



API Reference

AWS Lambda MicroVMs



API Version 2025-09-09

Copyright © 2026 Amazon Web Services, Inc. and/or its affiliates. All rights reserved.

AWS Lambda MicroVMs: API Reference

Copyright © 2026 Amazon Web Services, Inc. and/or its affiliates. All rights reserved.

Amazon's trademarks and trade dress may not be used in connection with any product or service that is not Amazon's, in any manner that is likely to cause confusion among customers, or in any manner that disparages or discredits Amazon. All other trademarks not owned by Amazon are the property of their respective owners, who may or may not be affiliated with, connected to, or sponsored by Amazon.

Table of Contents

Welcome	1
Actions	2
CreateMicrovmAuthToken	3
Request Syntax	3
URI Request Parameters	3
Request Body	3
Response Syntax	4
Response Elements	4
Errors	5
See Also	6
CreateMicrovmImage	7
Request Syntax	7
URI Request Parameters	8
Request Body	8
Response Syntax	12
Response Elements	13
Errors	17
See Also	19
CreateMicrovmShellAuthToken	21
Request Syntax	21
URI Request Parameters	21
Request Body	21
Response Syntax	22
Response Elements	22
Errors	22
See Also	24
DeleteMicrovmImage	25
Request Syntax	25
URI Request Parameters	25
Request Body	25
Response Syntax	25
Response Elements	25
Errors	26
See Also	27

DeleteMicrovmImageVersion	29
Request Syntax	29
URI Request Parameters	29
Request Body	29
Response Syntax	29
Response Elements	30
Errors	30
See Also	32
GetMicrovm	33
Request Syntax	33
URI Request Parameters	33
Request Body	33
Response Syntax	33
Response Elements	34
Errors	36
See Also	37
GetMicrovmImage	39
Request Syntax	39
URI Request Parameters	39
Request Body	39
Response Syntax	39
Response Elements	40
Errors	41
See Also	43
GetMicrovmImageBuild	44
Request Syntax	44
URI Request Parameters	44
Request Body	45
Response Syntax	45
Response Elements	45
Errors	47
See Also	48
GetMicrovmImageVersion	50
Request Syntax	50
URI Request Parameters	50
Request Body	50

Response Syntax	50
Response Elements	52
Errors	56
See Also	57
ListManagedMicrovmImages	58
Request Syntax	58
URI Request Parameters	58
Request Body	58
Response Syntax	58
Response Elements	59
Errors	59
See Also	60
ListManagedMicrovmImageVersions	61
Request Syntax	61
URI Request Parameters	61
Request Body	61
Response Syntax	61
Response Elements	62
Errors	62
See Also	63
ListMicrovmImageBuilds	65
Request Syntax	65
URI Request Parameters	65
Request Body	66
Response Syntax	66
Response Elements	67
Errors	67
See Also	68
ListMicrovmImages	70
Request Syntax	70
URI Request Parameters	70
Request Body	70
Response Syntax	70
Response Elements	71
Errors	71
See Also	72

ListMicrovmImageVersions	74
Request Syntax	74
URI Request Parameters	74
Request Body	74
Response Syntax	74
Response Elements	76
Errors	76
See Also	77
ListMicrovms	79
Request Syntax	79
URI Request Parameters	79
Request Body	79
Response Syntax	79
Response Elements	80
Errors	80
See Also	82
ListTags	83
Request Syntax	83
URI Request Parameters	83
Request Body	83
Response Syntax	83
Response Elements	84
Errors	84
See Also	85
ResumeMicrovm	87
Request Syntax	87
URI Request Parameters	87
Request Body	87
Response Syntax	87
Response Elements	87
Errors	87
See Also	89
RunMicrovm	90
Request Syntax	90
URI Request Parameters	90
Request Body	90

Response Syntax	93
Response Elements	93
Errors	96
See Also	98
SuspendMicrovm	99
Request Syntax	99
URI Request Parameters	99
Request Body	99
Response Syntax	99
Response Elements	99
Errors	99
See Also	101
TagResource	102
Request Syntax	102
URI Request Parameters	102
Request Body	102
Response Syntax	103
Response Elements	103
Errors	103
See Also	104
TerminateMicrovm	106
Request Syntax	106
URI Request Parameters	106
Request Body	106
Response Syntax	106
Response Elements	106
Errors	106
See Also	108
UntagResource	109
Request Syntax	109
URI Request Parameters	109
Request Body	109
Response Syntax	110
Response Elements	110
Errors	110
See Also	111

UpdateMicrovmImage	112
Request Syntax	112
URI Request Parameters	113
Request Body	113
Response Syntax	116
Response Elements	117
Errors	121
See Also	123
UpdateMicrovmImageVersion	125
Request Syntax	125
URI Request Parameters	125
Request Body	125
Response Syntax	126
Response Elements	127
Errors	131
See Also	132
Data Types	134
CloudWatchLogging	135
Contents	135
See Also	135
CodeArtifact	136
Contents	136
See Also	136
CpuConfiguration	137
Contents	137
See Also	137
Hooks	138
Contents	138
See Also	138
IdlePolicy	139
Contents	139
See Also	139
Logging	141
Contents	141
See Also	141
LoggingDisabled	142

Contents	142
See Also	142
ManagedMicrovmImageSummary	143
Contents	143
See Also	143
ManagedMicrovmImageVersion	145
Contents	145
See Also	146
MicrovmHooks	147
Contents	147
See Also	148
MicrovmImageBuildSummary	150
Contents	150
See Also	152
MicrovmImageHooks	153
Contents	153
See Also	154
MicrovmImageSummary	155
Contents	155
See Also	156
MicrovmImageVersionSummary	157
Contents	157
See Also	161
MicrovmItem	162
Contents	162
See Also	163
PortRange	164
Contents	164
See Also	164
PortSpecification	165
Contents	165
See Also	165
Resources	167
Contents	167
See Also	167
SnapshotBuild	168

Contents	168
See Also	168
Common Parameters	169
Common Error Types	172

Welcome

Provides APIs to create, manage, and operate AWS Lambda MicroVMs and their associated MicroVM Image environments.

This document was last published on July 1, 2026.

Actions

The following actions are supported:

- [CreateMicrovmAuthToken](#)
- [CreateMicrovmImage](#)
- [CreateMicrovmShellAuthToken](#)
- [DeleteMicrovmImage](#)
- [DeleteMicrovmImageVersion](#)
- [GetMicrovm](#)
- [GetMicrovmImage](#)
- [GetMicrovmImageBuild](#)
- [GetMicrovmImageVersion](#)
- [ListManagedMicrovmImages](#)
- [ListManagedMicrovmImageVersions](#)
- [ListMicrovmImageBuilds](#)
- [ListMicrovmImages](#)
- [ListMicrovmImageVersions](#)
- [ListMicrovms](#)
- [ListTags](#)
- [ResumeMicrovm](#)
- [RunMicrovm](#)
- [SuspendMicrovm](#)
- [TagResource](#)
- [TerminateMicrovm](#)
- [UntagResource](#)
- [UpdateMicrovmImage](#)
- [UpdateMicrovmImageVersion](#)

CreateMicrovmAuthToken

Creates an authentication token for accessing a running MicroVM. The token grants access to the specified ports on the MicroVM endpoint.

Request Syntax

```
POST /2025-09-09/microvms/microvmIdentifier/auth-token HTTP/1.1
Content-type: application/json

{
  "allowedPorts": [
    { ... }
  ],
  "expirationInMinutes": number
}
```

URI Request Parameters

The request uses the following URI parameters.

microvmIdentifier

The ID of the MicroVM to create an authentication token for.

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

allowedPorts

The list of port specifications that the authentication token grants access to on the MicroVM.

Type: Array of [PortSpecification](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

expirationInMinutes

The duration in minutes before the authentication token expires. Maximum: 60 minutes.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

Response Syntax

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

{
  "authToken": {
    "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.

authToken

A map containing the authentication token. Use the value at key "X-aws-proxy-auth" as the header value when connecting to the MicroVM endpoint.

Type: String to string map

Map Entries: Maximum number of 10 items.

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

Key Pattern: [^\s]+

Value Length Constraints: Minimum length of 0. Maximum length of 8000.

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateMicrovmImage

Creates a MicroVM image from the specified code artifact and base image. The build is asynchronous — the image transitions from CREATING to CREATED on success, or CREATE_FAILED on failure. Use GetMicrovmImage to poll for completion.

