



API Reference

AWS Fault Injection Service



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AWS Fault Injection Service: API Reference

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Welcome

AWS Fault Injection Service is a managed service that enables you to perform fault injection experiments on your AWS workloads. For more information, see the [AWS Fault Injection Service User Guide](#).

This document was last published on July 2, 2024.

Actions

The following actions are supported:

- [CreateExperimentTemplate](#)
- [CreateTargetAccountConfiguration](#)
- [DeleteExperimentTemplate](#)
- [DeleteTargetAccountConfiguration](#)
- [GetAction](#)
- [GetExperiment](#)
- [GetExperimentTargetAccountConfiguration](#)
- [GetExperimentTemplate](#)
- [GetTargetAccountConfiguration](#)
- [GetTargetResourceType](#)
- [ListActions](#)
- [ListExperimentResolvedTargets](#)
- [ListExperiments](#)
- [ListExperimentTargetAccountConfigurations](#)
- [ListExperimentTemplates](#)
- [ListTagsForResource](#)
- [ListTargetAccountConfigurations](#)
- [ListTargetResourceTypes](#)
- [StartExperiment](#)
- [StopExperiment](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateExperimentTemplate](#)
- [UpdateTargetAccountConfiguration](#)

CreateExperimentTemplate

Creates an experiment template.

An experiment template includes the following components:

- **Targets:** A target can be a specific resource in your AWS environment, or one or more resources that match criteria that you specify, for example, resources that have specific tags.
- **Actions:** The actions to carry out on the target. You can specify multiple actions, the duration of each action, and when to start each action during an experiment.
- **Stop conditions:** If a stop condition is triggered while an experiment is running, the experiment is automatically stopped. You can define a stop condition as a CloudWatch alarm.

For more information, see [experiment templates](#) in the *AWS Fault Injection Service User Guide*.

Request Syntax

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

{
  "actions": {
    "string": {
      "actionId": "string",
      "description": "string",
      "parameters": {
        "string": "string"
      },
      "startAfter": [ "string" ],
      "targets": {
        "string": "string"
      }
    }
  },
  "clientToken": "string",
  "description": "string",
  "experimentOptions": {
    "accountTargeting": "string",
    "emptyTargetResolutionMode": "string"
  },
  "logConfiguration": {
```

```
  "cloudWatchLogsConfiguration": {
    "logGroupArn": "string"
  },
  "logSchemaVersion": number,
  "s3Configuration": {
    "bucketName": "string",
    "prefix": "string"
  }
},
"roleArn": "string",
"stopConditions": [
  {
    "source": "string",
    "value": "string"
  }
],
"tags": {
  "string" : "string"
},
"targets": {
  "string" : {
    "filters": [
      {
        "path": "string",
        "values": [ "string" ]
      }
    ],
    "parameters": {
      "string" : "string"
    },
    "resourceArns": [ "string" ],
    "resourceTags": {
      "string" : "string"
    },
    "resourceType": "string",
    "selectionMode": "string"
  }
}
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

actions

The actions for the experiment.

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

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Required: Yes

clientToken

Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\S]+`

Required: Yes

description

A description for the experiment template.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]+`

Required: Yes

experimentOptions

The experiment options for the experiment template.

Type: [CreateExperimentTemplateExperimentOptionsInput](#) object

Required: No

logConfiguration

The configuration for experiment logging.

Type: [CreateExperimentTemplateLogConfigurationInput](#) object

Required: No

roleArn

The Amazon Resource Name (ARN) of an IAM role that grants the AWS FIS service permission to perform service actions on your behalf.

Type: String

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

Pattern: `[\S]+`

Required: Yes

stopConditions

The stop conditions.

Type: Array of [CreateExperimentTemplateStopConditionInput](#) objects

Required: Yes

tags

The tags to apply to the experiment template.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]+`

Value Length Constraints: Maximum length of 256.

Value Pattern: `[\s\S]*`

Required: No

targets

The targets for the experiment.

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

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "experimentTemplate": {
    "actions": {
      "string": {
        "actionId": "string",
        "description": "string",
        "parameters": {
          "string": "string"
        },
        "startAfter": [ "string" ],
        "targets": {
          "string": "string"
        }
      }
    },
    "arn": "string",
    "creationTime": number,
    "description": "string",
    "experimentOptions": {
      "accountTargeting": "string",
      "emptyTargetResolutionMode": "string"
    },
    "id": "string",
    "lastUpdateTime": number,
    "logConfiguration": {
      "cloudWatchLogsConfiguration": {
```

```
    "logGroupArn": "string"
  },
  "logSchemaVersion": number,
  "s3Configuration": {
    "bucketName": "string",
    "prefix": "string"
  }
},
"roleArn": "string",
"stopConditions": [
  {
    "source": "string",
    "value": "string"
  }
],
"tags": {
  "string" : "string"
},
"targetAccountConfigurationsCount": number,
"targets": {
  "string" : {
    "filters": [
      {
        "path": "string",
        "values": [ "string" ]
      }
    ],
    "parameters": {
      "string" : "string"
    },
    "resourceArns": [ "string" ],
    "resourceTags": {
      "string" : "string"
    },
    "resourceType": "string",
    "selectionMode": "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.

experimentTemplate

Information about the experiment template.

Type: [ExperimentTemplate](#) object

Errors

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

ConflictException

The request could not be processed because of a conflict.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource cannot be found.

HTTP Status Code: 404

ServiceQuotaExceededException

You have exceeded your service quota.

HTTP Status Code: 402

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

HTTP Status Code: 400

Examples

Terminate EC2 instances

The following example terminates three instances in the specified VPC with the tag `env=test`.

Sample Request

```
{
  "description": "Test instance termination",
  "targets": {
    "to-terminate": {
      "resourceType": "aws:ec2:instance",
      "resourceTags": {
        "env": "test"
      },
      "filters": [
        {
          "path": "VpcId",
          "values": [
            "vpc-1234567890abcdef0"
          ]
        }
      ],
      "selectionMode": "COUNT(3)"
    }
  },
  "actions": {
    "TerminateInstances": {
      "actionId": "aws:ec2-terminate-instances",
      "description": "terminate instances",
      "targets": {
        "Instances": "to-terminate"
      }
    }
  },
  "stopConditions": [
    {
      "source": "none"
    }
  ],
  "roleArn": "arn:aws:iam:123456789012:role/ExperimentRole",
}
```

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](#)

CreateTargetAccountConfiguration

Creates a target account configuration for the experiment template. A target account configuration is required when `accountTargeting` of `experimentOptions` is set to `multi-account`. For more information, see [experiment options](#) in the *AWS Fault Injection Service User Guide*.

