem](#) objects

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "creationTime": "string",
  "id": "string",
  "sequenceStoreId": "string",
  "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### creationTime

When the job was created.

Type: Timestamp

## id

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

## sequenceStoreId

The read set's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

## status

The job's status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED\_WITH\_FAILURES

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

## **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

## **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

## **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

## **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartReadSetExportJob

Exports a read set to Amazon S3.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/exportjob HTTP/1.1  
Content-type: application/json
```

```
{  
  "clientToken": "string",  
  "destination": "string",  
  "roleArn": "string",  
  "sources": [  
    {  
      "readSetId": "string"  
    }  
  ]  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### sequenceStoreId

The read set's sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### clientToken

To ensure that jobs don't run multiple times, specify a unique token for each job.



Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### destination

A location for exported files in Amazon S3.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/?((.{1,1024})/)?`

Required: Yes

### roleArn

A service role for the job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

Required: Yes

### sources

The job's source files.

Type: Array of [ExportReadSet](#) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "creationTime": "string",
  "destination": "string",
  "id": "string",
  "sequenceStoreId": "string",
  "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### creationTime

When the job was created.

Type: Timestamp

### destination

The job's output location.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-]{1,61}[a-z0-9])/?((.{1,1024})/)?`

### id

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

### sequenceStoreId

The read set's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

### status

The job's status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED\_WITH\_FAILURES

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartReadSetImportJob

Starts a read set import job.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/importjob HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "clientToken": "string",
  "roleArn": "string",
  "sources": [
    {
      "description": "string",
      "generatedFrom": "string",
      "name": "string",
      "referenceArn": "string",
      "sampleId": "string",
      "sourceFiles": {
        "source1": "string",
        "source2": "string"
      },
      "sourceFileType": "string",
      "subjectId": "string",
      "tags": {
        "string" : "string"
      }
    }
  ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### sequenceStoreId

The read set's sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### clientToken

To ensure that jobs don't run multiple times, specify a unique token for each job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### roleArn

A service role for the job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

Required: Yes

### sources

The job's source files.

Type: Array of [StartReadSetImportJobSourceItem](#) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "creationTime": "string",
  "id": "string",
  "roleArn": "string",
  "sequenceStoreId": "string",
  "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### creationTime

When the job was created.

Type: Timestamp

### id

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

### roleArn

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:.\*

### sequenceStoreId

The read set's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

### status

The job's status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED\_WITH\_FAILURES

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.



HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartReferenceImportJob

Starts a reference import job.

## Request Syntax

```
POST /referencestore/referenceStoreId/importjob HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "clientToken": "string",
  "roleArn": "string",
  "sources": [
    {
      "description": "string",
      "name": "string",
      "sourceFile": "string",
      "tags": {
        "string" : "string"
      }
    }
  ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### referenceStoreId

The job's reference store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## clientToken

To ensure that jobs don't run multiple times, specify a unique token for each job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

## roleArn

A service role for the job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

Required: Yes

## sources

The job's source files.

Type: Array of [StartReferenceImportJobSourceItem](#) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "creationTime": "string",
  "id": "string",
  "referenceStoreId": "string",
```

```
"roleArn": "string",  
"status": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### creationTime

When the job was created.

Type: Timestamp

### id

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

### referenceStoreId

The job's reference store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

### roleArn

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:.\*

## status

The job's status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED\_WITH\_FAILURES

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartRun

Starts a workflow run. To duplicate a run, specify the run's ID and a role ARN. The remaining parameters are copied from the previous run.

StartRun will not support re-run for a workflow that is shared with you.

The total number of runs in your account is subject to a quota per Region. To avoid needing to delete runs manually, you can set the retention mode to REMOVE. Runs with this setting are deleted automatically when the run quota is exceeded.

By default, the run uses STATIC storage. For STATIC storage, set the storageCapacity field. You can set the storage type to DYNAMIC. You do not set storageCapacity, because HealthOmics dynamically scales the storage up or down as required. For more information about static and dynamic storage, see [Running workflows](#) in the *AWS HealthOmics User Guide*.

## Request Syntax

```
POST /run HTTP/1.1
Content-type: application/json
```

```
{
  "logLevel": "string",
  "name": "string",
  "outputUri": "string",
  "parameters": JSON value,
  "priority": number,
  "requestId": "string",
  "retentionMode": "string",
  "roleArn": "string",
  "runGroupId": "string",
  "runId": "string",
  "storageCapacity": number,
  "storageType": "string",
  "tags": {
    "string" : "string"
  },
  "workflowId": "string",
  "workflowOwnerId": "string",
  "workflowType": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### logLevel

A log level for the run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: OFF | FATAL | ERROR | ALL

Required: No

### name

A name for the run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### outputUri

An output URI for the run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 750.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No



## parameters

Parameters for the run.

Type: JSON value

Required: No

## priority

A priority for the run.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

Required: No

## requestId

To ensure that requests don't run multiple times, specify a unique ID for each request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: Yes

## retentionMode

The retention mode for the run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: RETAIN | REMOVE

Required: No

## roleArn

A service role for the run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn: . +`

Required: Yes

### runGroupId

The run's group ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

### runId

The ID of a run to duplicate.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

### storageCapacity

A storage capacity for the run in gibibytes. This field is not required if the storage type is dynamic (the system ignores any value that you enter).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

Required: No

### storageType

The run's storage type. By default, the run uses STATIC storage type, which allocates a fixed amount of storage. If you set the storage type to DYNAMIC, HealthOmics dynamically scales the storage up or down, based on file system utilization.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: STATIC | DYNAMIC

Required: No

### tags

Tags for the run.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

### workflowId

The run's workflow ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

Required: No

### workflowOwnerId

The ID of the workflow owner.

Type: String

Pattern: [0-9]{12}

Required: No

### workflowType

The run's workflow type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: PRIVATE | READY2RUN

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
  "arn": "string",
  "id": "string",
  "runOutputUri": "string",
  "status": "string",
  "tags": {
    "string" : "string"
  },
  "uuid": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

### arn

The run's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: arn: .+

### id

The run's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

### runOutputUri

The destination for workflow outputs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 750.