Request Syntax

```
POST /2025-09-09/microvm-images HTTP/1.1
Content-type: application/json

{
  "additionalOsCapabilities": [ string ],
  "baseImageArn": string,
  "baseImageVersion": string,
  "buildRoleArn": string,
  "clientToken": string,
  "codeArtifact": { ... },
  "cpuConfigurations": [
    {
      "architecture": string
    }
  ],
  "description": string,
  "egressNetworkConnectors": [ string ],
  "environmentVariables": {
    string : string
  },
  "hooks": {
    "microvmHooks": {
      "resume": string,
      "resumeTimeoutInSeconds": number,
      "run": string,
      "runTimeoutInSeconds": number,
      "suspend": string,
      "suspendTimeoutInSeconds": number,
      "terminate": string,
      "terminateTimeoutInSeconds": number
    },
    "microvmImageHooks": {
      "ready": string,
      "readyTimeoutInSeconds": number,

```

```
    "validate": "string",
    "validateTimeoutInSeconds": number
  },
  "port": number
},
"logging": { ... },
"name": "string",
"resources": [
  {
    "minimumMemoryInMiB": number
  }
],
"tags": {
  "string" : "string"
}
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

additionalOsCapabilities

Additional OS capabilities granted to the MicroVM runtime environment.

Type: Array of strings

Valid Values: ALL

Required: No

baseImageArn

The ARN of the Lambda-managed base MicroVM image to build upon. Use `ListManagedMicrovmImages` to discover available base images.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: Yes

baseImageVersion

The specific version of the base MicroVM image to use.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: No

buildRoleArn

The ARN of the IAM role assumed during the image build process. This role must have permissions to access the code artifact and any required resources.

Type: String

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

Pattern: `arn:aws[a-z\-*:iam::[0-9]{12}:role/?[a-zA-Z_0-9+=,.\@-_/\]]+`

Required: Yes

clientToken

A unique, case-sensitive identifier you provide to ensure the idempotency of the request. If you retry a request that completed successfully using the same client token, the operation returns the successful response without performing any further actions.

Type: String

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

Required: No

codeArtifact

The code artifact containing the application code and metadata for the MicroVM image.

Type: [CodeArtifact](#) object

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

Required: Yes

cpuConfigurations

The list of supported CPU configurations for the MicroVM.

Type: Array of [CpuConfiguration](#) objects

Required: No

description

A description of the MicroVM image.

Type: String

Required: No

egressNetworkConnectors

The list of egress network connectors available to the MicroVM at runtime.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

environmentVariables

Environment variables set in the MicroVM runtime environment.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `[^\s]+`

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

Required: No

hooks

Lifecycle hook configuration for MicroVMs and MicroVM images.

Type: [Hooks](#) object

Required: No

logging

The logging configuration for build-time and runtime logs. Specify {"cloudWatch": {"logGroup": "..."}} to stream logs to a custom CloudWatch log group, or {"disabled": {}} to turn off logging.

Type: [Logging](#) object

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

Required: No

name

The name of the MicroVM image. Must be unique within the AWS account.

Type: String

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

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

Required: Yes

resources

The resource requirements for the MicroVM.

Type: Array of [Resources](#) objects

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Required: No

tags

A set of key-value pairs that you can attach to the resource. Use tags to categorize resources for cost allocation, access control (ABAC), and organization.

Type: String to string map

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

Key Pattern: (`([\p{L}\p{Z}\p{N}_.:/=+\-@]*)`)

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

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

Required: No

Response Syntax

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

{
  "additionalOsCapabilities": [ "string" ],
  "baseImageArn": "string",
  "baseImageVersion": "string",
  "buildRoleArn": "string",
  "codeArtifact": { ... },
  "cpuConfigurations": [
    {
      "architecture": "string"
    }
  ],
  "createdAt": number,
  "description": "string",
  "egressNetworkConnectors": [ "string" ],
  "environmentVariables": {
    "string" : "string"
  },
  "hooks": {
    "microvmHooks": {
      "resume": "string",
      "resumeTimeoutInSeconds": number,
      "run": "string",
      "runTimeoutInSeconds": number,
      "suspend": "string",
      "suspendTimeoutInSeconds": number,
      "terminate": "string",
      "terminateTimeoutInSeconds": number
    }
  },
}
```

```
  "microvmImageHooks": {
    "ready": "string",
    "readyTimeoutInSeconds": number,
    "validate": "string",
    "validateTimeoutInSeconds": number
  },
  "port": number
},
"imageArn": "string",
"imageVersion": "string",
"latestActiveImageVersion": "string",
"latestFailedImageVersion": "string",
"logging": { ... },
"name": "string",
"resources": [
  {
    "minimumMemoryInMiB": number
  }
],
"state": "string",
"tags": {
  "string" : "string"
},
"updatedAt": number
}
```

Response Elements

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

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

additionalOsCapabilities

Additional OS capabilities granted to the MicroVM runtime environment.

Type: Array of strings

Valid Values: ALL

baseImageArn

The ARN of the base MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

baseImageVersion

The specific version of the base MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

buildRoleArn

The ARN of the IAM build role.

Type: String

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

Pattern: `arn:aws[a-z\-*:iam::[0-9]{12}:role/?[a-zA-Z_0-9+=,.\@-_/\]]+`

codeArtifact

The code artifact containing the application code and metadata for the MicroVM image.

Type: [CodeArtifact](#) object

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

cpuConfigurations

The list of supported CPU configurations for the MicroVM.

Type: Array of [CpuConfiguration](#) objects

createdAt

The timestamp when the MicroVM image was created.

Type: Timestamp

description

The description of the MicroVM image.

Type: String

[egressNetworkConnectors](#)

The list of egress network connectors available to the MicroVM at runtime.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 2048.

[environmentVariables](#)

Environment variables set in the MicroVM runtime environment.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `[^\s]+`

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

[hooks](#)

Lifecycle hook configuration for MicroVMs and MicroVM images.

Type: [Hooks](#) object

[imageArn](#)

The ARN of the created MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

[imageVersion](#)

The version of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

latestActiveImageVersion

The latest active version of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

latestFailedImageVersion

The latest failed version of the MicroVM image, if any.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

logging

The logging configuration for build-time and runtime logs. Specify `{"cloudWatch": {"logGroup": "..."}}` to stream logs to a custom CloudWatch log group, or `{"disabled": {}}` to turn off logging.

Type: [Logging](#) object

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

name

The name of the MicroVM image.

Type: String

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

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

resources

The resource requirements for the MicroVM.

Type: Array of [Resources](#) objects

Array Members: Minimum number of 0 items. Maximum number of 1 item.

state

The current state of the MicroVM image.

Type: String

Valid Values: CREATING | CREATED | CREATE_FAILED | UPDATING | UPDATED | UPDATE_FAILED | DELETING | DELETE_FAILED | DELETED

tags

A set of key-value pairs that you can attach to the resource. Use tags to categorize resources for cost allocation, access control (ABAC), and organization.

Type: String to string map

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

Key Pattern: (`[\p{L}\p{Z}\p{N}_.:/+\\-@]*`)

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

Value Pattern: (`[\p{L}\p{Z}\p{N}_.:/+\\-@]*`)

updatedAt

The timestamp when the MicroVM image was last updated.

Type: Timestamp

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The request could not be completed due to a conflict with the current state of the resource.

resourceId

The identifier of the resource that caused the conflict.

resourceType

The type of the resource that caused the conflict.

HTTP Status Code: 409

InternalServerErrorException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ServiceQuotaExceededException

You have exceeded a service quota for Lambda MicroVMs.

quotaCode

The quota code of the exceeded service quota.

resourceId

The identifier of the resource that exceeded the quota.

resourceType

The type of the resource that exceeded the quota.

serviceCode

The service code of the exceeded service quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

CreateMicrovmShellAuthToken

Creates a shell authentication token for interactive shell access to a running MicroVM. The MicroVM must have been run with the SHELL_INGRESS network connector attached.

Request Syntax

```
POST /2025-09-09/microvms/microvmIdentifier/shell-auth-token HTTP/1.1
Content-type: application/json

{
  "expirationInMinutes": number
}
```

URI Request Parameters

The request uses the following URI parameters.

microvmIdentifier

The ID of the MicroVM to create a shell authentication token for.

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

expirationInMinutes

The duration in minutes before the shell authentication token expires.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

Response Syntax

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

{
  "authToken": {
    "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.

authToken

The generated shell authentication token key-value pairs for accessing the MicroVM.

Type: String to string map

Map Entries: Maximum number of 10 items.

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

Key Pattern: `[^\s]+`

Value Length Constraints: Minimum length of 0. Maximum length of 8000.

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteMicrovmImage

Deletes a MicroVM image. This operation is idempotent; deleting an image that has already been deleted succeeds without error.

