Atmos Online Compute Service REST API Guide

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Chapter 1

Compute Service REST API Documentation

1.1 Purpose

This guide provides a reference for the Compute Service REST API. You can use this API to programmatically manage your compute environment.

1.2 Audience

Use this guide if you are responsible for writing applications to manage the compute environment.

Chapter 2

Module Index

2.1 Modules

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Chapter 3

Module Documentation

3.1 Compute Service REST API

Modules

- Operations On VM
- Operations On VDC
- Operations On ORG
- Error Code

3.1.1 Detailed Description

This is the REST API for the Compute Service.

3.2 Operations On VM

Modules

- Get VM Information
- Power Off VM
- Power On VM
- Reset VM
- Suspend VM
- Resume VM
- Clone VM
- Delete VM
- Get VM Management Action List
- Update VM Instance Type
- Get VM List
- Get VM's Virtualnic Information
- Get VM's Virtualnic List

3.3 Operations On VDC

Modules

- Upload Image To VDC
- Deploy NFS server
- Get VDC Information
- Get VDC List Under Organization
- Get Network List
- Get Network Information
- Enable NFS access to Atmos
- Resync NFS access to Atmos

3.4 Operations On ORG

Modules

- List Uploaded Image
- Delete Uploaded Image
- Deploy Uploaded Image
- Get Organization List
- Get Organization Information
- Get Task
- Get Task List

3.5 Error Code

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- InvalidName
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- ConcurrentAccess
- VMCannotGetState
- VMOperationFailed
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- DeployInvalidMD5
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- AuthenticationError
- NoPermission
- ObjectNotFound
- NoLongerExist
- NotSupported
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- ObjectDuplicated
- ConflictResource
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- DeployVDCAmountQuotaReached
- DeployPublicIPAmountQuotaReached
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- FatalError
- InternalError
- ServerBusy
- NetInsufficientMAC
- NetInsufficientVlan
- NetVlanAlreadyExist

- NetRegisterCustomerFail
- NetUnregisterCustmerFail
- NetCreateVMFail
- NetDeleteVMFail
- NfsVmAlreadyExist
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- CommonPortalSubCaaSError
- CommonPortalGetAccountUsersError
- CommonPortalProvisionMaaSError
- CommonPortalAccountNotExist
- CommonPortalMultipleProvision
- MeteringQueryError

3.6 Get VM Information

Returns information about the specified virtual machine. The information includes:

- The VM instance type (small, medium, or large).
- The list of virtual NICs for this VM.
- The list of management actions allowed on this VM such as, power-off, reset, power-on, suspend, resume, and clone.
- The VM's public IP address (if it has one).
- The fully qualified domain name.

Type

Synchronous

Role

Admin

Schema

caas-mo-vm.xsd

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>/vm/<vm-name>

Example:
1.0.0.0/org/caas/vdc/caasvdc/vm/caasvm

HTTP Method

GET

Request Body

No Request Body

Successful Response

Example:

```
<VirtualMachine xmlns="http://www.emc.com/caas" name="caasvm1">
  <status>powered-off</status>
  <virtual-nic-list href="1.0.0.0/org/caas/vdc/caasvdc/vm/caasvm1/virtualnic/"/>
  <management-action-list href="1.0.0.0/org/caas/vdc/caasvdc/vm/caasvm1/mgmt/"/>
  <instance-type>large</instance-type>
  <public-ip>yes</public-ip>
  <fqdn>vm1.cloud.corp.emc.com</fqdn>
  <disk-size>1024</disk-size>
</VirtualMachine>
```

Possible Error Codes

UnsupportedVersion

ObjectNotFound

AuthenticationError

NoPermission

FatalError

3.7 Power Off VM

Use to power-off the specified virtual machine. Returns a task ID.

Type

Asynchronous

Role

Admin

Schema

No Schema

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>/vm/<vm-name>/mgmt/power-off

Example:
1.0.0.0/org/caas/vdc/caasvdc/vm/caasvm/mgmt/power-off

HTTP Method

POST

Request Body

No Request Body

Successful Response

202 Accepted
Location: <version-number>/org/<org-name>/task/<id>

Example:
202 Accepted
Location: 1.0.0.0/org/caas/task/task-30

Possible Error Codes

UnsupportedVersion
ObjectNotFound
AuthenticationError
NoPermission
InvalidState
InvalidName
VMCannotGetState
VMOperationFailed
FatalError

3.8 Power On VM

Use to power-on the specified virtual machine. Returns a task ID.