Pattern: [\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+

### status

The run's status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: PENDING | STARTING | RUNNING | STOPPING | COMPLETED | DELETED  
| CANCELLED | FAILED

### tags

The run's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

### uuid

The universally unique identifier for a run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartVariantImportJob

Starts a variant import job.

## Request Syntax

```
POST /import/variant HTTP/1.1
Content-type: application/json

{
  "annotationFields": {
    "string" : "string"
  },
  "destinationName": "string",
  "items": [
    {
      "source": "string"
    }
  ],
  "roleArn": "string",
  "runLeftNormalization": boolean
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### annotationFields

The annotation schema generated by the parsed annotation data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 21.

Value Length Constraints: Minimum length of 1. Maximum length of 21.

Required: No



## destinationName

The destination variant store for the job.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: (`[a-z]`){1}(`[a-z0-9_]`){2, 254}

Required: Yes

## items

Items to import.

Type: Array of [VariantImportItemSource](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

## roleArn

A service role for the job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

Required: Yes

## runLeftNormalization

The job's left normalization setting.

Type: Boolean

Required: No

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "jobId": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### jobId

The job's ID.

Type: String

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# TagResource

Tags a resource.

## Request Syntax

```
POST /tags/resourceArn HTTP/1.1  
Content-type: application/json
```

```
{  
  "tags": {  
    "string" : "string"  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The resource's ARN.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: arn: . +

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### tags

Tags for the resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: Yes

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### InternalServerError

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### RequestTimeoutException

The request timed out.

HTTP Status Code: 408

### ResourceNotFoundException

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UntagResource

Removes tags from a resource.

## Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The resource's ARN.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn: .+`

Required: Yes

### tagKeys

Keys of tags to remove.

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### InternalServerError

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### RequestTimeoutException

The request timed out.

HTTP Status Code: 408

### ResourceNotFoundException

The target resource was not found in the current Region.

HTTP Status Code: 404

### ServiceQuotaExceededException

The request exceeds a service quota.

HTTP Status Code: 402

### ThrottlingException

The request was denied due to request throttling.



HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateAnnotationStore

Updates an annotation store.

## Request Syntax

```
POST /annotationStore/name HTTP/1.1  
Content-type: application/json
```

```
{  
  "description": "string"  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### name

A name for the store.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### description

A description for the store.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "creationTime": "string",
  "description": "string",
  "id": "string",
  "name": "string",
  "reference": { ... },
  "status": "string",
  "storeFormat": "string",
  "storeOptions": { ... },
  "updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### creationTime

When the store was created.

Type: Timestamp

### description

The store's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

### id

The store's ID.

Type: String

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

### name

The store's name.

Type: String

### reference

The store's genome reference.

Type: [ReferenceItem](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### status

The store's status.

Type: String

Valid Values: CREATING | UPDATING | DELETING | ACTIVE | FAILED

### storeFormat

The annotation file format of the store.

Type: String

Valid Values: GFF | TSV | VCF

### storeOptions

Parsing options for the store.

Type: [StoreOptions](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### updateTime

When the store was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateAnnotationStoreVersion

Updates the description of an annotation store version.

## Request Syntax

```
POST /annotationStore/name/version/versionName HTTP/1.1  
Content-type: application/json
```

```
{  
  "description": "string"  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### name

The name of an annotation store.

Required: Yes

### versionName

The name of an annotation store version.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### description

The description of an annotation store.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "creationTime": "string",
  "description": "string",
  "id": "string",
  "name": "string",
  "status": "string",
  "storeId": "string",
  "updateTime": "string",
  "versionName": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [creationTime](#)

The time stamp for when an annotation store version was created.

Type: Timestamp

### [description](#)

The description of an annotation store version.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

### [id](#)

The annotation store version ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

## name

The name of an annotation store.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: ([a-z]){1}([a-z0-9\_]){2,254}

## status

The status of an annotation store version.

Type: String

Valid Values: CREATING | UPDATING | DELETING | ACTIVE | FAILED

## storeId

The annotation store ID.

Type: String

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

## updateTime

The time stamp for when an annotation store version was updated.

Type: Timestamp

## versionName

The name of an annotation store version.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: ([a-z]){1}([a-z0-9\_]){2,254}

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).



## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

## **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

## **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateRunGroup

Updates a run group.

## Request Syntax

```
POST /runGroup/id HTTP/1.1
Content-type: application/json
```

```
{
  "maxCpus": number,
  "maxDuration": number,
  "maxGpus": number,
  "maxRuns": number,
  "name": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The group's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### maxCpus

The maximum number of CPUs to use.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

### maxDuration

A maximum run time for the group in minutes.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

### maxGpus

The maximum GPUs that can be used by a run group.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

### maxRuns

The maximum number of concurrent runs for the group.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

### name

A name for the group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

# Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### InternalServerErrorException

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### RequestTimeoutException

The request timed out.

HTTP Status Code: 408

### ResourceNotFoundException

The target resource was not found in the current Region.

HTTP Status Code: 404

### ServiceQuotaExceededException

The request exceeds a service quota.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateVariantStore

Updates a variant store.

## Request Syntax

```
POST /variantStore/name HTTP/1.1
Content-type: application/json
```

```
{
  "description": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### name

A name for the store.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### description

A description for the store.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "creationTime": "string",
  "description": "string",
  "id": "string",
  "name": "string",
  "reference": { ... },
  "status": "string",
  "updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### creationTime

When the store was created.

Type: Timestamp

### description

The store's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

### id

The store's ID.

Type: String

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

### name

The store's name.

Type: String



## reference

The store's genome reference.

Type: [Referenceltem](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

## status

The store's status.

Type: String

Valid Values: CREATING | UPDATING | DELETING | ACTIVE | FAILED

## updateTime

When the store was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateWorkflow

Updates a workflow.