Request Syntax

```
DELETE /2025-09-09/microvm-images/imageIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

imageIdentifier

The unique identifier (ARN or ID) of the MicroVM image to delete.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "imageIdentifier": "string",
  "state": "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.

imageIdentifier

The identifier of the deleted MicroVM image.

Type: String

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

state

The current state of the MicroVM image after deletion.

Type: String

Valid Values: CREATING | CREATED | CREATE_FAILED | UPDATING | UPDATED | UPDATE_FAILED | DELETING | DELETE_FAILED | DELETED

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The request could not be completed due to a conflict with the current state of the resource.

resourceId

The identifier of the resource that caused the conflict.

resourceType

The type of the resource that caused the conflict.

HTTP Status Code: 409

InternalServerErrorException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteMicrovmImageVersion

Deletes a specific version of a MicroVM image. This operation is idempotent; deleting a version that has already been deleted succeeds without error.

Request Syntax

```
DELETE /2025-09-09/microvm-images/imageIdentifier/versions/imageVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

imageIdentifier

The unique identifier (ARN or ID) of the MicroVM image.

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

Required: Yes

imageVersion

The version of the MicroVM image to delete.

Length Constraints: Minimum length of 1. 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
```

```
{
  "imageIdentifier": "string",
  "imageVersion": "string",
  "state": "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.

imageIdentifier

The identifier of the MicroVM image.

Type: String

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

imageVersion

The version that was deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

state

The current state of the MicroVM image version after deletion.

Type: String

Valid Values: PENDING | IN_PROGRESS | SUCCESSFUL | FAILED | DELETING | DELETED | DELETE_FAILED

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The request could not be completed due to a conflict with the current state of the resource.

resourceId

The identifier of the resource that caused the conflict.

resourceType

The type of the resource that caused the conflict.

HTTP Status Code: 409

InternalServerErrorException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetMicrovm

Retrieves the details of a specific MicroVM, including its state, endpoint, image information, and configuration. The state field is eventually consistent — determine readiness by connecting to the endpoint.

Request Syntax

```
GET /2025-09-09/microvms/microvmIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

microvmIdentifier

The ID of the MicroVM to retrieve.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "egressNetworkConnectors": [ "string" ],
  "endpoint": "string",
  "executionRoleArn": "string",
  "idlePolicy": {
    "autoResumeEnabled": boolean,
    "maxIdleDurationSeconds": number,
    "suspendedDurationSeconds": number
  },
}
```

```
"imageArn": "string",  
"imageVersion": "string",  
"ingressNetworkConnectors": [ "string" ],  
"maximumDurationInSeconds": number,  
"microvmId": "string",  
"startedAt": number,  
"state": "string",  
"stateReason": "string",  
"terminatedAt": number  
}
```

Response Elements

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

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

egressNetworkConnectors

The list of egress network connectors configured for the MicroVM.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 2048.

endpoint

The HTTPS endpoint URL for communicating with the MicroVM. Include a valid authentication token in the X-aws-proxy-auth header when sending requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

executionRoleArn

The ARN of the IAM execution role assumed by the MicroVM.

Type: String

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

Pattern: `arn:aws[a-z\-*:iam::[0-9]{12}:role/?[a-zA-Z_0-9+=,.\@\-_/\]]+`

idlePolicy

The idle policy configuration of the MicroVM, controlling auto-suspend and auto-resume behavior.

Type: [IdlePolicy](#) object

imageArn

The ARN of the MicroVM image used to run this MicroVM.

Type: String

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

imageVersion

The version of the MicroVM image used to run this MicroVM.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

ingressNetworkConnectors

The list of ingress network connectors configured for the MicroVM.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 2048.

maximumDurationInSeconds

The maximum duration in seconds that the MicroVM can exist before being terminated by the platform.

Type: Integer

microvmId

The unique identifier of the MicroVM.

Type: String

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

startedAt

The timestamp when the MicroVM first started.

Type: Timestamp

state

The current lifecycle state of the MicroVM.

Type: String

Valid Values: PENDING | RUNNING | SUSPENDING | SUSPENDED | TERMINATING | TERMINATED

stateReason

The reason for why the MicroVM is in the current state.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: [^\s]+

terminatedAt

The timestamp when the MicroVM terminated.

Type: Timestamp

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetMicrovmImage

Retrieves the details of a MicroVM image, including its state, versions, and configuration.

Request Syntax

```
GET /2025-09-09/microvm-images/imageIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

imageIdentifier

The unique identifier (ARN or ID) of the MicroVM image to retrieve.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

```
{  
  "createdAt": number,  
  "imageArn": "string",  
  "latestActiveImageVersion": "string",  
  "latestFailedImageVersion": "string",  
  "name": "string",  
  "state": "string",  
  "tags": {  
    "string" : "string"  
  },  
  "updatedAt": number
```

```
}
```

Response Elements

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

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

createdAt

The timestamp when the MicroVM image was created.

Type: Timestamp

imageArn

The ARN of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

latestActiveImageVersion

The latest active version of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

latestFailedImageVersion

The latest failed version of the MicroVM image, if any.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

name

The name of the MicroVM image.

Type: String

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

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

state

The current state of the MicroVM image.

Type: String

Valid Values: CREATING | CREATED | CREATE_FAILED | UPDATING | UPDATED | UPDATE_FAILED | DELETING | DELETE_FAILED | DELETED

tags

A set of key-value pairs that you can attach to the resource. Use tags to categorize resources for cost allocation, access control (ABAC), and organization.

Type: String to string map

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

Key Pattern: ([\p{L}\p{Z}\p{N}_ . : / = + \ - @] *)

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

Value Pattern: ([\p{L}\p{Z}\p{N}_ . : / = + \ - @] *)

updatedAt

The timestamp when the MicroVM image was last updated.

Type: Timestamp

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetMicrovmImageBuild

Retrieves the details of a specific MicroVM image build, including its state, target architecture, and snapshot information.

Request Syntax

```
GET /2025-09-09/microvm-images/imageIdentifier/versions/imageVersion/builds/buildId
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

buildId

The unique identifier of the build to retrieve.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: Yes

imageIdentifier

The unique identifier (ARN or ID) of the MicroVM image.

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

Required: Yes

imageVersion

The version of the MicroVM image.

Length Constraints: Minimum length of 1. 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

{
  "architecture": "string",
  "buildId": "string",
  "buildState": "string",
  "chipset": "string",
  "chipsetGeneration": "string",
  "createdAt": number,
  "imageArn": "string",
  "imageVersion": "string",
  "snapshotBuild": {
    "codeInstallSizeInBytes": number,
    "diskSnapshotSizeInBytes": number,
    "memorySnapshotSizeInBytes": number
  },
  "stateReason": "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.

architecture

The target CPU architecture for the build. Supported value: ARM_64.

Type: String

Valid Values: ARM_64

buildId

The build request ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

buildState

The current state of the build.

Type: String

Valid Values: PENDING | IN_PROGRESS | SUCCESSFUL | FAILED

chipset

The target chipset for the build.

Type: String

Valid Values: GRAVITON

chipsetGeneration

The target chipset generation for the build.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

createdAt

The timestamp when the build was created.

Type: Timestamp

imageArn

The ARN of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

imageVersion

The version of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: [^\s]+

snapshotBuild

The snapshot build details, including memory and disk snapshot sizes.

Type: [SnapshotBuild](#) object

stateReason

The reason for the build state, if applicable.

Type: String

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

GetMicrovmImageVersion

Retrieves the details of a specific version of a MicroVM image, including its configuration, state, and build information.

Request Syntax

```
GET /2025-09-09/microvm-images/imageIdentifier/versions/imageVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

imageIdentifier

The unique identifier (ARN or ID) of the MicroVM image.

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

Required: Yes

imageVersion

The version of the MicroVM image to retrieve.

Length Constraints: Minimum length of 1. 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

{
  "additional0sCapabilities": [ "string" ],
```

```
"baseImageArn": "string",
"baseImageVersion": "string",
"buildRoleArn": "string",
"codeArtifact": { ... },
"cpuConfigurations": [
  {
    "architecture": "string"
  }
],
"createdAt": number,
"description": "string",
"egressNetworkConnectors": [ "string" ],
"environmentVariables": {
  "string" : "string"
},
"hooks": {
  "microvmHooks": {
    "resume": "string",
    "resumeTimeoutInSeconds": number,
    "run": "string",
    "runTimeoutInSeconds": number,
    "suspend": "string",
    "suspendTimeoutInSeconds": number,
    "terminate": "string",
    "terminateTimeoutInSeconds": number
  },
  "microvmImageHooks": {
    "ready": "string",
    "readyTimeoutInSeconds": number,
    "validate": "string",
    "validateTimeoutInSeconds": number
  },
  "port": number
},
"imageArn": "string",
"imageVersion": "string",
"logging": { ... },
"resources": [
  {
    "minimumMemoryInMiB": number
  }
],
"state": "string",
"stateReason": "string",
```

```
"status": "string",
"tags": {
  "string" : "string"
},
"updatedAt": number
}
```

Response Elements

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

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

additionalOsCapabilities

Additional OS capabilities granted to the MicroVM runtime environment.