Request Syntax

```
POST /experimentTemplates/id/targetAccountConfigurations/accountId HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "clientToken": "string",
  "description": "string",
  "roleArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[accountId](#)

The AWS account ID of the target account.

Length Constraints: Minimum length of 12. Maximum length of 48.

Pattern: `[\S]+`

Required: Yes

[id](#)

The experiment template ID.

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\S]+`

Required: No

description

The description of the target account.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]*`

Required: No

roleArn

The Amazon Resource Name (ARN) of an IAM role for the target account.

Type: String

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

Pattern: `[\S]+`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "targetAccountConfiguration": {
    "accountId": "string",
    "description": "string",
    "roleArn": "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.

targetAccountConfiguration

Information about the target account configuration.

Type: [TargetAccountConfiguration](#) object

Errors

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

ConflictException

The request could not be processed because of a conflict.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource cannot be found.

HTTP Status Code: 404

ServiceQuotaExceededException

You have exceeded your service quota.

HTTP Status Code: 402

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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](#)

DeleteExperimentTemplate

Deletes the specified experiment template.

Request Syntax

```
DELETE /experimentTemplates/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the experiment template.

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "experimentTemplate": {
    "actions": {
      "string" : {
        "actionId": "string",
        "description": "string",
        "parameters": {
          "string" : "string"
        },
        "startAfter": [ "string" ],
        "targets": {
```

```
        "string" : "string"
      }
    }
  },
  "arn": "string",
  "creationTime": number,
  "description": "string",
  "experimentOptions": {
    "accountTargeting": "string",
    "emptyTargetResolutionMode": "string"
  },
  "id": "string",
  "lastUpdateTime": number,
  "logConfiguration": {
    "cloudWatchLogsConfiguration": {
      "logGroupArn": "string"
    },
    "logSchemaVersion": number,
    "s3Configuration": {
      "bucketName": "string",
      "prefix": "string"
    }
  },
  "roleArn": "string",
  "stopConditions": [
    {
      "source": "string",
      "value": "string"
    }
  ],
  "tags": {
    "string" : "string"
  },
  "targetAccountConfigurationsCount": number,
  "targets": {
    "string" : {
      "filters": [
        {
          "path": "string",
          "values": [ "string" ]
        }
      ],
      "parameters": {
        "string" : "string"
      }
    }
  }
}
```

```
    },
    "resourceArns": [ "string" ],
    "resourceTags": {
      "string" : "string"
    },
    "resourceType": "string",
    "selectionMode": "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.

experimentTemplate

Information about the experiment template.

Type: [ExperimentTemplate](#) object

Errors

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

ResourceNotFoundException

The specified resource cannot be found.

HTTP Status Code: 404

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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](#)

DeleteTargetAccountConfiguration

Deletes the specified target account configuration of the experiment template.

Request Syntax

```
DELETE /experimentTemplates/id/targetAccountConfigurations/accountId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

accountId

The AWS account ID of the target account.

Length Constraints: Minimum length of 12. Maximum length of 48.

Pattern: `[\S]+`

Required: Yes

id

The ID of the experiment template.

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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



```
{
  "targetAccountConfiguration": {
    "accountId": "string",
    "description": "string",
    "roleArn": "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.

targetAccountConfiguration

Information about the target account configuration.

Type: [TargetAccountConfiguration](#) object

Errors

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

ResourceNotFoundException

The specified resource cannot be found.

HTTP Status Code: 404

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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](#)

GetAction

Gets information about the specified AWS FIS action.

Request Syntax

```
GET /actions/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the action.

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "action": {
    "arn": "string",
    "description": "string",
    "id": "string",
    "parameters": {
      "string": {
        "description": "string",
        "required": boolean
      }
    }
  },
}
```

```
  "tags": {
    "string" : "string"
  },
  "targets": {
    "string" : {
      "resourceType": "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.

action

Information about the action.

Type: [Action](#) object

Errors

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

ResourceNotFoundException

The specified resource cannot be found.

HTTP Status Code: 404

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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](#)

GetExperiment

Gets information about the specified experiment.

Request Syntax

```
GET /experiments/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the experiment.

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "experiment": {
    "actions": {
      "string" : {
        "actionId": "string",
        "description": "string",
        "endTime": number,
        "parameters": {
          "string" : "string"
        },
        "startAfter": [ "string" ],

```

```
    "startTime": number,
    "state": {
      "reason": "string",
      "status": "string"
    },
    "targets": {
      "string" : "string"
    }
  }
},
"arn": "string",
"creationTime": number,
"endTime": number,
"experimentOptions": {
  "accountTargeting": "string",
  "actionsMode": "string",
  "emptyTargetResolutionMode": "string"
},
"experimentTemplateId": "string",
"id": "string",
"logConfiguration": {
  "cloudWatchLogsConfiguration": {
    "logGroupArn": "string"
  },
  "logSchemaVersion": number,
  "s3Configuration": {
    "bucketName": "string",
    "prefix": "string"
  }
},
"roleArn": "string",
"startTime": number,
"state": {
  "reason": "string",
  "status": "string"
},
"stopConditions": [
  {
    "source": "string",
    "value": "string"
  }
],
"tags": {
  "string" : "string"
}
```

```

    },
    "targetAccountConfigurationsCount": number,
    "targets": {
      "string" : {
        "filters": [
          {
            "path": "string",
            "values": [ "string" ]
          }
        ],
        "parameters": {
          "string" : "string"
        },
        "resourceArns": [ "string" ],
        "resourceTags": {
          "string" : "string"
        },
        "resourceType": "string",
        "selectionMode": "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.

experiment

Information about the experiment.

Type: [Experiment](#) object

Errors

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

ResourceNotFoundException

The specified resource cannot be found.

HTTP Status Code: 404

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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](#)

GetExperimentTargetAccountConfiguration

Gets information about the specified target account configuration of the experiment.

Request Syntax

```
GET /experiments/id/targetAccountConfigurations/accountId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

accountId

The AWS account ID of the target account.

Length Constraints: Minimum length of 12. Maximum length of 48.

Pattern: `[\S]+`

Required: Yes

id

The ID of the experiment.

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

```
{
  "targetAccountConfiguration": {
    "accountId": "string",
    "description": "string",
    "roleArn": "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.

targetAccountConfiguration

Information about the target account configuration.

Type: [ExperimentTargetAccountConfiguration](#) object

Errors

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

ResourceNotFoundException

The specified resource cannot be found.

HTTP Status Code: 404

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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](#)

GetExperimentTemplate

Gets information about the specified experiment template.