## Request Syntax

```
POST /workflow/id HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "name": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The workflow's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### description

A description for the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+

Required: No

### name

A name for the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

### **InternalServerError**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

## **RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

## **ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

## **ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

## **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UploadReadSetPart

This operation uploads a specific part of a read set. If you upload a new part using a previously used part number, the previously uploaded part will be overwritten.

## Request Syntax

```
PUT /sequencestore/sequenceStoreId/upload/uploadId/part?  
partNumber=partNumber&partSource=partSource HTTP/1.1
```

*payload*

## URI Request Parameters

The request uses the following URI parameters.

### partNumber

The number of the part being uploaded.

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: Yes

### partSource

The source file for an upload part.

Valid Values: SOURCE1 | SOURCE2

Required: Yes

### sequenceStoreId

The Sequence Store ID used for the multipart upload.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### uploadId

The ID for the initiated multipart upload.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request accepts the following binary data.

### payload

The read set data to upload for a part.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "checksum": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### checksum

An identifier used to confirm that parts are being added to the intended upload.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).



**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerErrorException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**NotSupportedOperationException**

The operation is not supported by Amazon Omics, or the API does not exist.

HTTP Status Code: 405

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# Data Types

The Amazon Omics API contains several data types that various actions use. This section describes each data type in detail.

## Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [ActivateReadSetFilter](#)
- [ActivateReadSetJobItem](#)
- [ActivateReadSetSourceItem](#)
- [AnnotationImportItemDetail](#)
- [AnnotationImportItemSource](#)
- [AnnotationImportJobItem](#)
- [AnnotationStoreItem](#)
- [AnnotationStoreVersionItem](#)
- [CompleteReadSetUploadPartListItem](#)
- [ETag](#)
- [ExportReadSet](#)
- [ExportReadSetDetail](#)
- [ExportReadSetFilter](#)
- [ExportReadSetJobDetail](#)
- [FileInformation](#)
- [Filter](#)
- [FormatOptions](#)
- [ImportReadSetFilter](#)
- [ImportReadSetJobItem](#)
- [ImportReadSetSourceItem](#)

- [ImportReferenceFilter](#)
- [ImportReferenceJobItem](#)
- [ImportReferenceSourceItem](#)
- [ListAnnotationImportJobsFilter](#)
- [ListAnnotationStoresFilter](#)
- [ListAnnotationStoreVersionsFilter](#)
- [ListVariantImportJobsFilter](#)
- [ListVariantStoresFilter](#)
- [MultipartReadSetUploadListItem](#)
- [ReadOptions](#)
- [ReadSetBatchError](#)
- [ReadSetFiles](#)
- [ReadSetFilter](#)
- [ReadSetListItem](#)
- [ReadSetS3Access](#)
- [ReadSetUploadPartListFilter](#)
- [ReadSetUploadPartListItem](#)
- [ReferenceFiles](#)
- [ReferenceFilter](#)
- [ReferenceItem](#)
- [ReferenceListItem](#)
- [ReferenceStoreDetail](#)
- [ReferenceStoreFilter](#)
- [RunGroupListItem](#)
- [RunListItem](#)
- [RunLogLocation](#)
- [SequenceInformation](#)
- [SequenceStoreDetail](#)
- [SequenceStoreFilter](#)
- [SequenceStoreS3Access](#)

- [ShareDetails](#)
- [SourceFiles](#)
- [SseConfig](#)
- [StartReadSetActivationJobSourceItem](#)
- [StartReadSetImportJobSourceItem](#)
- [StartReferenceImportJobSourceItem](#)
- [StoreOptions](#)
- [TaskListItem](#)
- [TsvOptions](#)
- [TsvStoreOptions](#)
- [TsvVersionOptions](#)
- [VariantImportItemDetail](#)
- [VariantImportItemSource](#)
- [VariantImportJobItem](#)
- [VariantStoreItem](#)
- [VcfOptions](#)
- [VersionDeleteError](#)
- [VersionOptions](#)
- [WorkflowListItem](#)
- [WorkflowParameter](#)

# ActivateReadSetFilter

A read set activation job filter.

## Contents

### **createdAfter**

The filter's start date.

Type: Timestamp

Required: No

### **createdBefore**

The filter's end date.

Type: Timestamp

Required: No

### **status**

The filter's status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED\_WITH\_FAILURES

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ActivateReadSetJobItem

A read set activation job.

## Contents

### creationTime

When the job was created.

Type: Timestamp

Required: Yes

### id

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### sequenceStoreId

The job's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### status

The job's status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED\_WITH\_FAILURES



Required: Yes

## **completionTime**

When the job completed.

Type: Timestamp

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ActivateReadSetSourceItem

A source for a read set activation job.

## Contents

### readSetId

The source's read set ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

### status

The source's status.

Type: String

Valid Values: `NOT_STARTED` | `IN_PROGRESS` | `FINISHED` | `FAILED`

Required: Yes

### statusMessage

The source's status message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnnotationImportItemDetail

Details about an imported annotation item.

## Contents

### jobStatus

The item's job status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLED | COMPLETED | FAILED | COMPLETED\_WITH\_FAILURES

Required: Yes

### source

The source file's location in Amazon S3.

Type: String

Pattern: s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/(.{1,1024})

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnnotationImportItemSource

A source for an annotation import job.

## Contents

### source

The source file's location in Amazon S3.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-]{1,61}[a-z0-9])/.{1,1024}`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnnotationImportJobItem

An annotation import job.

## Contents

### creationTime

When the job was created.

Type: Timestamp

Required: Yes

### destinationName

The job's destination annotation store.

Type: String

Required: Yes

### id

The job's ID.

Type: String

Required: Yes

### roleArn

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

Required: Yes

### status

The job's status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLED | COMPLETED | FAILED | COMPLETED\_WITH\_FAILURES

Required: Yes

### **updateTime**

When the job was updated.

Type: Timestamp

Required: Yes

### **versionName**

The name of the annotation store version.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: ([a-z]){1}([a-z0-9\_]){2,254}

Required: Yes

### **annotationFields**

The annotation schema generated by the parsed annotation data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 21.

Value Length Constraints: Minimum length of 1. Maximum length of 21.

Required: No

### **completionTime**

When the job completed.

Type: Timestamp

Required: No

## runLeftNormalization

The job's left normalization setting.

Type: Boolean

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# AnnotationStoreItem

An annotation store.

## Contents

### creationTime

The store's creation time.

Type: Timestamp

Required: Yes

### description

The store's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: Yes

### id

The store's ID.

Type: String

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

Required: Yes

### name

The store's name.

Type: String

Required: Yes

### reference

The store's genome reference.

Type: [Referenceltem](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### **sseConfig**

The store's server-side encryption (SSE) settings.

Type: [SseConfig](#) object

Required: Yes