Type

Asynchronous

Role

Admin

Schema

No Schema

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>/vm/<vm-name>/mgmt/power-on

Example:
1.0.0.0/org/caas/vdc/caasvdc/vm/caasvm/mgmt/power-on

HTTP Method

POST

Request Body

No Request Body

Successful Response

202 Accepted
Location: <version-number>/org/<org-name>/task/<id>

Example:
202 Accepted
Location: 1.0.0.0/org/caas/task/task-30

Possible Error Codes

UnsupportedVersion
ObjectNotFound
AuthenticationError
NoPermission
InvalidState
InvalidName
VMCannotGetState
VMOperationFailed
FatalError

3.9 Reset VM

Use to reset the specified virtual machine. Returns a task ID.

Type

Asynchronous

Role

Admin

Schema

No Schema

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>/vm/<vm-name>/mgmt/reset

Example:

Location: 1.0.0.0/org/caas/vdc/caasvdc/vm/caasvm/mgmt/reset

HTTP Method

POST

Request Body

No Request Body

Successful Response

202 Accepted

Location: <version-number>/org/<org-name>/task/<id>

Example:

202 Accepted

Location: 1.0.0.0/org/caas/task/task-30

Possible Error Codes

UnsupportedVersion

ObjectNotFound

AuthenticationError

NoPermission

InvalidState

InvalidName

VMCannotGetState

VMOperationFailed

FatalError

3.10 Suspend VM

Use to suspend the specified virtual machine. Returns a task ID.

Type

Asynchronous

Role

Admin

Schema

No Schema

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>/vm/<vm-name>/mgmt/suspend

Example:
1.0.0.0/org/caas/vdc/caasvdc/vm/caasvm/mgmt/suspend

HTTP Method

POST

Request Body

No Request Body

Successful Response

202 Accepted
Location: <version-number>/org/<org-name>/task/<id>

Example:
202 Accepted
Location: 1.0.0.0/org/caas/task/task-30

Possible Error Codes

UnsupportedVersion
ObjectNotFound
AuthenticationError
NoPermission
InvalidState
InvalidName
VMCannotGetState
VMOperationFailed
FatalError

3.11 Resume VM

Use to resume a suspended virtual machine. Returns a task ID.

Type

Asynchronous

Role

Admin

Schema

No Schema

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>/vm/<vm-name>/mgmt/resume

Example:
1.0.0.0/org/caas/vdc/caasvdc/vm/caasvm/mgmt/resume

HTTP Method

POST

Request Body

No Request Body

Successful Response

202 Accepted
Location: <version-number>/org/<org-name>/task/<id>

Example:
202 Accepted
Location: 1.0.0.0/org/caas/task/task-30

Possible Error Codes

UnsupportedVersion
ObjectNotFound
AuthenticationError
NoPermission
InvalidState
InvalidName
VMCannotGetState
VMOperationFailed
FatalError

3.12 Clone VM

Clones a VM. Returns a Task ID. The cloned VM:

- Is created within the same parent VDC as the one from which it was cloned.
- Uses the same resource pool as the one from which it is cloned.
- Uses the current datastore.

The cloning operation will fail if the VM you attempt to clone has a public IP, but you have already used your public IP quota for the VDC.

Type

Asynchronous

Role

Admin

Schema

caas-mo-vm.xsd

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>/vm/<vm-name>/mgmt/clone-to-vm

Example:

1.0.0.0/org/caas/vdc/caasvdc/vm/caasvm/mgmt/clone-to-vm

HTTP Method

POST

Request Body

<VirtualMachine name="<clonename>"/>

Example:

<VirtualMachine name="caasvm"/>

Successful Response

202 Accepted

Location: <version-number>/org/<org-name>/task/<id>

Example:

202 Accepted

Location: 1.0.0.0/org/caas/task/task-30

Possible Error Codes

- UnsupportedVersion
- ObjectNotFound
- AuthenticationError
- NoPermission
- InvalidState
- ObjectDuplicated
- InvalidName
- FatalError
- DeployPublicIPAmountQuotaReached
- ReservedName
- DeployVMAmountQuotaReached

3.13 Delete VM

Deletes a VM from the specified VDC. Returns a task ID.