Request Syntax

```
GET /experimentTemplates/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the experiment template.

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "experimentTemplate": {
    "actions": {
      "string" : {
        "actionId": "string",
        "description": "string",
        "parameters": {
          "string" : "string"
        },
        "startAfter": [ "string" ],
        "targets": {
```

```
        "string" : "string"
      }
    }
  },
  "arn": "string",
  "creationTime": number,
  "description": "string",
  "experimentOptions": {
    "accountTargeting": "string",
    "emptyTargetResolutionMode": "string"
  },
  "id": "string",
  "lastUpdateTime": number,
  "logConfiguration": {
    "cloudWatchLogsConfiguration": {
      "logGroupArn": "string"
    },
    "logSchemaVersion": number,
    "s3Configuration": {
      "bucketName": "string",
      "prefix": "string"
    }
  },
  "roleArn": "string",
  "stopConditions": [
    {
      "source": "string",
      "value": "string"
    }
  ],
  "tags": {
    "string" : "string"
  },
  "targetAccountConfigurationsCount": number,
  "targets": {
    "string" : {
      "filters": [
        {
          "path": "string",
          "values": [ "string" ]
        }
      ],
      "parameters": {
        "string" : "string"
      }
    }
  }
}
```

```
    },
    "resourceArns": [ "string" ],
    "resourceTags": {
      "string" : "string"
    },
    "resourceType": "string",
    "selectionMode": "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.

experimentTemplate

Information about the experiment template.

Type: [ExperimentTemplate](#) object

Errors

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

ResourceNotFoundException

The specified resource cannot be found.

HTTP Status Code: 404

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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](#)

GetTargetAccountConfiguration

Gets information about the specified target account configuration of the experiment template.

Request Syntax

```
GET /experimentTemplates/id/targetAccountConfigurations/accountId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

accountId

The AWS account ID of the target account.

Length Constraints: Minimum length of 12. Maximum length of 48.

Pattern: `[\S]+`

Required: Yes

id

The ID of the experiment template.

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

```
{
  "targetAccountConfiguration": {
    "accountId": "string",
    "description": "string",
    "roleArn": "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.

targetAccountConfiguration

Information about the target account configuration.

Type: [TargetAccountConfiguration](#) object

Errors

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

ResourceNotFoundException

The specified resource cannot be found.

HTTP Status Code: 404

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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](#)

GetTargetResourceType

Gets information about the specified resource type.

Request Syntax

```
GET /targetResourceTypes/resourceType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceType

The resource type.

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "targetResourceType": {
    "description": "string",
    "parameters": {
      "string" : {
        "description": "string",
        "required": boolean
      }
    }
  },
}
```

```
    "resourceType": "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.

targetResourceType

Information about the resource type.

Type: [TargetResourceType](#) object

Errors

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

ResourceNotFoundException

The specified resource cannot be found.

HTTP Status Code: 404

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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](#)

ListActions

Lists the available AWS FIS actions.

Request Syntax

```
GET /actions?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Valid Range: Minimum value of 1. Maximum value of 100.

[nextToken](#)

The token for the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\S]+`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "actions": [
    {
```

```
    "arn": "string",
    "description": "string",
    "id": "string",
    "tags": {
      "string" : "string"
    },
    "targets": {
      "string" : {
        "resourceType": "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.

actions

The actions.

Type: Array of [ActionSummary](#) objects

nextToken

The token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\S]+`

Errors

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

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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](#)

ListExperimentResolvedTargets

Lists the resolved targets information of the specified experiment.

Request Syntax

```
GET /experiments/id/resolvedTargets?  
maxResults=maxResults&nextToken=nextToken&targetName=targetName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the experiment.

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: Yes

maxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\S]+`

targetName

The name of the target.

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "resolvedTargets": [
    {
      "resourceType": "string",
      "targetInformation": {
        "string" : "string"
      },
      "targetName": "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

The token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\S]+`

resolvedTargets

The resolved targets.

Type: Array of [ResolvedTarget](#) objects

Errors

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

ResourceNotFoundException

The specified resource cannot be found.

HTTP Status Code: 404

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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](#)

ListExperiments

Lists your experiments.

Request Syntax

```
GET /experiments?  
experimentTemplateId=experimentTemplateId&maxResults=maxResults&nextToken=nextToken  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

experimentTemplateId

The ID of the experiment template.

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

maxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\S]+`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "experiments": [
    {
      "arn": "string",
      "creationTime": number,
      "experimentOptions": {
        "accountTargeting": "string",
        "actionsMode": "string",
        "emptyTargetResolutionMode": "string"
      },
      "experimentTemplateId": "string",
      "id": "string",
      "state": {
        "reason": "string",
        "status": "string"
      },
      "tags": {
        "string" : "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.

experiments

The experiments.

Type: Array of [ExperimentSummary](#) objects

nextToken

The token to use to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\S]+`

Errors

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

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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](#)

ListExperimentTargetAccountConfigurations

Lists the target account configurations of the specified experiment.

Request Syntax

```
GET /experiments/id/targetAccountConfigurations?nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the experiment.

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: Yes

nextToken

The token for the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\S]+`

Request Body

The request does not have a request body.

Response Syntax

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



```
"nextToken": "string",
"targetAccountConfigurations": [
  {
    "accountId": "string",
    "description": "string",
    "roleArn": "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

The token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\S]+`

targetAccountConfigurations

The target account configurations.

Type: Array of [ExperimentTargetAccountConfigurationSummary](#) objects

Errors

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

ResourceNotFoundException

The specified resource cannot be found.

HTTP Status Code: 404

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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](#)

ListExperimentTemplates

Lists your experiment templates.

Request Syntax

```
GET /experimentTemplates?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\S]+`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "experimentTemplates": [
    {
      "arn": "string",
      "creationTime": number,
```

```
    "description": "string",
    "id": "string",
    "lastUpdateTime": number,
    "tags": {
      "string" : "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.

experimentTemplates

The experiment templates.

Type: Array of [ExperimentTemplateSummary](#) objects

nextToken

The token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\S]+`

Errors

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

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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

Lists the tags for the specified resource.

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) of the resource.

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

Pattern: `[\S]+`

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

The tags for the resource.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]+`

Value Length Constraints: Maximum length of 256.

Value Pattern: `[\s\S]*`

Errors

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

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](#)

ListTargetAccountConfigurations

Lists the target account configurations of the specified experiment template.

Request Syntax

```
GET /experimentTemplates/id/targetAccountConfigurations?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the experiment template.

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: Yes

maxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\S]+`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "targetAccountConfigurations": [
    {
      "accountId": "string",
      "description": "string",
      "roleArn": "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

The token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\S]+`

targetAccountConfigurations

The target account configurations.

Type: Array of [TargetAccountConfigurationSummary](#) objects

Errors

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

ResourceNotFoundException

The specified resource cannot be found.

HTTP Status Code: 404

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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](#)

ListTargetResourceTypes

Lists the target resource types.

Request Syntax

```
GET /targetResourceTypes?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Valid Range: Minimum value of 1. Maximum value of 100.

[nextToken](#)

The token for the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\S]+`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "targetResourceTypes": [
    {
      "description": "string",
```

```
    "resourceType": "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

The token to use to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\S]+`

targetResourceTypes

The target resource types.

Type: Array of [TargetResourceTypeSummary](#) objects

Errors

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

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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](#)

StartExperiment

Starts running an experiment from the specified experiment template.

Request Syntax

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

{
  "clientToken": "string",
  "experimentOptions": {
    "actionsMode": "string"
  },
  "experimentTemplateId": "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

Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\S]+`

Required: Yes

experimentOptions

The experiment options for running the experiment.