Type: Array of strings

Valid Values: ALL

baseImageArn

The ARN of the base MicroVM image used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: [^\s]+

baseImageVersion

The specific version of the base MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: [^\s]+

buildRoleArn

The ARN of the IAM build role.

Type: String

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

Pattern: `arn:aws[a-z\-*:iam::[0-9]{12}:role/?[a-zA-Z_0-9+=,.\@-_/\]]+`

codeArtifact

The code artifact for this version.

Type: [CodeArtifact](#) object

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

cpuConfigurations

The list of supported CPU configurations for the MicroVM.

Type: Array of [CpuConfiguration](#) objects

createdAt

The timestamp when the version was created.

Type: Timestamp

description

The description of the version.

Type: String

egressNetworkConnectors

The list of egress network connectors available to the MicroVM at runtime.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 2048.

environmentVariables

Environment variables set in the MicroVM runtime environment.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `[^\s]+`

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

hooks

Lifecycle hook configuration for MicroVMs and MicroVM images.

Type: [Hooks](#) object

imageArn

The ARN of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

imageVersion

The version of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

logging

The logging configuration for this version.

Type: [Logging](#) object

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

resources

The resource requirements for the MicroVM.

Type: Array of [Resources](#) objects

Array Members: Minimum number of 0 items. Maximum number of 1 item.

state

The current state of the version.

Type: String

Valid Values: PENDING | IN_PROGRESS | SUCCESSFUL | FAILED | DELETING | DELETED | DELETE_FAILED

stateReason

The reason for the current state. For example, one or more builds failed.

Type: String

status

The availability status of the version: ACTIVE (can be used by RunMicrovm) or INACTIVE (blocked from launching new MicroVMs).

Type: String

Valid Values: ACTIVE | INACTIVE

tags

Key-value pairs associated with the version.

Type: String to string map

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

Key Pattern: (`([\p{L}\p{Z}\p{N}_.:/+\\-@]*)`)

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

Value Pattern: (`([\p{L}\p{Z}\p{N}_.:/+\\-@]*)`)

updatedAt

The timestamp when the version was last updated.

Type: Timestamp

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListManagedMicrovmImages

Lists AWS managed MicroVM images available for use as base images. We recommend using pagination to ensure that the operation returns quickly and successfully.

Request Syntax

```
GET /2025-09-09/managed-microvm-images?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 in a single call.

Valid Range: Minimum value of 1. Maximum value of 50.

[nextToken](#)

The pagination token from a previous call. Use this token to retrieve the next page of results.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "items": [
    {
      "createdAt": number,
      "imageArn": "string",
      "updatedAt": number
    }
  ],
}
```

```
"nextToken": "string"  
}
```

Response Elements

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

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

items

The list of managed MicroVM images.

Type: Array of [ManagedMicrovmImageSummary](#) objects

nextToken

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

Type: String

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListManagedMicrovmImageVersions

Lists versions of a managed MicroVM image. We recommend using pagination to ensure that the operation returns quickly and successfully.

Request Syntax

```
GET /2025-09-09/managed-microvm-images/imageIdentifier/versions?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

imageIdentifier

The unique identifier (ARN or ID) of the managed MicroVM image to list versions for.

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

Required: Yes

maxResults

The maximum number of results to return in a single call.

Valid Range: Minimum value of 1. Maximum value of 50.

nextToken

The pagination token from a previous call. Use this token to retrieve the next page of results.

Request Body

The request does not have a request body.

Response Syntax

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

```
"items": [  
  {  
    "createdAt": number,  
    "imageArn": "string",  
    "imageVersion": "string",  
    "updatedAt": number  
  }  
],  
"nextToken": "string"  
}
```

Response Elements

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

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

items

The list of managed MicroVM image versions.

Type: Array of [ManagedMicrovmImageVersion](#) objects

nextToken

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

Type: String

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListMicrovmImageBuilds

Lists builds for a MicroVM image version with optional filtering by architecture and chipset. We recommend using pagination to ensure that the operation returns quickly and successfully.

Request Syntax

```
GET /2025-09-09/microvm-images/imageIdentifier/versions/imageVersion/builds?
architecture=architecture&chipset=chipset&chipsetGeneration=chipsetGeneration&maxResults=maxRes
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

architecture

Filters builds by target CPU architecture.

Valid Values: ARM_64

chipset

Filters builds by target chipset.

Valid Values: GRAVITON

chipsetGeneration

Filters builds by target chipset generation.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: [^\s]+

imageIdentifier

The unique identifier (ARN or ID) of the MicroVM image.

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

Required: Yes

imageVersion

The version of the MicroVM image to list builds for.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: Yes

maxResults

The maximum number of results to return in a single call.

Valid Range: Minimum value of 1. Maximum value of 50.

nextToken

The pagination token from a previous call. Use this token to retrieve the next page of results.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "items": [
    {
      "architecture": "string",
      "buildId": "string",
      "buildState": "string",
      "chipset": "string",
      "chipsetGeneration": "string",
      "createdAt": number,
      "imageArn": "string",
      "imageVersion": "string",
      "stateReason": "string"
    }
  ],
}
```

```
"nextToken": "string"  
}
```

Response Elements

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

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

items

The list of MicroVM image builds.

Type: Array of [MicrovmImageBuildSummary](#) objects

nextToken

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

Type: String

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

ListMicrovmImages

Lists MicroVM images in the account with optional name filtering. We recommend using pagination to ensure that the operation returns quickly and successfully.

Request Syntax

```
GET /2025-09-09/microvm-images?  
maxResults=maxResults&nameFilter=nameFilter&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call.

Valid Range: Minimum value of 1. Maximum value of 50.

nameFilter

Filters images whose name contains the specified string.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

nextToken

The pagination token from a previous call. Use this token to retrieve the next page of results.

Request Body

The request does not have a request body.

Response Syntax

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

```
{
  "items": [
    {
      "createdAt": number,
      "imageArn": "string",
      "latestActiveImageVersion": "string",
      "latestFailedImageVersion": "string",
      "name": "string",
      "state": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

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

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

items

The list of MicroVM images.

Type: Array of [MicrovmImageSummary](#) objects

nextToken

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

Type: String

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

ListMicrovmImageVersions

Lists versions of a MicroVM image. We recommend using pagination to ensure that the operation returns quickly and successfully.

Request Syntax

```
GET /2025-09-09/microvm-images/imageIdentifier/versions?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

imageIdentifier

The unique identifier (ARN or ID) of the MicroVM image to list versions for.

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

Required: Yes

maxResults

The maximum number of results to return in a single call.

Valid Range: Minimum value of 1. Maximum value of 50.

nextToken

The pagination token from a previous call. Use this token to retrieve the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
  "items": [  
    ...  
  ]  
}
```

```
{
  "additionalOsCapabilities": [ "string" ],
  "baseImageArn": "string",
  "baseImageVersion": "string",
  "buildRoleArn": "string",
  "codeArtifact": { ... },
  "cpuConfigurations": [
    {
      "architecture": "string"
    }
  ],
  "createdAt": number,
  "description": "string",
  "egressNetworkConnectors": [ "string" ],
  "environmentVariables": {
    "string" : "string"
  },
  "hooks": {
    "microvmHooks": {
      "resume": "string",
      "resumeTimeoutInSeconds": number,
      "run": "string",
      "runTimeoutInSeconds": number,
      "suspend": "string",
      "suspendTimeoutInSeconds": number,
      "terminate": "string",
      "terminateTimeoutInSeconds": number
    },
    "microvmImageHooks": {
      "ready": "string",
      "readyTimeoutInSeconds": number,
      "validate": "string",
      "validateTimeoutInSeconds": number
    },
    "port": number
  },
  "imageArn": "string",
  "imageVersion": "string",
  "logging": { ... },
  "resources": [
    {
      "minimumMemoryInMiB": number
    }
  ],
}
```

```
    "state": "string",
    "stateReason": "string",
    "status": "string",
    "tags": {
      "string" : "string"
    },
    "updatedAt": number
  },
  "nextToken": "string"
}
```

Response Elements

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

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

items

The list of MicroVM image versions.

Type: Array of [MicrovmImageVersionSummary](#) objects

nextToken

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

Type: String

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListMicrovms

Lists MicroVMs in the account with optional filtering by image and version. We recommend using pagination to ensure that the operation returns quickly and successfully.

Request Syntax

```
GET /2025-09-09/microvms?  
imageIdentifier=imageIdentifier&imageVersion=imageVersion&maxResults=maxResults&nextToken=nextToken  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

imageIdentifier

Optional filter to list only MicroVMs running the specified image.

