亚马逊云科技

API Reference

Amazon Lambda MicroVMs



API Version 2025-09-09

Amazon Lambda MicroVMs: API Reference

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 ... 38
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 ... 86
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 ... 105
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 ... 112

UpdateMicrovmImage ... 113
Request Syntax ... 113
URI Request Parameters ... 114
Request Body ... 114
Response Syntax ... 117
Response Elements ... 118
Errors ... 122
See Also ... 124
UpdateMicrovmImageVersion ... 126
Request Syntax ... 126
URI Request Parameters ... 126
Request Body ... 126
Response Syntax ... 127
Response Elements ... 128
Errors ... 132
See Also ... 133
Data Types ... 135
CloudWatchLogging ... 136
Contents ... 136
See Also ... 136
CodeArtifact ... 137
Contents ... 137
See Also ... 137
CpuConfiguration ... 138
Contents ... 138
See Also ... 138
Hooks ... 139
Contents ... 139
See Also ... 139
IdlePolicy ... 140
Contents ... 140
See Also ... 140
Logging ... 142
Contents ... 142
See Also ... 142
LoggingDisabled ... 143

Contents 143
See Also 143
ManagedMicrovmImageSummary 144
Contents 144
See Also 144
ManagedMicrovmImageVersion 146
Contents 146
See Also 147
MicrovmHooks 148
Contents 148
See Also 149
MicrovmImageBuildSummary 151
Contents 151
See Also 153
MicrovmImageHooks 154
Contents 154
See Also 155
MicrovmImageSummary 156
Contents 156
See Also 157
MicrovmImageVersionSummary 158
Contents 158
See Also 162
MicrovmItem 163
Contents 163
See Also 164
PortRange 165
Contents 165
See Also 165
PortSpecification 166
Contents 166
See Also 166
Resources 168
Contents 168
See Also 168
SnapshotBuild 169

Contents 169
See Also 169
Common Parameters 170
Common Error Types 173

Welcome

Amazon Lambda MicroVMs provides APIs to create, manage, and operate MicroVMs and their associated MicroVM Image environments.

This document was last published on November 3, 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

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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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 image build time.

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 Amazon Web Services 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 image build time.

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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2

- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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

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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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 available to the MicroVM at runtime.

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.

Pattern: `arn:[a-z0-9-]+:lambda:[a-z0-9-]*:[a-z0-9]*:microvm-image:.+`

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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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` | `X86_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 | INTEL`

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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2

- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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

{
   "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 image build time.

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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon SDK for Ruby V3

ListManagedMicrovmImages

Lists Amazon managed MicroVM images available for use as base images. Use 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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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",
         "status": "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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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 | X86_64`

chipset

Filters builds by target chipset.

Valid Values: `GRAVITON | INTEL`

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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2

- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2

- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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=nextT
 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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

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 Amazon Lambda MicroVMs service encountered an internal error. Retry your request.

Type

The exception type.

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

TooManyRequestsException

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

Type

The exception type.

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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 available to the MicroVM at runtime.

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 available to the MicroVM at runtime.

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.

Pattern: `arn:[a-z0-9-]+:lambda:[a-z0-9-]*:[a-z0-9]*:microvm-image:.+`

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

InsufficientCapacityException

There is insufficient capacity to fulfill the request. Retry the request later.

HTTP Status Code: 500

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

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 Amazon Lambda MicroVMs service encountered an internal error. Retry your request.

Type

The exception type.

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

TooManyRequestsException

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

Type

The exception type.

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal server error occurred. Retry the request later.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 500

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 Amazon Lambda MicroVMs service encountered an internal error. Retry your request.

Type

The exception type.

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

TooManyRequestsException

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

Type

The exception type.

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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 image build time.

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 image build time.

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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2

- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon 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 image build time.

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

InternalServerException

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 Amazon SDKs, see the following:

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++

- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon SDK for Ruby V3

Data Types

The Amazon 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 Amazon SDKs, see the following:

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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 Amazon SDKs, see the following:

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

CpuConfiguration

Configuration for the CPU architecture of a MicroVM.

Contents

architecture

The CPU architecture.

Type: String

Valid Values: `ARM_64` | `X86_64`

Required: Yes

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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 Amazon SDKs, see the following:

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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 Amazon SDKs, see the following:

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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 Amazon SDKs, see the following:

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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 Amazon SDKs, see the following:

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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 Amazon SDKs, see the following:

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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

status

The lifecycle status of the managed MicroVM image version. Valid values: AVAILABLE (the version is available for use) or DEPRECATED (the version is deprecated; do not use it for new MicroVM images).

Type: String

Valid Values: `AVAILABLE | DEPRECATED | RECALLED`

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 Amazon SDKs, see the following:

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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 Amazon SDKs, see the following:

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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 | X86_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 | INTEL`

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 Amazon SDKs, see the following:

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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 Amazon SDKs, see the following:

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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-_]+`

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 Amazon SDKs, see the following:

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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 image build time.

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 Amazon SDKs, see the following:

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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.

Pattern: `arn:[a-z0-9-]+:lambda:[a-z0-9-]*:[a-z0-9]*:microvm-image:.+`

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 Amazon SDKs, see the following:

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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 Amazon SDKs, see the following:

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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 Amazon SDKs, see the following:

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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 Amazon SDKs, see the following:

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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 Amazon SDKs, see the following:

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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 Amazon 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 Amazon 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 Amazon 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 Amazon Security Token Service (Amazon STS). For a list of services that support temporary security credentials from Amazon STS, see Amazon Web Services services that work with IAM in the *IAM User Guide*.

Condition: If you're using temporary security credentials from Amazon 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 Amazon 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 Amazon 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 Amazon standards. Verify that you're using valid Amazon 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 Amazon 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 Amazon 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 Amazon 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 Amazon 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