Type: [StartExperimentExperimentOptionsInput](#) object

Required: No

[experimentTemplateId](#)

The ID of the experiment template.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: Yes

[tags](#)

The tags to apply to the experiment.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]+`

Value Length Constraints: Maximum length of 256.

Value Pattern: `[\s\S]*`

Required: No

Response Syntax

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

{
  "experiment": {
    "actions": {
      "string": {
        "actionId": "string",
        "description": "string",
        "endTime": number,
```

```
    "parameters": {
      "string": "string"
    },
    "startAfter": [ "string" ],
    "startTime": number,
    "state": {
      "reason": "string",
      "status": "string"
    },
    "targets": {
      "string": "string"
    }
  }
},
"arn": "string",
"creationTime": number,
"endTime": number,
"experimentOptions": {
  "accountTargeting": "string",
  "actionsMode": "string",
  "emptyTargetResolutionMode": "string"
},
"experimentTemplateId": "string",
"id": "string",
"logConfiguration": {
  "cloudWatchLogsConfiguration": {
    "logGroupArn": "string"
  },
  "logSchemaVersion": number,
  "s3Configuration": {
    "bucketName": "string",
    "prefix": "string"
  }
},
"roleArn": "string",
"startTime": number,
"state": {
  "reason": "string",
  "status": "string"
},
"stopConditions": [
  {
    "source": "string",
    "value": "string"
  }
]
```



```

    }
  ],
  "tags": {
    "string" : "string"
  },
  "targetAccountConfigurationsCount": number,
  "targets": {
    "string" : {
      "filters": [
        {
          "path": "string",
          "values": [ "string" ]
        }
      ],
      "parameters": {
        "string" : "string"
      },
      "resourceArns": [ "string" ],
      "resourceTags": {
        "string" : "string"
      },
      "resourceType": "string",
      "selectionMode": "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.

experiment

Information about the experiment.

Type: [Experiment](#) object

Errors

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

ConflictException

The request could not be processed because of a conflict.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource cannot be found.

HTTP Status Code: 404

ServiceQuotaExceededException

You have exceeded your service quota.

HTTP Status Code: 402

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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](#)

StopExperiment

Stops the specified experiment.

Request Syntax

```
DELETE /experiments/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the experiment.

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "experiment": {
    "actions": {
      "string" : {
        "actionId": "string",
        "description": "string",
        "endTime": number,
        "parameters": {
          "string" : "string"
        },
        "startAfter": [ "string" ],

```

```
    "startTime": number,
    "state": {
      "reason": "string",
      "status": "string"
    },
    "targets": {
      "string": "string"
    }
  }
},
"arn": "string",
"creationTime": number,
"endTime": number,
"experimentOptions": {
  "accountTargeting": "string",
  "actionsMode": "string",
  "emptyTargetResolutionMode": "string"
},
"experimentTemplateId": "string",
"id": "string",
"logConfiguration": {
  "cloudWatchLogsConfiguration": {
    "logGroupArn": "string"
  },
  "logSchemaVersion": number,
  "s3Configuration": {
    "bucketName": "string",
    "prefix": "string"
  }
},
"roleArn": "string",
"startTime": number,
"state": {
  "reason": "string",
  "status": "string"
},
"stopConditions": [
  {
    "source": "string",
    "value": "string"
  }
],
"tags": {
  "string": "string"
}
```

```
    },
    "targetAccountConfigurationsCount": number,
    "targets": {
      "string": {
        "filters": [
          {
            "path": "string",
            "values": [ "string" ]
          }
        ],
        "parameters": {
          "string": "string"
        },
        "resourceArns": [ "string" ],
        "resourceTags": {
          "string": "string"
        },
        "resourceType": "string",
        "selectionMode": "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.

experiment

Information about the experiment.

Type: [Experiment](#) object

Errors

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

ResourceNotFoundException

The specified resource cannot be found.

HTTP Status Code: 404

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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

Applies the specified tags to the specified 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 Amazon Resource Name (ARN) of the resource.

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

Pattern: `[\S]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

The tags for the resource.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]+`

Value Length Constraints: Maximum length of 256.

Value Pattern: `[\s\S]*`

Required: Yes

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](#).

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 the specified tags from the specified resource.

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[resourceArn](#)

The Amazon Resource Name (ARN) of the resource.

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

Pattern: `[\S]+`

Required: Yes

[tagKeys](#)

The tag keys to remove.

Length Constraints: Maximum length of 128.

Pattern: `[\s\S]+`

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](#).

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](#)

UpdateExperimentTemplate

Updates the specified experiment template.

Request Syntax

```
PATCH /experimentTemplates/id HTTP/1.1
Content-type: application/json
```

```
{
  "actions": {
    "string": {
      "actionId": "string",
      "description": "string",
      "parameters": {
        "string": "string"
      },
      "startAfter": [ "string" ],
      "targets": {
        "string": "string"
      }
    }
  },
  "description": "string",
  "experimentOptions": {
    "emptyTargetResolutionMode": "string"
  },
  "logConfiguration": {
    "cloudWatchLogsConfiguration": {
      "logGroupArn": "string"
    },
    "logSchemaVersion": number,
    "s3Configuration": {
      "bucketName": "string",
      "prefix": "string"
    }
  },
  "roleArn": "string",
  "stopConditions": [
    {
      "source": "string",
      "value": "string"
    }
  ]
}
```

```
],
  "targets": {
    "string": {
      "filters": [
        {
          "path": "string",
          "values": [ "string" ]
        }
      ],
      "parameters": {
        "string": "string"
      },
      "resourceArns": [ "string" ],
      "resourceTags": {
        "string": "string"
      },
      "resourceType": "string",
      "selectionMode": "string"
    }
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the experiment template.

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

actions

The actions for the experiment.

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

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Required: No

description

A description for the template.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]+`

Required: No

experimentOptions

The experiment options for the experiment template.

Type: [UpdateExperimentTemplateExperimentOptionsInput](#) object

Required: No

logConfiguration

The configuration for experiment logging.

Type: [UpdateExperimentTemplateLogConfigurationInput](#) object

Required: No

roleArn

The Amazon Resource Name (ARN) of an IAM role that grants the AWS FIS service permission to perform service actions on your behalf.

Type: String

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

Pattern: `[\S]+`

Required: No

stopConditions

The stop conditions for the experiment.

Type: Array of [UpdateExperimentTemplateStopConditionInput](#) objects

Required: No

targets

The targets for the experiment.