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

imageVersion

Optional filter to list only MicroVMs running the specified image version.

maxResults

The maximum number of results to return in a single call.

Valid Range: Minimum value of 1. Maximum value of 50.

nextToken

The pagination token from a previous call. Use this token to retrieve the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "items": [
    {
      "imageArn": "string",
      "imageVersion": "string",
      "microvmId": "string",
      "startedAt": number,
      "state": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

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

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

items

The list of MicroVMs.

Type: Array of [MicrovmItem](#) objects

nextToken

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

Type: String

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTags

Lists the tags associated with a Lambda MicroVM resource.

Request Syntax

```
GET /2017-03-31/tags/Resource HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Resource

The ARN of the resource to list tags for.

Length Constraints: Minimum length of 1. Maximum length of 10000.

Pattern: `arn:(aws[a-zA-Z-]*) :lambda:(eusc-)?[a-z]{2}((-gov)|(-iso([a-z]?)))?-[a-z]+\-\d{1}:\d{12}:(function:[a-zA-Z0-9-_\+](:(\$\{LATEST|[a-zA-Z0-9-_\+])?)|layer:([a-zA-Z0-9-_\+])|code-signing-config:csc-[a-z0-9]{17}|event-source-mapping:[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}|(capacity-provider|network-connector|microvm-image):[a-zA-Z0-9-_\+])`

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 key-value pairs of tags associated with the resource.

Type: String to string map

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

Key Pattern: (`[\p{L}\p{Z}\p{N}_ . : / = + \ - @] *`)

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

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

Errors

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

InvalidParameterValueException

One of the parameters in the request is not valid.

Type

The exception type.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ServiceException

The AWS Lambda MicroVMs service encountered an internal error.

Type

The exception type.

HTTP Status Code: 500

TooManyRequestsException

The request throughput limit was exceeded. Retry the request later.

Type

The exception type.

HTTP Status Code: 429

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ResumeMicrovm

Resumes a suspended MicroVM, restoring it to RUNNING state with all state intact. The MicroVM must be in SUSPENDED state.

Request Syntax

```
POST /2025-09-09/microvms/microvmIdentifier/resume HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

microvmIdentifier

The ID of the MicroVM to resume.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The request could not be completed due to a conflict with the current state of the resource.

resourceId

The identifier of the resource that caused the conflict.

resourceType

The type of the resource that caused the conflict.

HTTP Status Code: 409

InternalServerErrorException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

RunMicrovm

Runs a new MicroVM from the specified image. The MicroVM starts in PENDING state and transitions to RUNNING once provisioning completes. To connect, generate an authentication token using CreateMicrovmAuthToken.

Request Syntax

```
POST /2025-09-09/microvms HTTP/1.1
Content-type: application/json

{
  "clientToken": "string",
  "egressNetworkConnectors": [ "string" ],
  "executionRoleArn": "string",
  "idlePolicy": {
    "autoResumeEnabled": boolean,
    "maxIdleDurationSeconds": number,
    "suspendedDurationSeconds": number
  },
  "imageIdentifier": "string",
  "imageVersion": "string",
  "ingressNetworkConnectors": [ "string" ],
  "logging": { ... },
  "maximumDurationInSeconds": number,
  "runHookPayload": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier you provide to ensure the idempotency of the request.

Type: String

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

Required: No

egressNetworkConnectors

The list of egress network connectors to configure for the MicroVM.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

executionRoleArn

The ARN of the IAM role to be assumed by the MicroVM during execution.

Type: String

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

Pattern: `arn:aws[a-z\-*:iam::[0-9]{12}:role/?[a-zA-Z_0-9+=,.\@-_/\]]+`

Required: No

idlePolicy

Configuration to control auto-suspend and auto-resume behavior.

Type: [IdlePolicy](#) object

Required: No

imageIdentifier

The identifier (ARN or ID) of the MicroVM image to run.

Type: String

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

Required: Yes

imageVersion

The version of the MicroVM image to run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: No

ingressNetworkConnectors

The list of ingress network connectors to configure for the MicroVM.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

logging

The logging configuration for this MicroVM instance. Specify `{"cloudWatch": {"logGroup": "..."}}` to stream application logs to a custom CloudWatch log group, or `{"disabled": {}}` to turn off logging.

Type: [Logging](#) object

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

Required: No

maximumDurationInSeconds

The maximum duration in seconds that the MicroVM can exist before being terminated by the platform. Valid range: 1–28,800 (8 hours).

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 28800.

Required: No

runHookPayload

Per-MicroVM initialization data delivered as the request body of the /run lifecycle hook. Use to pass tenant-specific configuration such as session IDs or secret references. Maximum: 16,384 bytes.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 4096.

Required: No

Response Syntax

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

{
  "egressNetworkConnectors": [ "string" ],
  "endpoint": "string",
  "executionRoleArn": "string",
  "idlePolicy": {
    "autoResumeEnabled": boolean,
    "maxIdleDurationSeconds": number,
    "suspendedDurationSeconds": number
  },
  "imageArn": "string",
  "imageVersion": "string",
  "ingressNetworkConnectors": [ "string" ],
  "maximumDurationInSeconds": number,
  "microvmId": "string",
  "startedAt": number,
  "state": "string",
  "stateReason": "string",
  "terminatedAt": number
}
```

Response Elements

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

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

[egressNetworkConnectors](#)

The list of egress network connectors configured for the MicroVM.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 2048.

[endpoint](#)

The HTTPS endpoint URL for communicating with the MicroVM. Include a valid authentication token in the X-aws-proxy-auth header when sending requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

[executionRoleArn](#)

The ARN of the IAM execution role assumed by the MicroVM.

Type: String

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

Pattern: `arn:aws[a-z\-*:iam::[0-9]{12}:role/?[a-zA-Z_0-9+=,.\@-_/\]]+`

[idlePolicy](#)

The idle policy configuration of the MicroVM.

Type: [IdlePolicy](#) object

[imageArn](#)

The ARN of the MicroVM image used to run this MicroVM.

Type: String

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

[imageVersion](#)

The version of the MicroVM image used to run this MicroVM.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

[ingressNetworkConnectors](#)

The list of ingress network connectors configured for the MicroVM.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 2048.

[maximumDurationInSeconds](#)

The maximum duration in seconds that the MicroVM can exist.

Type: Integer

[microvmId](#)

The unique identifier of the MicroVM.

Type: String

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

[startedAt](#)

The timestamp when the MicroVM first started.

Type: Timestamp

[state](#)

The current lifecycle state of the MicroVM.

Type: String

Valid Values: PENDING | RUNNING | SUSPENDING | SUSPENDED | TERMINATING | TERMINATED

[stateReason](#)

The reason for why the MicroVM is in the current state.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

terminatedAt

The timestamp when the MicroVM terminated.

Type: Timestamp

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The request could not be completed due to a conflict with the current state of the resource.

resourceId

The identifier of the resource that caused the conflict.

resourceType

The type of the resource that caused the conflict.

HTTP Status Code: 409

InternalServerErrorException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ServiceQuotaExceededException

You have exceeded a service quota for Lambda MicroVMs.

quotaCode

The quota code of the exceeded service quota.

resourceId

The identifier of the resource that exceeded the quota.

resourceType

The type of the resource that exceeded the quota.

serviceCode

The service code of the exceeded service quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

SuspendMicrovm

Suspends a running MicroVM, preserving its full memory and disk state. The MicroVM transitions through SUSPENDING to SUSPENDED. To restore, call ResumeMicrovm or send traffic to the endpoint if autoResumeEnabled is true.

Request Syntax

```
POST /2025-09-09/microvms/microvmIdentifier/suspend HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

microvmIdentifier

The ID of the MicroVM to suspend.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The request could not be completed due to a conflict with the current state of the resource.

resourceId

The identifier of the resource that caused the conflict.

resourceType

The type of the resource that caused the conflict.

HTTP Status Code: 409

InternalServerErrorException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TagResource

Adds tags to a Lambda MicroVM resource.

Request Syntax

```
POST /2017-03-31/tags/Resource HTTP/1.1
Content-type: application/json
```

```
{
  "Tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[Resource](#)

The ARN of the resource to tag.

Length Constraints: Minimum length of 1. Maximum length of 10000.