### **status**

The store's status.

Type: String

Valid Values: CREATING | UPDATING | DELETING | ACTIVE | FAILED

Required: Yes

### **statusMessage**

The store's status message.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: Yes

### **storeArn**

The store's ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

Required: Yes

**storeFormat**

The store's file format.

Type: String

Valid Values: GFF | TSV | VCF

Required: Yes

**storeSizeBytes**

The store's size in bytes.

Type: Long

Required: Yes

**updateTime**

When the store was updated.

Type: Timestamp

Required: Yes

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnnotationStoreVersionItem

Annotation store versions.

## Contents

### creationTime

The time stamp for when an annotation store version was created.

Type: Timestamp

Required: Yes

### description

The description of an annotation store version.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: Yes

### id

The annotation store version ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: Yes

### name

A name given to an annotation store version to distinguish it from others.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

Required: Yes

**status**

The status of an annotation store version.

Type: String

Valid Values: CREATING | UPDATING | DELETING | ACTIVE | FAILED

Required: Yes

**statusMessage**

The status of an annotation store version.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: Yes

**storeId**

The store ID for an annotation store version.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: Yes

**updateTime**

The time stamp for when an annotation store version was updated.

Type: Timestamp

Required: Yes

**versionArn**

The Arn for an annotation store version.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

Required: Yes

### **versionName**

The name of an annotation store version.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: ([a-z]){1}([a-z0-9\_]){2,254}

Required: Yes

### **versionSizeBytes**

The size of an annotation store version in Bytes.

Type: Long

Required: Yes

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CompleteReadSetUploadPartListItem

Part of the response to the CompleteReadSetUpload API, including metadata.

## Contents

### checksum

A unique identifier used to confirm that parts are being added to the correct upload.

Type: String

Required: Yes

### partNumber

A number identifying the part in a read set upload.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: Yes

### partSource

The source file of the part being uploaded.

Type: String

Valid Values: SOURCE1 | SOURCE2

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)





# ETag

The entity tag (ETag) is a hash of the object representing its semantic content.

## Contents

### algorithm

The algorithm used to calculate the read set's ETag(s).

Type: String

Valid Values: FASTQ\_MD5up | BAM\_MD5up | CRAM\_MD5up | FASTQ\_SHA256up  
| BAM\_SHA256up | CRAM\_SHA256up | FASTQ\_SHA512up | BAM\_SHA512up |  
CRAM\_SHA512up

Required: No

### source1

The ETag hash calculated on Source1 of the read set.

Type: String

Required: No

### source2

The ETag hash calculated on Source2 of the read set.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ExportReadSet

A read set.

## Contents

### readSetId

The set's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ExportReadSetDetail

Details about a read set.

## Contents

### id

The set's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

### status

The set's status.

Type: String

Valid Values: `NOT_STARTED` | `IN_PROGRESS` | `FINISHED` | `FAILED`

Required: Yes

### statusMessage

The set's status message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ExportReadSetFilter

An read set export job filter.

## Contents

### **createdAfter**

The filter's start date.

Type: Timestamp

Required: No

### **createdBefore**

The filter's end date.

Type: Timestamp

Required: No

### **status**

A status to filter on.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED\_WITH\_FAILURES

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ExportReadSetJobDetail

Details about a read set export job.

## Contents

### creationTime

When the job was created.

Type: Timestamp

Required: Yes

### destination

The job's destination in Amazon S3.

Type: String

Pattern: s3://([a-z0-9][a-z0-9- .]{1,61}[a-z0-9])/?(.{1,1024})/?

Required: Yes

### id

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### sequenceStoreId

The job's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+



Required: Yes

### **status**

The job's status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED\_WITH\_FAILURES

Required: Yes

### **completionTime**

When the job completed.

Type: Timestamp

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FileInformation

Details about a file.

## Contents

### contentLength

The file's content length.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 5497558138880.

Required: No

### partSize

The file's part size.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 5368709120.

Required: No

### s3Access

The S3 URI metadata of a sequence store.

Type: [ReadSetS3Access](#) object

Required: No

### totalParts

The file's total parts.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Filter

Use filters to return a subset of resources. You can define filters for specific parameters, such as the resource status.

## Contents

### resourceArns

Filter based on the Amazon Resource Number (ARN) of the resource. You can specify up to 10 values.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

### status

Filter based on the resource status. You can specify up to 10 values.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Valid Values: PENDING | ACTIVATING | ACTIVE | DELETING | DELETED | FAILED

Required: No

### type

The type of resources to be filtered. You can specify one or more of the resource types.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Valid Values: VARIANT\_STORE | ANNOTATION\_STORE | WORKFLOW

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FormatOptions

Formatting options for a file.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### tsvOptions

Options for a TSV file.

Type: [TsvOptions](#) object

Required: No

### vcfOptions

Options for a VCF file.

Type: [VcfOptions](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ImportReadSetFilter

A filter for import read set jobs.

## Contents

### **createdAfter**

The filter's start date.

Type: Timestamp

Required: No

### **createdBefore**

The filter's end date.

Type: Timestamp

Required: No

### **status**

A status to filter on.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED\_WITH\_FAILURES

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)





# ImportReadSetJobItem

An import read set job.

## Contents

### **creationTime**

When the job was created.

Type: Timestamp

Required: Yes

### **id**

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### **roleArn**

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:.\*

Required: Yes

### **sequenceStoreId**

The job's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### **status**

The job's status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED\_WITH\_FAILURES

Required: Yes

### **completionTime**

When the job completed.

Type: Timestamp

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ImportReadSetSourceItem

A source for an import read set job.

## Contents

### sampleId

The source's sample ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: Yes

### sourceFiles

The source files' location in Amazon S3.

Type: [SourceFiles](#) object

Required: Yes

### sourceFileType

The source's file type.

Type: String

Valid Values: FASTQ | BAM | CRAM | UBAM

Required: Yes

### status

The source's status.

Type: String

Valid Values: NOT\_STARTED | IN\_PROGRESS | FINISHED | FAILED

Required: Yes

**subjectId**

The source's subject ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: Yes

**description**

The source's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

**generatedFrom**

Where the source originated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