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

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "experimentTemplate": {
    "actions": {
      "string" : {
        "actionId": "string",
        "description": "string",
        "parameters": {
          "string" : "string"
        },
        "startAfter": [ "string" ],
        "targets": {
          "string" : "string"
        }
      }
    },
    "arn": "string",
    "creationTime": number,
    "description": "string",
    "experimentOptions": {
```

```

    "accountTargeting": "string",
    "emptyTargetResolutionMode": "string"
  },
  "id": "string",
  "lastUpdateTime": number,
  "logConfiguration": {
    "cloudWatchLogsConfiguration": {
      "logGroupArn": "string"
    },
    "logSchemaVersion": number,
    "s3Configuration": {
      "bucketName": "string",
      "prefix": "string"
    }
  },
  "roleArn": "string",
  "stopConditions": [
    {
      "source": "string",
      "value": "string"
    }
  ],
  "tags": {
    "string" : "string"
  },
  "targetAccountConfigurationsCount": number,
  "targets": {
    "string" : {
      "filters": [
        {
          "path": "string",
          "values": [ "string" ]
        }
      ],
      "parameters": {
        "string" : "string"
      },
      "resourceArns": [ "string" ],
      "resourceTags": {
        "string" : "string"
      },
      "resourceType": "string",
      "selectionMode": "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.

[experimentTemplate](#)

Information about the experiment template.

Type: [ExperimentTemplate](#) object

Errors

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

ResourceNotFoundException

The specified resource cannot be found.

HTTP Status Code: 404

ServiceQuotaExceededException

You have exceeded your service quota.

HTTP Status Code: 402

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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](#)

UpdateTargetAccountConfiguration

Updates the target account configuration for the specified experiment template.