Pattern: `arn:(aws[a-zA-Z-]*) :lambda:(eusc-)?[a-z]{2}((-gov)|(-iso([a-z]?)))?-[a-z]+\-\d{1}:\d{12}:(function:[a-zA-Z0-9-_\+](:(\$\{LATEST|[a-zA-Z0-9-_\+])?)|layer:([a-zA-Z0-9-_\+])|code-signing-config:csc-[a-z0-9]{17}|event-source-mapping:[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}|(capacity-provider|network-connector|microvm-image):[a-zA-Z0-9-_\+])`

Required: Yes

Request Body

The request accepts the following data in JSON format.

[Tags](#)

The key-value pairs of tags to add to the resource.

Type: String to string map

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

Key Pattern: (`([\p{L}\p{Z}\p{N}_ . : / = + \ - @]*)`)

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

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

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

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

InvalidParameterValueException

One of the parameters in the request is not valid.

Type

The exception type.

HTTP Status Code: 400

ResourceConflictException

The resource already exists, or another operation is in progress.

Type

The exception type.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ServiceException

The AWS Lambda MicroVMs service encountered an internal error.

Type

The exception type.

HTTP Status Code: 500

TooManyRequestsException

The request throughput limit was exceeded. Retry the request later.

Type

The exception type.

HTTP Status Code: 429

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

TerminateMicrovm

Terminates a MicroVM. This operation is idempotent; terminating a MicroVM that has already been terminated succeeds without error.

Request Syntax

```
DELETE /2025-09-09/microvms/microvmIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

microvmIdentifier

The ID of the MicroVM to terminate.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The request could not be completed due to a conflict with the current state of the resource.

resourceId

The identifier of the resource that caused the conflict.

resourceType

The type of the resource that caused the conflict.

HTTP Status Code: 409

InternalServerErrorException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UntagResource

Removes tags from a Lambda MicroVM resource.

Request Syntax

```
DELETE /2017-03-31/tags/Resource?tagKeys=TagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Resource

The ARN of the resource to remove tags from.

Length Constraints: Minimum length of 1. Maximum length of 10000.

Pattern: `arn:(aws[a-zA-Z-]*) : lambda : (eusc-)?[a-z]{2}((-gov)|(-iso([a-z]?)))?-[a-z]+-\d{1}:\d{12}:(function:[a-zA-Z0-9-_]+(:(\$LATEST|[a-zA-Z0-9-_]+))?)|layer:([a-zA-Z0-9-_]+)|code-signing-config:csc-[a-z0-9]{17}|event-source-mapping:[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}|(capacity-provider|network-connector|microvm-image):[a-zA-Z0-9-_]+)`

Required: Yes

TagKeys

The list of tag keys to remove from the resource.

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

Pattern: `([\p{L}\p{Z}\p{N}_.:/+@-]*)`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

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

InvalidParameterValueException

One of the parameters in the request is not valid.

Type

The exception type.

HTTP Status Code: 400

ResourceConflictException

The resource already exists, or another operation is in progress.

Type

The exception type.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ServiceException

The AWS Lambda MicroVMs service encountered an internal error.

Type

The exception type.

HTTP Status Code: 500

TooManyRequestsException

The request throughput limit was exceeded. Retry the request later.

Type

The exception type.

HTTP Status Code: 429

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateMicrovmImage

Updates the configuration of a MicroVM image and triggers a new version build. This operation uses PUT semantics — all required fields (`codeArtifact`, `baseImageArn`, `buildRoleArn`) must be provided with every request.

Request Syntax

```
PUT /2025-09-09/microvm-images/imageIdentifier HTTP/1.1
```

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

```
{
  "additionalOsCapabilities": [ "string" ],
  "baseImageArn": "string",
  "baseImageVersion": "string",
  "buildRoleArn": "string",
  "clientToken": "string",
  "codeArtifact": { ... },
  "cpuConfigurations": [
    {
      "architecture": "string"
    }
  ],
  "description": "string",
  "egressNetworkConnectors": [ "string" ],
  "environmentVariables": {
    "string" : "string"
  },
  "hooks": {
    "microvmHooks": {
      "resume": "string",
      "resumeTimeoutInSeconds": number,
      "run": "string",
      "runTimeoutInSeconds": number,
      "suspend": "string",
      "suspendTimeoutInSeconds": number,
      "terminate": "string",
      "terminateTimeoutInSeconds": number
    },
    "microvmImageHooks": {
      "ready": "string",
      "readyTimeoutInSeconds": number,

```

```
    "validate": "string",
    "validateTimeoutInSeconds": number
  },
  "port": number
},
"logging": { ... },
"resources": [
  {
    "minimumMemoryInMiB": number
  }
]
}
```

URI Request Parameters

The request uses the following URI parameters.

imageIdentifier

The unique identifier (ARN or ID) of the MicroVM image to update.

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

additionalOsCapabilities

Additional OS capabilities granted to the MicroVM runtime environment.

Type: Array of strings

Valid Values: ALL

Required: No

baseImageArn

The ARN of the base MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: Yes

baseImageVersion

The specific version of the base MicroVM image to use.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: No

buildRoleArn

The ARN of the IAM build role.

Type: String

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

Pattern: `arn:aws[a-z\-*:iam:]{0-9}{12}:role/?[a-zA-Z_0-9+=,.\@\-_/\]+`

Required: Yes

clientToken

A unique, case-sensitive identifier you provide to ensure the idempotency of the request.

Type: String

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

Required: No

codeArtifact

The code artifact containing the application code and metadata for the MicroVM image.

Type: [CodeArtifact](#) object

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

Required: Yes

cpuConfigurations

The list of supported CPU configurations for the MicroVM.

Type: Array of [CpuConfiguration](#) objects

Required: No

description

The description of the MicroVM image.

Type: String

Required: No

egressNetworkConnectors

The list of egress network connectors available to the MicroVM at runtime.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

environmentVariables

Environment variables set in the MicroVM runtime environment.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `[^\s]+`

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

Required: No

hooks

Lifecycle hook configuration for MicroVMs and MicroVM images.

Type: [Hooks](#) object

Required: No

[logging](#)

The logging configuration for build-time and runtime logs. Specify `{"cloudWatch": {"logGroup": "..."} }` to stream logs to a custom CloudWatch log group, or `{"disabled": {}}` to turn off logging.

Type: [Logging](#) object

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

Required: No

[resources](#)

The resource requirements for the MicroVM.

Type: Array of [Resources](#) objects

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Required: No

Response Syntax

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

{
  "additionalOsCapabilities": [ "string" ],
  "baseImageArn": "string",
  "baseImageVersion": "string",
  "buildRoleArn": "string",
  "codeArtifact": { ... },
  "cpuConfigurations": [
    {
      "architecture": "string"
    }
  ],
  "createdAt": number,
  "description": "string",
```

```
"egressNetworkConnectors": [ "string" ],
"environmentVariables": {
  "string" : "string"
},
"hooks": {
  "microvmHooks": {
    "resume": "string",
    "resumeTimeoutInSeconds": number,
    "run": "string",
    "runTimeoutInSeconds": number,
    "suspend": "string",
    "suspendTimeoutInSeconds": number,
    "terminate": "string",
    "terminateTimeoutInSeconds": number
  },
  "microvmImageHooks": {
    "ready": "string",
    "readyTimeoutInSeconds": number,
    "validate": "string",
    "validateTimeoutInSeconds": number
  },
  "port": number
},
"imageArn": "string",
"imageVersion": "string",
"latestActiveImageVersion": "string",
"latestFailedImageVersion": "string",
"logging": { ... },
"name": "string",
"resources": [
  {
    "minimumMemoryInMiB": number
  }
],
"state": "string",
"updatedAt": number
}
```

Response Elements

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

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

additionalOsCapabilities

Additional OS capabilities granted to the MicroVM runtime environment.

Type: Array of strings

Valid Values: ALL

baseImageArn

The ARN of the base MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

baseImageVersion

The specific version of the base MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

buildRoleArn

The ARN of the IAM build role.

Type: String

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

Pattern: `arn:aws[a-z\-*:iam::[0-9]{12}:role/?[a-zA-Z_0-9+=,.\@-_/\]]+`

codeArtifact

The code artifact containing the application code and metadata for the MicroVM image.

Type: [CodeArtifact](#) object

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

cpuConfigurations

The list of supported CPU configurations for the MicroVM.

Type: Array of [CpuConfiguration](#) objects

createdAt

The timestamp when the MicroVM image was created.

Type: Timestamp

description

The description of the MicroVM image.

Type: String

egressNetworkConnectors

The list of egress network connectors available to the MicroVM at runtime.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 2048.

environmentVariables

Environment variables set in the MicroVM runtime environment.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `[^\s]+`

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

hooks

Lifecycle hook configuration for MicroVMs and MicroVM images.

Type: [Hooks](#) object

imageArn

The ARN of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

imageVersion

The version of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

latestActiveImageVersion

The latest active version of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

latestFailedImageVersion

The latest failed version of the MicroVM image, if any.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

logging

The logging configuration for build-time and runtime logs. Specify `{"cloudWatch": {"logGroup": "..."}}` to stream logs to a custom CloudWatch log group, or `{"disabled": {}}` to turn off logging.

Type: [Logging](#) object

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

name

The name of the MicroVM image.

Type: String

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

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

resources

The resource requirements for the MicroVM.

Type: Array of [Resources](#) objects

Array Members: Minimum number of 0 items. Maximum number of 1 item.

state

The current state of the MicroVM image.

Type: String

Valid Values: CREATING | CREATED | CREATE_FAILED | UPDATING | UPDATED | UPDATE_FAILED | DELETING | DELETE_FAILED | DELETED

updatedAt

The timestamp when the MicroVM image was last updated.

Type: Timestamp

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The request could not be completed due to a conflict with the current state of the resource.

resourceId

The identifier of the resource that caused the conflict.

resourceType

The type of the resource that caused the conflict.

HTTP Status Code: 409

InternalServerErrorException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ServiceQuotaExceededException

You have exceeded a service quota for Lambda MicroVMs.

quotaCode

The quota code of the exceeded service quota.

resourceId

The identifier of the resource that exceeded the quota.

resourceType

The type of the resource that exceeded the quota.

serviceCode

The service code of the exceeded service quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

UpdateMicrovmImageVersion

Updates the status of a specific MicroVM image version.

Request Syntax