**name**

The source's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### **referenceArn**

The source's genome reference ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: arn: . +

Required: No

### **statusMessage**

The source's status message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: [\p{L} | \p{M} | \p{Z} | \p{S} | \p{N} | \p{P}] +

Required: No

### **tags**

The source's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ImportReferenceFilter

A filter for import references.

## Contents

### **createdAfter**

The filter's start date.

Type: Timestamp

Required: No

### **createdBefore**

The filter's end date.

Type: Timestamp

Required: No

### **status**

A status to filter on.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED\_WITH\_FAILURES

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)





# ImportReferenceJobItem

An import reference job.

## Contents

### creationTime

When the job was created.

Type: Timestamp

Required: Yes

### id

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### referenceStoreId

The job's reference store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### roleArn

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:.\*

Required: Yes

### **status**

The job's status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED\_WITH\_FAILURES

Required: Yes

### **completionTime**

When the job completed.

Type: Timestamp

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ImportReferenceSourceItem

An genome reference source.

## Contents

### status

The source's status.

Type: String

Valid Values: NOT\_STARTED | IN\_PROGRESS | FINISHED | FAILED

Required: Yes

### description

The source's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### name

The source's name.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### sourceFile

The source file's location in Amazon S3.

Type: String

Pattern: s3://([a-z0-9][a-z0-9-]{1,61}[a-z0-9])/.{1,1024}

Required: No

### **statusMessage**

The source's status message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: [\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+

Required: No

### **tags**

The source's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ListAnnotationImportJobsFilter

A filter for annotation import jobs.

## Contents

### status

A status to filter on.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLED | COMPLETED | FAILED | COMPLETED\_WITH\_FAILURES

Required: No

### storeName

A store name to filter on.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ListAnnotationStoresFilter

A filter for annotation stores.

## Contents

### status

A status to filter on.

Type: String

Valid Values: CREATING | UPDATING | DELETING | ACTIVE | FAILED

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ListAnnotationStoreVersionsFilter

Use filters to focus the returned annotation store versions on a specific parameter, such as the status of the annotation store.

## Contents

### status

The status of an annotation store version.

Type: String

Valid Values: CREATING | UPDATING | DELETING | ACTIVE | FAILED

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ListVariantImportJobsFilter

A filter for variant import jobs.

## Contents

### status

A status to filter on.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLED | COMPLETED | FAILED | COMPLETED\_WITH\_FAILURES

Required: No

### storeName

A store name to filter on.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ListVariantStoresFilter

A filter for variant stores.

## Contents

### status

A status to filter on.

Type: String

Valid Values: CREATING | UPDATING | DELETING | ACTIVE | FAILED

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MultipartReadSetUploadListItem

Part of the response to ListMultipartReadSetUploads, excluding completed and aborted multipart uploads.

## Contents

### creationTime

The time stamp for when a direct upload was created.

Type: Timestamp

Required: Yes

### generatedFrom

The source of an uploaded part.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: Yes

### referenceArn

The source's reference ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.*`

Required: Yes

### sampleId

The read set source's sample ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: Yes

### **sequenceStoreId**

The sequence store ID used for the multipart upload.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

### **sourceFileType**

The type of file the read set originated from.

Type: String

Valid Values: FASTQ | BAM | CRAM | UBAM

Required: Yes

### **subjectId**

The read set source's subject ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: Yes

### **uploadId**

The ID for the initiated multipart upload.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

### **description**

The description of a read set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### **name**

The name of a read set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### **tags**

Any tags you wish to add to a read set.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReadOptions

Read options for an annotation import job.

## Contents

### **comment**

The file's comment character.

Type: String

Length Constraints: Fixed length of 1.

Required: No

### **encoding**

The file's encoding.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Required: No

### **escape**

A character for escaping quotes in the file.

Type: String

Length Constraints: Fixed length of 1.

Required: No

### **escapeQuotes**

Whether quotes need to be escaped in the file.

Type: Boolean

Required: No

### **header**

Whether the file has a header row.

Type: Boolean

Required: No

### **lineSep**

A line separator for the file.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Required: No

### **quote**

The file's quote character.

Type: String

Length Constraints: Fixed length of 1.

Required: No

### **quoteAll**

Whether all values need to be quoted, or just those that contain quotes.

Type: Boolean

Required: No

### **sep**

The file's field separator.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ReadSetBatchError

An error from a batch read set operation.

## Contents

### code

The error's code.

Type: String

Required: Yes

### id

The error's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### message

The error's message.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ReadSetFiles

Files in a read set.

## Contents

### index

The files' index.

Type: [FileInformation](#) object

Required: No

### source1

The location of the first file in Amazon S3.

Type: [FileInformation](#) object

Required: No

### source2

The location of the second file in Amazon S3.

Type: [FileInformation](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReadSetFilter

A filter for read sets.

## Contents

### **createdAfter**

The filter's start date.

Type: Timestamp

Required: No

### **createdBefore**

The filter's end date.

Type: Timestamp

Required: No

### **creationType**

The creation type of the read set.

Type: String

Valid Values: IMPORT | UPLOAD

Required: No

### **generatedFrom**

Where the source originated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### **name**

A name to filter on.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### **referenceArn**

A genome reference ARN to filter on.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 127.

Pattern: `^\^arn:.+`

Required: No

### **sampleId**

The read set source's sample ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### **status**

A status to filter on.

Type: String

Valid Values: ARCHIVED | ACTIVATING | ACTIVE | DELETING | DELETED | PROCESSING\_UPLOAD | UPLOAD\_FAILED

Required: No

### **subjectId**

The read set source's subject ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReadSetListItem

A read set.

## Contents

### **arn**

The read set's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn: .+`

Required: Yes

### **creationTime**

When the read set was created.

Type: Timestamp

Required: Yes

### **fileType**

The read set's file type.

Type: String

Valid Values: `FASTQ | BAM | CRAM | UBAM`