Request Syntax

```
PATCH /experimentTemplates/id/targetAccountConfigurations/accountId HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "roleArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

accountId

The AWS account ID of the target account.

Length Constraints: Minimum length of 12. Maximum length of 48.

Pattern: `[\S]+`

Required: Yes

id

The ID of the experiment template.

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

The description of the target account.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]*`

Required: No

roleArn

The Amazon Resource Name (ARN) of an IAM role for the target account.

Type: String

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

Pattern: `[\S]+`

Required: No

Response Syntax

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

{
  "targetAccountConfiguration": {
    "accountId": "string",
    "description": "string",
    "roleArn": "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.

[targetAccountConfiguration](#)

Information about the target account configuration.

Type: [TargetAccountConfiguration](#) object

Errors

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

ResourceNotFoundException

The specified resource cannot be found.

HTTP Status Code: 404

ValidationException

The specified input is not valid, or fails to satisfy the constraints for the request.

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 AWS Fault Injection Simulator 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:

- [Action](#)
- [ActionParameter](#)
- [ActionSummary](#)
- [ActionTarget](#)
- [CreateExperimentTemplateActionInput](#)
- [CreateExperimentTemplateExperimentOptionsInput](#)
- [CreateExperimentTemplateLogConfigurationInput](#)
- [CreateExperimentTemplateStopConditionInput](#)
- [CreateExperimentTemplateTargetInput](#)
- [Experiment](#)
- [ExperimentAction](#)
- [ExperimentActionState](#)
- [ExperimentCloudWatchLogsLogConfiguration](#)
- [ExperimentLogConfiguration](#)
- [ExperimentOptions](#)
- [ExperimentS3LogConfiguration](#)
- [ExperimentState](#)
- [ExperimentStopCondition](#)
- [ExperimentSummary](#)
- [ExperimentTarget](#)

- [ExperimentTargetAccountConfiguration](#)
- [ExperimentTargetAccountConfigurationSummary](#)
- [ExperimentTargetFilter](#)
- [ExperimentTemplate](#)
- [ExperimentTemplateAction](#)
- [ExperimentTemplateCloudWatchLogsLogConfiguration](#)
- [ExperimentTemplateCloudWatchLogsLogConfigurationInput](#)
- [ExperimentTemplateExperimentOptions](#)
- [ExperimentTemplateLogConfiguration](#)
- [ExperimentTemplateS3LogConfiguration](#)
- [ExperimentTemplateS3LogConfigurationInput](#)
- [ExperimentTemplateStopCondition](#)
- [ExperimentTemplateSummary](#)
- [ExperimentTemplateTarget](#)
- [ExperimentTemplateTargetFilter](#)
- [ExperimentTemplateTargetInputFilter](#)
- [ResolvedTarget](#)
- [StartExperimentExperimentOptionsInput](#)
- [TargetAccountConfiguration](#)
- [TargetAccountConfigurationSummary](#)
- [TargetResourceType](#)
- [TargetResourceTypeParameter](#)
- [TargetResourceTypeSummary](#)
- [UpdateExperimentTemplateActionInputItem](#)
- [UpdateExperimentTemplateExperimentOptionsInput](#)
- [UpdateExperimentTemplateLogConfigurationInput](#)
- [UpdateExperimentTemplateStopConditionInput](#)
- [UpdateExperimentTemplateTargetInput](#)

Action

Describes an action. For more information, see [AWS FIS actions](#) in the *AWS Fault Injection Service User Guide*.

Contents

arn

The Amazon Resource Name (ARN) of the action.

Type: String

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

Pattern: `[\S]+`

Required: No

description

The description for the action.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]+`

Required: No

id

The ID of the action.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

Required: No

parameters

The action parameters, if applicable.

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

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Required: No

tags

The tags for the action.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]+`

Value Length Constraints: Maximum length of 256.

Value Pattern: `[\s\S]*`

Required: No

targets

The supported targets for the action.

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

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

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](#)

ActionParameter

Describes a parameter for an action.

Contents

description

The parameter description.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]+`

Required: No

required

Indicates whether the parameter is required.

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](#)

ActionSummary

Provides a summary of an action.

Contents

arn

The Amazon Resource Name (ARN) of the action.

Type: String

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

Pattern: `[\S]+`

Required: No

description

The description for the action.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]+`

Required: No

id

The ID of the action.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

Required: No

tags

The tags for the action.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]+`

Value Length Constraints: Maximum length of 256.

Value Pattern: `[\s\S]*`

Required: No

targets

The targets for the action.

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

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

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](#)

ActionTarget

Describes a target for an action.

Contents

resourceType

The resource type of the target.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

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](#)

CreateExperimentTemplateActionInput

Specifies an action for an experiment template.

For more information, see [Actions](#) in the *AWS Fault Injection Service User Guide*.

Contents

actionId

The ID of the action. The format of the action ID is: `aws:service-name:action-type`.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

Required: Yes

description

A description for the action.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]+`

Required: No

parameters

The parameters for the action, if applicable.

Type: String to string map

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Value Length Constraints: Maximum length of 1024.

Value Pattern: `[\S]+`

Required: No

startAfter

The name of the action that must be completed before the current action starts. Omit this parameter to run the action at the start of the experiment.

Type: Array of strings

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: No

targets

The targets for the action.

Type: String to string map

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Value Length Constraints: Maximum length of 64.

Value Pattern: `[\S]+`

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](#)

CreateExperimentTemplateExperimentOptionsInput

Specifies experiment options for an experiment template.

Contents

accountTargeting

Specifies the account targeting setting for experiment options.

Type: String

Valid Values: `single-account` | `multi-account`

Required: No

emptyTargetResolutionMode

Specifies the empty target resolution mode for experiment options.

Type: String

Valid Values: `fail` | `skip`

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](#)

CreateExperimentTemplateLogConfigurationInput

Specifies the configuration for experiment logging.

Contents

logSchemaVersion

The schema version.

Type: Integer

Required: Yes

cloudWatchLogsConfiguration

The configuration for experiment logging to Amazon CloudWatch Logs.

Type: [ExperimentTemplateCloudWatchLogsLogConfigurationInput](#) object

Required: No

s3Configuration

The configuration for experiment logging to Amazon S3.

Type: [ExperimentTemplateS3LogConfigurationInput](#) 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](#)

CreateExperimentTemplateStopConditionInput

Specifies a stop condition for an experiment template.

Contents

source

The source for the stop condition. Specify `aws:cloudwatch:alarm` if the stop condition is defined by a CloudWatch alarm. Specify `none` if there is no stop condition.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: Yes

value

The Amazon Resource Name (ARN) of the CloudWatch alarm. This is required if the source is a CloudWatch alarm.

Type: String

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

Pattern: `[\s\S]+`

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](#)

CreateExperimentTemplateTargetInput

Specifies a target for an experiment. You must specify at least one Amazon Resource Name (ARN) or at least one resource tag. You cannot specify both ARNs and tags.

For more information, see [Targets](#) in the *AWS Fault Injection Service User Guide*.

Contents

resourceType

The resource type. The resource type must be supported for the specified action.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

Required: Yes

selectionMode

Scopes the identified resources to a specific count of the resources at random, or a percentage of the resources. All identified resources are included in the target.

- ALL - Run the action on all identified targets. This is the default.
- COUNT(n) - Run the action on the specified number of targets, chosen from the identified targets at random. For example, COUNT(1) selects one of the targets.
- PERCENT(n) - Run the action on the specified percentage of targets, chosen from the identified targets at random. For example, PERCENT(25) selects 25% of the targets.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: Yes

filters

The filters to apply to identify target resources using specific attributes.

Type: Array of [ExperimentTemplateTargetInputFilter](#) objects

Required: No

parameters

The resource type parameters.

Type: String to string map

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Value Length Constraints: Minimum length of 1. Maximum length of 1024.

Value Pattern: `^[\p{L}\p{Z}\p{N}_ . : / = + \ - @] + $`

Required: No

resourceArns

The Amazon Resource Names (ARNs) of the resources.

Type: Array of strings

Array Members: Maximum number of 5 items.

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

Pattern: `[\S]+`

Required: No

resourceTags

The tags for the target resources.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]+`

Value Length Constraints: Maximum length of 256.

Value Pattern: `[\s\S]*`

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](#)

Experiment

Describes an experiment.

Contents

actions

The actions for the experiment.

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

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Required: No

arn

The Amazon Resource Name (ARN) of the experiment.

Type: String

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

Pattern: `[\S]+`

Required: No

creationTime

The time that the experiment was created.

Type: Timestamp

Required: No

endTime

The time that the experiment ended.

Type: Timestamp

Required: No

experimentOptions

The experiment options for the experiment.

Type: [ExperimentOptions](#) object

Required: No

experimentTemplateId

The ID of the experiment template.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: No

id

The ID of the experiment.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: No

logConfiguration

The configuration for experiment logging.

Type: [ExperimentLogConfiguration](#) object

Required: No

roleArn

The Amazon Resource Name (ARN) of an IAM role that grants the AWS FIS service permission to perform service actions on your behalf.

Type: String

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

Pattern: `[\S]+`

Required: No

startTime

The time that the experiment started.

Type: Timestamp

Required: No

state

The state of the experiment.

Type: [ExperimentState](#) object

Required: No

stopConditions

The stop conditions for the experiment.

Type: Array of [ExperimentStopCondition](#) objects

Required: No

tags

The tags for the experiment.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]+`

Value Length Constraints: Maximum length of 256.