```
PATCH /2025-09-09/microvm-images/imageIdentifier/versions/imageVersion HTTP/1.1  
Content-type: application/json
```

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

URI Request Parameters

The request uses the following URI parameters.

imageIdentifier

The unique identifier (ARN or ID) of the MicroVM image.

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

Required: Yes

imageVersion

The version of the MicroVM image to update.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

status

The new status to set for the MicroVM image version.

Type: String

Valid Values: ACTIVE | INACTIVE

Required: Yes

Response Syntax

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

{
  "additionalOsCapabilities": [ "string" ],
  "baseImageArn": "string",
  "baseImageVersion": "string",
  "buildRoleArn": "string",
  "codeArtifact": { ... },
  "cpuConfigurations": [
    {
      "architecture": "string"
    }
  ],
  "createdAt": number,
  "description": "string",
  "egressNetworkConnectors": [ "string" ],
  "environmentVariables": {
    "string" : "string"
  },
  "hooks": {
    "microvmHooks": {
      "resume": "string",
      "resumeTimeoutInSeconds": number,
      "run": "string",
      "runTimeoutInSeconds": number,
      "suspend": "string",
      "suspendTimeoutInSeconds": number,
      "terminate": "string",
      "terminateTimeoutInSeconds": number
    },
    "microvmImageHooks": {
      "ready": "string",
      "readyTimeoutInSeconds": number,
      "validate": "string",

```

```
    "validateTimeoutInSeconds": number
  },
  "port": number
},
"imageArn": "string",
"imageVersion": "string",
"logging": { ... },
"resources": [
  {
    "minimumMemoryInMiB": number
  }
],
"state": "string",
"stateReason": "string",
"status": "string",
"tags": {
  "string" : "string"
},
"updatedAt": number
}
```

Response Elements

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

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

additionalOsCapabilities

Additional OS capabilities granted to the MicroVM runtime environment.

Type: Array of strings

Valid Values: ALL

baseImageArn

The ARN of the base MicroVM image used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

baseImageVersion

The specific version of the base MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

buildRoleArn

The ARN of the IAM build role.

Type: String

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

Pattern: `arn:aws[a-z\-*:iam::[0-9]{12}:role/?[a-zA-Z_0-9+=,.\@-_/\]]+`

codeArtifact

The code artifact for this version.

Type: [CodeArtifact](#) object

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

cpuConfigurations

The list of supported CPU configurations for the MicroVM.

Type: Array of [CpuConfiguration](#) objects

createdAt

The timestamp when the version was created.

Type: Timestamp

description

The description of the version.

Type: String

egressNetworkConnectors

The list of egress network connectors available to the MicroVM at runtime.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 2048.

environmentVariables

Environment variables set in the MicroVM runtime environment.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `[^\s]+`

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

hooks

Lifecycle hook configuration for MicroVMs and MicroVM images.

Type: [Hooks](#) object

imageArn

The ARN of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

imageVersion

The version of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

logging

The logging configuration for this version.

Type: [Logging](#) object

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

resources

The resource requirements for the MicroVM.

Type: Array of [Resources](#) objects

Array Members: Minimum number of 0 items. Maximum number of 1 item.

state

The current state of the version.

Type: String

Valid Values: PENDING | IN_PROGRESS | SUCCESSFUL | FAILED | DELETING | DELETED | DELETE_FAILED

stateReason

The reason for the current state. For example, one or more builds failed.

Type: String

status

The availability status of the version: ACTIVE (can be used by RunMicrovm) or INACTIVE (blocked from launching new MicroVMs).

Type: String

Valid Values: ACTIVE | INACTIVE

tags

Key-value pairs associated with the version.

Type: String to string map

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

Key Pattern: (`[\p{L}\p{Z}\p{N}_.:/=+\-@]*`)

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

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

updatedAt

The timestamp when the version was last updated.

Type: Timestamp

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The request could not be completed due to a conflict with the current state of the resource.

resourceId

The identifier of the resource that caused the conflict.

resourceType

The type of the resource that caused the conflict.

HTTP Status Code: 409

InternalServerError

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

resourceId

The identifier of the resource that was not found.

resourceType

The type of the resource that was not found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling. Retry the request later.

quotaCode

The quota code of the throttled service quota.

retryAfterSeconds

The number of seconds to wait before retrying the request.

serviceCode

The service code of the throttled service quota.

HTTP Status Code: 429

ValidationException

The input does not satisfy the constraints specified by the service.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

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

Data Types

The Lambda MicroVMs 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:

- [CloudWatchLogging](#)
- [CodeArtifact](#)
- [CpuConfiguration](#)
- [Hooks](#)
- [IdlePolicy](#)
- [Logging](#)
- [LoggingDisabled](#)
- [ManagedMicrovmImageSummary](#)
- [ManagedMicrovmImageVersion](#)
- [MicrovmHooks](#)
- [MicrovmImageBuildSummary](#)
- [MicrovmImageHooks](#)
- [MicrovmImageSummary](#)
- [MicrovmImageVersionSummary](#)
- [MicrovmItem](#)
- [PortRange](#)
- [PortSpecification](#)
- [Resources](#)
- [SnapshotBuild](#)

CloudWatchLogging

Configuration for Amazon CloudWatch Logs logging.

Contents

logGroup

The name of the CloudWatch Logs log group to send logs to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `[a-zA-Z0-9_\-\./\#]+`

Required: No

logStream

The name of the CloudWatch Logs log stream within the log group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `[^:]*`

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](#)

CodeArtifact

Contains the location of the code artifact for a MicroVM image.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

uri

The URI of the code artifact in Amazon S3.

Type: String

Length Constraints: Minimum length of 1. 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](#)

CpuConfiguration

Configuration for the CPU architecture of a MicroVM.

Contents

architecture

The CPU architecture.

Type: String

Valid Values: ARM_64

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](#)

Hooks

Lifecycle hook configuration for MicroVMs and MicroVM images.

Contents

microvmHooks

The lifecycle hooks for MicroVM events.

Type: [MicrovmHooks](#) object

Required: No

microvmImageHooks

The hooks for MicroVM image build events.

Type: [MicrovmImageHooks](#) object

Required: No

port

The port number on which the hooks listener runs.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

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](#)

IdlePolicy

Configuration that controls MicroVM auto-suspend and auto-resume behavior. Idle time is measured by inbound traffic through the MicroVM proxy endpoint — if no requests arrive within the configured duration, the MicroVM is suspended.

Contents

autoResumeEnabled

Indicates whether the MicroVM automatically resumes when it receives a request while suspended.

Type: Boolean

Required: Yes

maxIdleDurationSeconds

The maximum time in seconds that a MicroVM can remain idle before it is automatically suspended.

Type: Integer

Valid Range: Minimum value of 60.

Required: Yes

suspendedDurationSeconds

The maximum time in seconds that a MicroVM can remain suspended before it is automatically terminated.

Type: Integer

Valid Range: Minimum value of 0.

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](#)

Logging

Configuration for MicroVM logging output. Specify exactly one: `cloudWatch` to enable CloudWatch logging, or `disabled` to turn off logging.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

cloudWatch

Configuration for sending logs to Amazon CloudWatch Logs.