Required: Yes

### **id**

The read set's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

### **sequenceStoreId**

The read set's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

### **status**

The read set's status.

Type: String

Valid Values: ARCHIVED | ACTIVATING | ACTIVE | DELETING | DELETED | PROCESSING\_UPLOAD | UPLOAD\_FAILED

Required: Yes

### **creationType**

The creation type of the read set.

Type: String

Valid Values: IMPORT | UPLOAD

Required: No

### **description**

The read set's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+

Required: No



**etag**

The entity tag (ETag) is a hash of the object representing its semantic content.

Type: [ETag](#) object

Required: No

**name**

The read set's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

**referenceArn**

The read set's genome reference ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn: .+`

Required: No

**sampleId**

The read set's sample ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

**sequenceInformation**

Details about a sequence.

Type: [SequenceInformation](#) object

Required: No

### **statusMessage**

The status for a read set. It provides more detail as to why the read set has a status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]`+

Required: No

### **subjectId**

The read set's subject ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]`+

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReadSetS3Access

The S3 URI for each read set file.

## Contents

### s3Uri

The S3 URI for each read set file.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-]{1,61}[a-z0-9])/.{1,1024}`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReadSetUploadPartListFilter

Filter settings that select for read set upload parts of interest.

## Contents

### **createdAfter**

Filters for read set uploads after a specified time.

Type: Timestamp

Required: No

### **createdBefore**

Filters for read set part uploads before a specified time.

Type: Timestamp

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReadSetUploadPartListItem

The metadata of a single part of a file that was added to a multipart upload. A list of these parts is returned in the response to the ListReadSetUploadParts API.

## Contents

### checksum

A unique identifier used to confirm that parts are being added to the correct upload.

Type: String

Required: Yes

### partNumber

The number identifying the part in an upload.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: Yes

### partSize

The size of the the part in an upload.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 5368709120.

Required: Yes

### partSource

The origin of the part being direct uploaded.

Type: String

Valid Values: SOURCE1 | SOURCE2

Required: Yes

**creationTime**

The time stamp for when a direct upload was created.

Type: Timestamp

Required: No

**lastUpdatedTime**

The time stamp for the most recent update to an uploaded part.

Type: Timestamp

Required: No

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReferenceFiles

A set of genome reference files.

## Contents

### index

The files' index.

Type: [FileInformation](#) object

Required: No

### source

The source file's location in Amazon S3.

Type: [FileInformation](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReferenceFilter

A filter for references.

## Contents

### **createdAfter**

The filter's start date.

Type: Timestamp

Required: No

### **createdBefore**

The filter's end date.

Type: Timestamp

Required: No

### **md5**

An MD5 checksum to filter on.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}|\p{N}]+`

Required: No

### **name**

A name to filter on.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No



## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReferenceItem

A genome reference.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### referenceArn

The reference's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: arn: .+

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReferenceListItem

A genome reference.

## Contents

### arn

The reference's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: arn: . +

Required: Yes

### creationTime

When the reference was created.

Type: Timestamp

Required: Yes

### id

The reference's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9] +

Required: Yes

### md5

The reference's MD5 checksum.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}|\p{N}]+`

Required: Yes

### **referenceStoreId**

The reference's store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

### **updateTime**

When the reference was updated.

Type: Timestamp

Required: Yes

### **description**

The reference's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### **name**

The reference's name.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

## status

The reference's status.

Type: String

Valid Values: ACTIVE | DELETING | DELETED

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReferenceStoreDetail

Details about a reference store.

## Contents

### arn

The store's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: arn: . +

Required: Yes

### creationTime

When the store was created.

Type: Timestamp

Required: Yes

### id

The store's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9] +

Required: Yes

### description

The store's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### **name**

The store's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### **sseConfig**

The store's server-side encryption (SSE) settings.

Type: [SseConfig](#) object

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReferenceStoreFilter

A filter for reference stores.

## Contents

### **createdAfter**

The filter's start date.

Type: Timestamp

Required: No

### **createdBefore**

The filter's end date.

Type: Timestamp

Required: No

### **name**

The name to filter on.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)





# RunGroupListItem

A run group.

## Contents

### arn

The group's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: arn: . +

Required: No

### creationTime

When the group was created.

Type: Timestamp

Required: No

### id

The group's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9] +

Required: No

### maxCpus

The group's maximum CPU count setting.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

### **maxDuration**

The group's maximum duration setting in minutes.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

### **maxGpus**

The maximum GPUs that can be used by a run group.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

### **maxRuns**

The group's maximum concurrent run setting.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

### **name**

The group's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# RunListItem

A workflow run.

## Contents

### arn

The run's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: arn: . +

Required: No

### creationTime

When the run was created.

Type: Timestamp

Required: No

### id

The run's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

Required: No

### name

The run's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]+`

Required: No

### **priority**

The run's priority.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

Required: No

### **startTime**

When the run started.

Type: Timestamp

Required: No

### **status**

The run's status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: PENDING | STARTING | RUNNING | STOPPING | COMPLETED | DELETED  
| CANCELLED | FAILED

Required: No

### **stopTime**

When the run stopped.

Type: Timestamp

Required: No

### **storageCapacity**

The run's storage capacity in gibibytes. For dynamic storage, after the run has completed, this value is the maximum amount of storage used during the run.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

Required: No

### **storageType**

The run's storage type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: STATIC | DYNAMIC

Required: No

### **workflowId**

The run's workflow ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# RunLogLocation

The URI for the run log.

## Contents

### engineLogStream

The log stream ARN for the engine log.