Value Pattern: `[\s\S]*`

Required: No

targetAccountConfigurationsCount

The count of target account configurations for the experiment.

Type: Long

Valid Range: Minimum value of 0.

Required: No

targets

The targets for the experiment.

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

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

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](#)

ExperimentAction

Describes the action for an experiment.

Contents

actionId

The ID of the action.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

Required: No

description

The description for the action.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]+`

Required: No

endTime

The time that the action ended.

Type: Timestamp

Required: No

parameters

The parameters for the action.

Type: String to string map

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Value Length Constraints: Maximum length of 1024.

Value Pattern: `[\S]+`

Required: No

startAfter

The name of the action that must be completed before this action starts.

Type: Array of strings

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: No

startTime

The time that the action started.

Type: Timestamp

Required: No

state

The state of the action.

Type: [ExperimentActionState](#) object

Required: No

targets

The targets for the action.

Type: String to string map

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Value Length Constraints: Maximum length of 64.

Value Pattern: `[\S]+`

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](#)

ExperimentActionState

Describes the state of an action.

Contents

reason

The reason for the state.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]+`

Required: No

status

The state of the action.

Type: String

Valid Values: `pending` | `initiating` | `running` | `completed` | `cancelled` | `stopping` | `stopped` | `failed` | `skipped`

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](#)

ExperimentCloudWatchLogsLogConfiguration

Describes the configuration for experiment logging to Amazon CloudWatch Logs.

Contents

logGroupArn

The Amazon Resource Name (ARN) of the destination Amazon CloudWatch Logs log group.

Type: String

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

Pattern: `[\S]+`

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](#)

ExperimentLogConfiguration

Describes the configuration for experiment logging.

Contents

cloudWatchLogsConfiguration

The configuration for experiment logging to Amazon CloudWatch Logs.

Type: [ExperimentCloudWatchLogsLogConfiguration](#) object

Required: No

logSchemaVersion

The schema version.

Type: Integer

Required: No

s3Configuration

The configuration for experiment logging to Amazon S3.

Type: [ExperimentS3LogConfiguration](#) 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](#)

ExperimentOptions

Describes the options for an experiment.

Contents

accountTargeting

The account targeting setting for an experiment.

Type: String

Valid Values: `single-account` | `multi-account`

Required: No

actionsMode

The actions mode of the experiment that is set from the StartExperiment API command.

Type: String

Valid Values: `skip-all` | `run-all`

Required: No

emptyTargetResolutionMode

The empty target resolution mode for an experiment.

Type: String

Valid Values: `fail` | `skip`

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](#)

ExperimentS3LogConfiguration

Describes the configuration for experiment logging to Amazon S3.

Contents

bucketName

The name of the destination bucket.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `[\S]+`

Required: No

prefix

The bucket prefix.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\s\S]+`

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](#)

ExperimentState

Describes the state of an experiment.

Contents

reason

The reason for the state.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]+`

Required: No

status

The state of the experiment.

Type: String

Valid Values: `pending | initiating | running | completed | stopping | stopped | 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](#)

ExperimentStopCondition

Describes the stop condition for an experiment.

Contents

source

The source for the stop condition.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: No

value

The Amazon Resource Name (ARN) of the CloudWatch alarm, if applicable.

Type: String

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

Pattern: `[\s\S]+`

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](#)

ExperimentSummary

Provides a summary of an experiment.

Contents

arn

The Amazon Resource Name (ARN) of the experiment.

Type: String

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

Pattern: `[\S]+`

Required: No

creationTime

The time that the experiment was created.

Type: Timestamp

Required: No

experimentOptions

The experiment options for the experiment.

Type: [ExperimentOptions](#) object

Required: No

experimentTemplateId

The ID of the experiment template.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: No

id

The ID of the experiment.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: No

state

The state of the experiment.

Type: [ExperimentState](#) object

Required: No

tags

The tags for the experiment.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]+`

Value Length Constraints: Maximum length of 256.

Value Pattern: `[\s\S]*`

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](#)

ExperimentTarget

Describes a target for an experiment.

Contents

filters

The filters to apply to identify target resources using specific attributes.

Type: Array of [ExperimentTargetFilter](#) objects

Required: No

parameters

The resource type parameters.

Type: String to string map

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Value Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

resourceArns

The Amazon Resource Names (ARNs) of the resources.

Type: Array of strings

Array Members: Maximum number of 5 items.

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

Pattern: `[\S]+`

Required: No

resourceTags

The tags for the target resources.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]+`

Value Length Constraints: Maximum length of 256.

Value Pattern: `[\s\S]*`

Required: No

resourceType

The resource type.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

Required: No

selectionMode

Scopes the identified resources to a specific count or percentage.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

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](#)

ExperimentTargetAccountConfiguration

Describes a target account configuration for an experiment.

Contents

accountId

The AWS account ID of the target account.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 48.

Pattern: `[\S]+`

Required: No

description

The description of the target account.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]*`

Required: No

roleArn

The Amazon Resource Name (ARN) of an IAM role for the target account.

Type: String

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

Pattern: `[\S]+`

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](#)

ExperimentTargetAccountConfigurationSummary

Provides a summary of a target account configuration.

Contents

accountId

The AWS account ID of the target account.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 48.

Pattern: `[\S]+`

Required: No

description

The description of the target account.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]*`

Required: No

roleArn

The Amazon Resource Name (ARN) of an IAM role for the target account.

Type: String

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

Pattern: `[\S]+`

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](#)

ExperimentTargetFilter

Describes a filter used for the target resources in an experiment.

Contents

path

The attribute path for the filter.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `[\S]+`

Required: No

values

The attribute values for the filter.

Type: Array of strings

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

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](#)

ExperimentTemplate

Describes an experiment template.

Contents

actions

The actions for the experiment.

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

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Required: No

arn

The Amazon Resource Name (ARN) of the experiment template.

Type: String

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

Pattern: `[\S]+`

Required: No

creationTime

The time the experiment template was created.

Type: Timestamp

Required: No

description

The description for the experiment template.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]+`

Required: No

experimentOptions

The experiment options for an experiment template.

Type: [ExperimentTemplateExperimentOptions](#) object

Required: No

id

The ID of the experiment template.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: No

lastUpdateTime

The time the experiment template was last updated.

Type: Timestamp

Required: No

logConfiguration

The configuration for experiment logging.

Type: [ExperimentTemplateLogConfiguration](#) object

Required: No

roleArn

The Amazon Resource Name (ARN) of an IAM role.

Type: String

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

Pattern: `[\S]+`

Required: No

stopConditions

The stop conditions for the experiment.

Type: Array of [ExperimentTemplateStopCondition](#) objects

Required: No

tags

The tags for the experiment template.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]+`

Value Length Constraints: Maximum length of 256.

Value Pattern: `[\s\S]*`

Required: No

targetAccountConfigurationsCount

The count of target account configurations for the experiment template.

Type: Long

Valid Range: Minimum value of 0.

Required: No

targets

The targets for the experiment.

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

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

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](#)

ExperimentTemplateAction

Describes an action for an experiment template.

Contents

actionId

The ID of the action.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

Required: No

description

A description for the action.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]+`

Required: No

parameters

The parameters for the action.

Type: String to string map

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Value Length Constraints: Maximum length of 1024.

Value Pattern: `[\S]+`

Required: No

startAfter

The name of the action that must be completed before the current action starts.

Type: Array of strings

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: No

targets

The targets for the action.

Type: String to string map

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Value Length Constraints: Maximum length of 64.

Value Pattern: `[\S]+`

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](#)

ExperimentTemplateCloudWatchLogsLogConfiguration

Describes the configuration for experiment logging to Amazon CloudWatch Logs.

Contents

logGroupArn

The Amazon Resource Name (ARN) of the destination Amazon CloudWatch Logs log group.

Type: String

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

Pattern: `[\S]+`

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](#)

ExperimentTemplateCloudWatchLogsLogConfigurationInput

Specifies the configuration for experiment logging to Amazon CloudWatch Logs.

Contents

logGroupArn

The Amazon Resource Name (ARN) of the destination Amazon CloudWatch Logs log group.

Type: String

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

Pattern: `[\S]+`

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](#)

ExperimentTemplateExperimentOptions

Describes the experiment options for an experiment template.

Contents

accountTargeting

The account targeting setting for an experiment template.

Type: String

Valid Values: `single-account` | `multi-account`