Type: [CloudWatchLogging](#) object

Required: No

disabled

Specifies that logging is disabled.

Type: [LoggingDisabled](#) 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](#)

LoggingDisabled

Specifies that logging is disabled for the MicroVM.

Contents

The members of this exception structure are context-dependent.

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](#)

ManagedMicrovmImageSummary

Contains summary information about a managed MicroVM image.

Contents

createdAt

The timestamp when the managed MicroVM image was created.

Type: Timestamp

Required: Yes

imageArn

The ARN of the managed MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: [^\s]+

Required: Yes

updatedAt

The timestamp when the managed MicroVM image was last updated.

Type: Timestamp

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ManagedMicrovmImageVersion

Contains version information for a managed MicroVM image.

Contents

createdAt

The timestamp when the version was created.

Type: Timestamp

Required: Yes

imageArn

The ARN of the managed MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: Yes

imageVersion

The version of the managed MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: Yes

updatedAt

The timestamp when the version was last updated.

Type: Timestamp

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MicrovmHooks

Configuration for lifecycle hooks invoked during MicroVM events such as run, resume, suspend, and terminate.

Contents

resume

The path of the hook invoked when the MicroVM resumes from a suspended state.

Type: String

Valid Values: DISABLED | ENABLED

Required: No

resumeTimeoutInSeconds

The maximum time in seconds for the resume hook to complete.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 60.

Required: No

run

The path of the hook invoked when the MicroVM starts running.

Type: String

Valid Values: DISABLED | ENABLED

Required: No

runTimeoutInSeconds

The maximum time in seconds for the run hook to complete.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 60.

Required: No

suspend

The path of the hook invoked when the MicroVM is suspended.

Type: String

Valid Values: DISABLED | ENABLED

Required: No

suspendTimeoutInSeconds

The maximum time in seconds for the suspend hook to complete.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 60.

Required: No

terminate

The path of the hook invoked when the MicroVM is terminated.

Type: String

Valid Values: DISABLED | ENABLED

Required: No

terminateTimeoutInSeconds

The maximum time in seconds for the terminate hook to complete.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 60.

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](#)

MicrovmImageBuildSummary

Contains summary information about a MicroVM image build.

Contents

architecture

The target CPU architecture for the build. Supported value: ARM_64.

Type: String

Valid Values: ARM_64

Required: Yes

buildId

The build request ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: [^\s]+

Required: Yes

buildState

The current state of the build.

Type: String

Valid Values: PENDING | IN_PROGRESS | SUCCESSFUL | FAILED

Required: Yes

chipset

The target chipset for the build.

Type: String

Valid Values: GRAVITON

Required: Yes

chipsetGeneration

The target chipset generation for the build.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: Yes

createdAt

The timestamp when the build was created.

Type: Timestamp

Required: Yes

imageArn

The ARN of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: Yes

imageVersion

The version of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: Yes

stateReason

The reason for the build state, if applicable.

Type: String

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MicrovmImageHooks

Configuration for hooks invoked during MicroVM image build events such as ready and validate.

Contents

ready

The path of the hook invoked when the MicroVM image build is ready.

Type: String

Valid Values: DISABLED | ENABLED

Required: No

readyTimeoutInSeconds

The maximum time in seconds for the ready hook to complete.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 3600.

Required: No

validate

The path of the hook invoked to validate the MicroVM image build.

Type: String

Valid Values: DISABLED | ENABLED

Required: No

validateTimeoutInSeconds

The maximum time in seconds for the validate hook to complete.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 3600.

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](#)

MicrovmImageSummary

Contains summary information about a MicroVM image.

Contents

createdAt

The timestamp when the MicroVM image was created.

Type: Timestamp

Required: Yes

imageArn

The ARN of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: Yes

name

The name of the MicroVM image.

Type: String

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

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

Required: Yes

state

The current state of the MicroVM image.

Type: String

Valid Values: `CREATING` | `CREATED` | `CREATE_FAILED` | `UPDATING` | `UPDATED` | `UPDATE_FAILED` | `DELETING` | `DELETE_FAILED` | `DELETED`

Required: Yes

latestActiveImageVersion

The latest active version of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: No

latestFailedImageVersion

The latest failed version of the MicroVM image, if any.

Type: String

Length Constraints: Minimum length of 1. 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](#)

MicrovmImageVersionSummary

Contains summary information about a version of a MicroVM image.

Contents

baseImageArn

The ARN of the base MicroVM image used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: Yes

buildRoleArn

The ARN of the IAM build role.

Type: String

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

Pattern: `arn:aws[a-z\-*:iam::[0-9]{12}:role/?[a-zA-Z_0-9+=,.\@-_/\]]+`

Required: Yes

codeArtifact

The code artifact for this version.

Type: [CodeArtifact](#) object

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

Required: Yes

createdAt

The timestamp when the version was created.

Type: Timestamp

Required: Yes

imageArn

The ARN of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: Yes

imageVersion

The version of the MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: Yes

state

The current state of the version.

Type: String

Valid Values: PENDING | IN_PROGRESS | SUCCESSFUL | FAILED | DELETING | DELETED | DELETE_FAILED

Required: Yes

status

The availability status of the version: ACTIVE (can be used by RunMicrovm) or INACTIVE (blocked from launching new MicroVMs).

Type: String

Valid Values: ACTIVE | INACTIVE

Required: Yes

additionalOsCapabilities

Additional OS capabilities granted to the MicroVM runtime environment.

Type: Array of strings

Valid Values: ALL

Required: No

baseImageVersion

The specific version of the base MicroVM image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: No

cpuConfigurations

The list of supported CPU configurations for the MicroVM.

Type: Array of [CpuConfiguration](#) objects

Required: No

description

The description of the version.

Type: String

Required: No

egressNetworkConnectors

The list of egress network connectors available to the MicroVM at runtime.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

environmentVariables

Environment variables set in the MicroVM runtime environment.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `[^\s]+`

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

Required: No

hooks

Lifecycle hook configuration for MicroVMs and MicroVM images.

Type: [Hooks](#) object

Required: No

logging

The logging configuration for this version.

Type: [Logging](#) object

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

Required: No

resources

The resource requirements for the MicroVM.

Type: Array of [Resources](#) objects

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Required: No

stateReason

The reason for the current state. For example, one or more builds failed.

Type: String

Required: No

tags

Key-value pairs associated with the version.

Type: String to string map

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

Key Pattern: (`([\p{L}\p{Z}\p{N}_.: /+=\ -@]*)`)

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

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

Required: No

updatedAt

The timestamp when the version was last updated.

Type: Timestamp

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MicrovmItem

Contains summary information about a MicroVM instance.

Contents

imageArn

The ARN of the MicroVM image used to run this MicroVM.

Type: String

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

Required: Yes

imageVersion

The version of the MicroVM image used to run this MicroVM.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[^\s]+`

Required: Yes

microvmId

The unique identifier of the MicroVM.

Type: String

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

Required: Yes

startedAt

The timestamp when the MicroVM started.

Type: Timestamp

Required: Yes

state

The current lifecycle state of the MicroVM.

Type: String

Valid Values: PENDING | RUNNING | SUSPENDING | SUSPENDED | TERMINATING | TERMINATED

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](#)

PortRange

Specifies a range of ports.

Contents

endPort

The ending port number of the range.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

Required: Yes

startPort

The starting port number of the range.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

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](#)

PortSpecification

Specifies which ports are accessible on a MicroVM. Only one of the port specification options can be set.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

allPorts

Indicates that all ports are accessible.

Type: Structure

Required: No

port

A single port number.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

Required: No

range

A range of ports.

Type: [PortRange](#) 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](#)

Resources

Resource requirements for a MicroVM.

Contents

minimumMemoryInMiB

The minimum amount of memory in MiB to allocate to the MicroVM.

Type: Integer

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](#)

SnapshotBuild

Contains size information about a MicroVM image snapshot build.

Contents

codeInstallSizeInBytes

The size of the installed code in bytes.

Type: Long

Required: No

diskSnapshotSizeInBytes

The size of the disk snapshot in bytes.

Type: Long

Required: No

memorySnapshotSizeInBytes

The size of the memory snapshot in bytes.

Type: Long

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

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*.

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 Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

IncompleteSignature

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

InternalFailure

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

MalformedHttpRequestException

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

NotAuthorized

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

OptInRequired

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

RequestAbortedException

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

RequestEntityTooLargeException

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

RequestTimeoutException

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

ServiceUnavailable

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

ThrottlingException

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

UnknownOperationException

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

UnrecognizedClientException

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

ValidationError

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400