Type: String

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]`+

Required: No

### runLogStream

The log stream ARN for the run log.

Type: String

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]`+

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# SequenceInformation

Details about a sequence.

## Contents

### alignment

The sequence's alignment setting.

Type: String

Required: No

### generatedFrom

Where the sequence originated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### totalBaseCount

The sequence's total base count.

Type: Long

Required: No

### totalReadCount

The sequence's total read count.

Type: Long

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SequenceStoreDetail

Details about a sequence store.

## Contents

### arn

The store's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: arn: . +

Required: Yes

### creationTime

When the store was created.

Type: Timestamp

Required: Yes

### id

The store's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9] +

Required: Yes

### description

The store's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]`+

Required: No

### **eTagAlgorithmFamily**

The algorithm family of the ETag.

Type: String

Valid Values: MD5up | SHA256up | SHA512up

Required: No

### **fallbackLocation**

An S3 location that is used to store files that have failed a direct upload.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/?((.{1,1024})/)?`

Required: No

### **name**

The store's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\\p{L}|\\p{M}|\\p{Z}|\\p{S}|\\p{N}|\\p{P}]`+

Required: No

### **sseConfig**

The store's server-side encryption (SSE) settings.

Type: [SseConfig](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SequenceStoreFilter

A filter for a sequence store.

## Contents

### createdAfter

The filter's start date.

Type: Timestamp

Required: No

### createdBefore

The filter's end date.

Type: Timestamp

Required: No

### name

A name to filter on.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# SequenceStoreS3Access

The S3 access metadata of the sequence store.

## Contents

### s3AccessPointArn

This is ARN of the access point associated with the S3 bucket storing read sets.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `arn:[^:]*:s3:[^:]*:[^:]*:accesspoint/.*`

Required: No

### s3Uri

The S3 URI of the sequence store.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/(.{1,1024})`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ShareDetails

The details of a resource share.

## Contents

### **creationTime**

The timestamp of when the resource share was created.

Type: Timestamp

Required: No

### **ownerId**

The account ID for the data owner. The owner creates the resource share.

Type: String

Required: No

### **principalSubscriber**

The principal subscriber is the account that is sharing the resource.

Type: String

Required: No

### **resourceArn**

The Arn of the shared resource.

Type: String

Required: No

### **resourceId**

The ID of the shared resource.

Type: String

Required: No

**shareId**

The ID of the resource share.

Type: String

Required: No

**shareName**

The name of the resource share.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z0-9\_- ]+

Required: No

**status**

The status of the share.

Type: String

Valid Values: PENDING | ACTIVATING | ACTIVE | DELETING | DELETED | FAILED

Required: No

**statusMessage**

The status message for a resource share. It provides additional details about the share status.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

**updateTime**

The timestamp of the resource share update.

Type: Timestamp

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SourceFiles

Source files for a sequence.

## Contents

### source1

The location of the first file in Amazon S3.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/.{1,1024}`

Required: Yes

### source2

The location of the second file in Amazon S3.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/.{1,1024}`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SseConfig

Server-side encryption (SSE) settings for a store.

## Contents

### type

The encryption type.

Type: String

Valid Values: KMS

Required: Yes

### keyArn

An encryption key ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `.*arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# StartReadSetActivationJobSourceItem

A source for a read set activation job.

## Contents

### readSetId

The source's read set ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# StartReadSetImportJobSourceItem

A source for a read set import job.

## Contents

### sampleId

The source's sample ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: Yes

### sourceFiles

The source files' location in Amazon S3.

Type: [SourceFiles](#) object

Required: Yes

### sourceFileType

The source's file type.

Type: String

Valid Values: FASTQ | BAM | CRAM | UBAM

Required: Yes

### subjectId

The source's subject ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: Yes

### **description**

The source's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### **generatedFrom**

Where the source originated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### **name**

The source's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### **referenceArn**

The source's reference ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn: .+`



Required: No

## tags

The source's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# StartReferenceImportJobSourceItem

A source for a reference import job.

## Contents

### name

The source's name.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: Yes

### sourceFile

The source file's location in Amazon S3.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-]{1,61}[a-z0-9])/.{1,1024}`

Required: Yes

### description

The source's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### tags

The source's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# StoreOptions

Settings for a store.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

## tsvStoreOptions

File settings for a TSV store.

Type: [TsvStoreOptions](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TaskListItem

A workflow run task.

## Contents

### cpus

The task's CPU count.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

### creationTime

When the task was created.

Type: Timestamp

Required: No

### gpus

The number of Graphics Processing Units (GPU) specified for the task.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

### instanceType

The instance type for a task.

Type: String

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

**memory**

The task's memory use in gigabytes.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

**name**

The task's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

**startTime**

When the task started.

Type: Timestamp

Required: No

**status**

The task's status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: PENDING | STARTING | RUNNING | STOPPING | COMPLETED |  
CANCELLED | FAILED

Required: No

**stopTime**

When the task stopped.

Type: Timestamp

Required: No

### **taskId**

The task's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TsvOptions

Formatting options for a TSV file.

## Contents

### readOptions

The file's read options.

Type: [ReadOptions](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# TsvStoreOptions

File settings for a TSV store.

## Contents

### annotationType

The store's annotation type.

Type: String

Valid Values: GENERIC | CHR\_POS | CHR\_POS\_REF\_ALT | CHR\_START\_END\_ONE\_BASE | CHR\_START\_END\_REF\_ALT\_ONE\_BASE | CHR\_START\_END\_ZERO\_BASE | CHR\_START\_END\_REF\_ALT\_ZERO\_BASE

Required: No

### formatToHeader

The store's header key to column name mapping.

Type: String to string map

Valid Keys: CHR | START | END | REF | ALT | POS

Value Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

### schema

The store's schema.

Type: Array of string to string maps

Array Members: Minimum number of 1 item. Maximum number of 5000 items.

Map Entries: Maximum number of 1 item.

Key Pattern: [a-z0-9\_]{1,255}