Required: No

emptyTargetResolutionMode

The empty target resolution mode for an experiment template.

Type: String

Valid Values: `fail` | `skip`

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](#)

ExperimentTemplateLogConfiguration

Describes the configuration for experiment logging.

Contents

cloudWatchLogsConfiguration

The configuration for experiment logging to Amazon CloudWatch Logs.

Type: [ExperimentTemplateCloudWatchLogsLogConfiguration](#) object

Required: No

logSchemaVersion

The schema version.

Type: Integer

Required: No

s3Configuration

The configuration for experiment logging to Amazon S3.

Type: [ExperimentTemplateS3LogConfiguration](#) 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](#)

ExperimentTemplateS3LogConfiguration

Describes the configuration for experiment logging to Amazon S3.

Contents

bucketName

The name of the destination bucket.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `[\S]+`

Required: No

prefix

The bucket prefix.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\s\S]+`

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](#)

ExperimentTemplateS3LogConfigurationInput

Specifies the configuration for experiment logging to Amazon S3.

Contents

bucketName

The name of the destination bucket.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `[\S]+`

Required: Yes

prefix

The bucket prefix.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\s\S]+`

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](#)

ExperimentTemplateStopCondition

Describes a stop condition for an experiment template.

Contents

source

The source for the stop condition.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: No

value

The Amazon Resource Name (ARN) of the CloudWatch alarm, if applicable.

Type: String

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

Pattern: `[\s\S]+`

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](#)

ExperimentTemplateSummary

Provides a summary of an experiment template.

Contents

arn

The Amazon Resource Name (ARN) of the experiment template.

Type: String

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

Pattern: `[\S]+`

Required: No

creationTime

The time that the experiment template was created.

Type: Timestamp

Required: No

description

The description of the experiment template.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]+`

Required: No

id

The ID of the experiment template.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: No

lastUpdateTime

The time that the experiment template was last updated.

Type: Timestamp

Required: No

tags

The tags for the experiment template.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]+`

Value Length Constraints: Maximum length of 256.

Value Pattern: `[\s\S]*`

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](#)

ExperimentTemplateTarget

Describes a target for an experiment template.

Contents

filters

The filters to apply to identify target resources using specific attributes.

Type: Array of [ExperimentTemplateTargetFilter](#) objects

Required: No

parameters

The resource type parameters.

Type: String to string map

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Value Length Constraints: Minimum length of 1. Maximum length of 1024.

Value Pattern: `^\[\p{L}\p{Z}\p{N}_\.:\/=\-\@]+\`

Required: No

resourceArns

The Amazon Resource Names (ARNs) of the targets.

Type: Array of strings

Array Members: Maximum number of 5 items.

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

Pattern: `[\S]+`

Required: No

resourceTags

The tags for the target resources.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]+`

Value Length Constraints: Maximum length of 256.

Value Pattern: `[\s\S]*`

Required: No

resourceType

The resource type.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

Required: No

selectionMode

Scopes the identified resources to a specific count or percentage.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

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](#)

ExperimentTemplateTargetFilter

Describes a filter used for the target resources in an experiment template.

Contents

path

The attribute path for the filter.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `[\S]+`

Required: No

values

The attribute values for the filter.

Type: Array of strings

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

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](#)

ExperimentTemplateTargetInputFilter

Specifies a filter used for the target resource input in an experiment template.

For more information, see [Resource filters](#) in the *AWS Fault Injection Service User Guide*.

Contents

path

The attribute path for the filter.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `[\S]+`

Required: Yes

values

The attribute values for the filter.

Type: Array of strings

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

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](#)

ResolvedTarget

Describes a resolved target.

Contents

resourceType

The resource type of the target.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

Required: No

targetInformation

Information about the target.

Type: String to string map

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Value Length Constraints: Maximum length of 2048.

Value Pattern: `[\S]+`

Required: No

targetName

The name of the target.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

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](#)

StartExperimentExperimentOptionsInput

Specifies experiment options for running an experiment.

Contents

actionsMode

Specifies the actions mode for experiment options.

Type: String

Valid Values: skip-all | run-all

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](#)

TargetAccountConfiguration

Describes a target account configuration.

Contents

accountId

The AWS account ID of the target account.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 48.

Pattern: `[\S]+`

Required: No

description

The description of the target account.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]*`

Required: No

roleArn

The Amazon Resource Name (ARN) of an IAM role for the target account.

Type: String

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

Pattern: `[\S]+`

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](#)

TargetAccountConfigurationSummary

Provides a summary of a target account configuration.

Contents

accountId

The AWS account ID of the target account.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 48.

Pattern: `[\S]+`

Required: No

description

The description of the target account.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]*`

Required: No

roleArn

The Amazon Resource Name (ARN) of an IAM role for the target account.

Type: String

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

Pattern: `[\S]+`

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](#)

TargetResourceType

Describes a resource type.

Contents

description

A description of the resource type.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]+`

Required: No

parameters

The parameters for the resource type.

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

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Required: No

resourceType

The resource type.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

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](#)

TargetResourceTypeParameter

Describes the parameters for a resource type. Use parameters to determine which tasks are identified during target resolution.

Contents

description

A description of the parameter.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]+`

Required: No

required

Indicates whether the parameter is required.

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](#)

TargetResourceTypeSummary

Describes a resource type.

Contents

description

A description of the resource type.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]+`

Required: No

resourceType

The resource type.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

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](#)

UpdateExperimentTemplateActionInputItem

Specifies an action for an experiment template.

Contents

actionId

The ID of the action.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

Required: No

description

A description for the action.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]+`

Required: No

parameters

The parameters for the action, if applicable.

Type: String to string map

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Value Length Constraints: Maximum length of 1024.

Value Pattern: `[\S]+`

Required: No

startAfter

The name of the action that must be completed before the current action starts. Omit this parameter to run the action at the start of the experiment.

Type: Array of strings

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: No

targets

The targets for the action.

Type: String to string map

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Value Length Constraints: Maximum length of 64.

Value Pattern: `[\S]+`

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](#)

UpdateExperimentTemplateExperimentOptionsInput

Specifies an experiment option for an experiment template.

Contents

emptyTargetResolutionMode

The empty target resolution mode of the experiment template.

Type: String

Valid Values: `fail` | `skip`

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](#)

UpdateExperimentTemplateLogConfigurationInput

Specifies the configuration for experiment logging.

Contents

cloudWatchLogsConfiguration

The configuration for experiment logging to Amazon CloudWatch Logs.

Type: [ExperimentTemplateCloudWatchLogsLogConfigurationInput](#) object

Required: No

logSchemaVersion

The schema version.

Type: Integer

Required: No

s3Configuration

The configuration for experiment logging to Amazon S3.

Type: [ExperimentTemplateS3LogConfigurationInput](#) 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](#)

UpdateExperimentTemplateStopConditionInput

Specifies a stop condition for an experiment. You can define a stop condition as a CloudWatch alarm.

Contents

source

The source for the stop condition. Specify `aws:cloudwatch:alarm` if the stop condition is defined by a CloudWatch alarm. Specify `none` if there is no stop condition.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: Yes

value

The Amazon Resource Name (ARN) of the CloudWatch alarm.

Type: String

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

Pattern: `[\s\S]+`

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](#)

UpdateExperimentTemplateTargetInput

Specifies a target for an experiment. You must specify at least one Amazon Resource Name (ARN) or at least one resource tag. You cannot specify both.

Contents

resourceType

The resource type. The resource type must be supported for the specified action.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\S]+`

Required: Yes

selectionMode

Scopes the identified resources to a specific count or percentage.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[\S]+`

Required: Yes

filters

The filters to apply to identify target resources using specific attributes.

Type: Array of [ExperimentTemplateTargetInputFilter](#) objects

Required: No

parameters

The resource type parameters.

Type: String to string map

Key Length Constraints: Maximum length of 64.

Key Pattern: `[\S]+`

Value Length Constraints: Minimum length of 1. Maximum length of 1024.

Value Pattern: `^\p{L}\p{Z}\p{N}_.: / = + \ - @] + $`

Required: No

resourceArns

The Amazon Resource Names (ARNs) of the targets.

Type: Array of strings

Array Members: Maximum number of 5 items.

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

Pattern: `[\S]+`

Required: No

resourceTags

The tags for the target resources.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]+`

Value Length Constraints: Maximum length of 256.

Value Pattern: `[\s\S]*`

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