Valid Values: LONG | INT | STRING | FLOAT | DOUBLE | BOOLEAN

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TsvVersionOptions

The options for a TSV file.

## Contents

### annotationType

The store version's annotation type.

Type: String

Valid Values: GENERIC | CHR\_POS | CHR\_POS\_REF\_ALT | CHR\_START\_END\_ONE\_BASE | CHR\_START\_END\_REF\_ALT\_ONE\_BASE | CHR\_START\_END\_ZERO\_BASE | CHR\_START\_END\_REF\_ALT\_ZERO\_BASE

Required: No

### formatToHeader

The annotation store version's header key to column name mapping.

Type: String to string map

Valid Keys: CHR | START | END | REF | ALT | POS

Value Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

### schema

The TSV schema for an annotation store version.

Type: Array of string to string maps

Array Members: Minimum number of 1 item. Maximum number of 5000 items.

Map Entries: Maximum number of 1 item.

Key Pattern: [a-z0-9\_]{1,255}

Valid Values: LONG | INT | STRING | FLOAT | DOUBLE | BOOLEAN

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# VariantImportItemDetail

Details about an imported variant item.

## Contents

### jobStatus

The item's job status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLED | COMPLETED | FAILED | COMPLETED\_WITH\_FAILURES

Required: Yes

### source

The source file's location in Amazon S3.

Type: String

Pattern: s3://([a-z0-9][a-z0-9-]{1,61}[a-z0-9])/(.{1,1024})

Required: Yes

### statusMessage

A message that provides additional context about a job

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

# VariantImportItemSource

A imported variant item's source.

## Contents

### source

The source file's location in Amazon S3.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-]{1,61}[a-z0-9])/.{1,1024}`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# VariantImportJobItem

A variant import job.

## Contents

### creationTime

When the job was created.

Type: Timestamp

Required: Yes

### destinationName

The job's destination variant store.

Type: String

Required: Yes

### id

The job's ID.

Type: String

Required: Yes

### roleArn

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

Required: Yes

### status

The job's status.

Type: String



Valid Values: SUBMITTED | IN\_PROGRESS | CANCELLED | COMPLETED | FAILED | COMPLETED\_WITH\_FAILURES

Required: Yes

### **updateTime**

When the job was updated.

Type: Timestamp

Required: Yes

### **annotationFields**

The annotation schema generated by the parsed annotation data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 21.

Value Length Constraints: Minimum length of 1. Maximum length of 21.

Required: No

### **completionTime**

When the job completed.

Type: Timestamp

Required: No

### **runLeftNormalization**

The job's left normalization setting.

Type: Boolean

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# VariantStoreItem

A variant store.

## Contents

### creationTime

When the store was created.

Type: Timestamp

Required: Yes

### description

The store's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: Yes

### id

The store's ID.

Type: String

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

Required: Yes

### name

The store's name.

Type: String

Required: Yes

### reference

The store's genome reference.

Type: [Referenceltem](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### **sseConfig**

The store's server-side encryption (SSE) settings.

Type: [SseConfig](#) object

Required: Yes

### **status**

The store's status.

Type: String

Valid Values: CREATING | UPDATING | DELETING | ACTIVE | FAILED

Required: Yes

### **statusMessage**

The store's status message.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: Yes

### **storeArn**

The store's ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

Required: Yes

## **storeSizeBytes**

The store's size in bytes.

Type: Long

Required: Yes

## **updateTime**

When the store was updated.

Type: Timestamp

Required: Yes

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# VcfOptions

Formatting options for a VCF file.

## Contents

### **ignoreFilterField**

The file's ignore filter field setting.

Type: Boolean

Required: No

### **ignoreQualField**

The file's ignore qual field setting.

Type: Boolean

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# VersionDeleteError

The error preventing deletion of the annotation store version.

## Contents

### message

The message explaining the error in annotation store deletion.

Type: String

Required: Yes

### versionName

The name given to an annotation store version.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: (`[a-z]`){1}(`[a-z0-9_]`){2,254}

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# VersionOptions

The options for an annotation store version.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

## tsvVersionOptions

File settings for a version of a TSV store.

Type: [TsvVersionOptions](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# WorkflowListItem

A workflow.

## Contents

### arn

The workflow's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: arn: .+

Required: No

### creationTime

When the workflow was created.

Type: Timestamp

Required: No

### digest

The workflow's digest.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

### id

The workflow's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

Required: No

### **metadata**

Any metadata available for workflow. The information listed may vary depending on the workflow, and there may also be no metadata to return.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

### **name**

The workflow's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### **status**

The workflow's status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: CREATING | ACTIVE | UPDATING | DELETED | FAILED | INACTIVE

Required: No

### **type**

The workflow's type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: PRIVATE | READY2RUN

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# WorkflowParameter

A workflow parameter.

## Contents

### description

The parameter's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[\p{L}|\p{M}|\p{Z}|\p{S}|\p{N}|\p{P}]+`

Required: No

### optional

Whether the parameter is optional.

Type: Boolean

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

## Action

The action to be performed.

Type: string

Required: Yes

## Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

## X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request"). The value is expressed in the following format: *access\_key/YYYYMMDD/region/service/aws4\_request*.

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

### **X-Amz-Date**

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

### **X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

### **X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

### **X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

# Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## **ExpiredTokenException**

The security token included in the request is expired

HTTP Status Code: 403

## **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 403

## **InternalFailure**

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

## **MalformedHttpRequestException**

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

## **NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 401

## **OptInRequired**

The AWS access key ID needs a subscription for the service.



HTTP Status Code: 403

### **RequestAbortedException**

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

### **RequestEntityTooLargeException**

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

### **RequestExpired**

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

### **RequestTimeoutException**

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

### **ServiceUnavailable**

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

### **UnrecognizedClientException**

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

**UnknownOperationException**

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 404

**ValidationError**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400