Type

Asynchronous

Role

Admin

Schema

No Schema

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>/vm/<vm-name>

Example:

1.0.0.0/org/caas/vdc/caasvdc/vm/caasvm

HTTP Method

DELETE

Request Body

No Request Body

Successful Response

202 Accepted

Location: <version-number>/org/<org-name>/task/<id>

Example:

202 Accepted

Location: 1.0.0.0/org/caas/task/task-30

Possible Error Codes

UnsupportedVersion

ObjectNotFound

AuthenticationError

NoPermission

InvalidState

FatalError

InvalidName

3.14 Get VM Management Action List

Returns the list of the management actions available for the specified VM. Management actions can include:

- power off
- power on
- reset
- resume
- suspend
- clone

The possible actions, at runtime, depend on the state of the VM. For example, if the VM is powered off, the only management actions that are available for that VM are power on and clone.

Type

Synchronous

Role

Admin

Schema

caas-mo-vm.xsd

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>/vm/<vm-name>/mgmt

Example:

1.0.0.0/org/caas/vdc/caasvdc/vm/caasvm/mgmt

HTTP Method

GET

Request Body

No Request Body

Successful Response

Example:

200 OK

```
<VmManagementActionList xmlns="http://www.emc.com/caas">
  <management-action href="1.0.0.0/org/caas/vdc/caasvdc/vm/caasvm/mgmt/power-on"/>
  <management-action href="1.0.0.0/org/caas/vdc/caasvdc/vm/caasvm/mgmt/clone-on-vm"/>
</VmManagementActionList>
```

Possible Error Codes

UnsupportedVersion

ObjectNotFound

AuthenticationError

NoPermission

FatalError

3.15 Update VM Instance Type

Use to change the VM instance type. Values are small, medium, and large. Returns a task ID.

Type

Asynchronous

Role

Admin

Schema

caas-mo-vm.xsd

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>/vm/<vm-name>

Example:

1.0.0.0/org/caas/vdc/caasvdc/vm/caasvm

HTTP Method

PUT

Request Body

<VirtualMachine><instance-type>small/medium/large</instance-type></VirtualMachine>

Example:

<VirtualMachine><instance-type>medium</instance-type></VirtualMachine>

Successful Response

202 Accepted Location:

<version-number>/org/<org-name>/task/<id>

Example:

202 Accepted Location:

1.0.0.0/org/caas/task/task-30

Possible Error Codes

UnsupportedVersion

ObjectNotFound

XMLValidationError

AuthenticationError

NoPermission

InvalidState

InvalidName

ConflictResource

VMCannotGetState

VMOperationFailed

VMSetInstanceTypeFailed

FatalError

3.16 Get VM List

Returns the list of VMs deployed to the specified VDC.

Type

Synchronous

Role

Admin

Schema

caas-mo-vm.xsd

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>/vm/

Example:

1.0.0.0/org/caas/vdc/caasvdc/vm/

HTTP Method

GET

Request Body

No Request Body

Successful Response

Example:

200 OK

```
<VirtualMachineList xmlns="http://www.emc.com/caas">
  <virtual-machine href="1.0.0.0/org/caas/vdc/caasvdc/caasvm1"/>
  <virtual-machine href="1.0.0.0/org/caas/vdc/caasvdc/caasvm2"/>
</VirtualMachineList>
```

Possible Error Codes

UnsupportedVersion

ObjectNotFound

AuthenticationError

NoPermission

FatalError

3.17 Get VM's Virtualnic Information

Returns the virtual NIC information for the specified VM. The information includes the following:

- Network name
- Fully qualified domain name
- IP address

Type

Synchronous

Role

Admin

Schema

caas-mo-vm-dev.xsd

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>/vm/<vm-name>/virtualnic/<virtualnic-name>

Example:

1.0.0.0/org/caas/vdc/caasvdc/vm/caasvm/virtualnic/Network Adapter 1

HTTP Method

GET

Request Body

No Request Body

Successful Response

Example:

200 OK

```
<VirtualNic xmlns="http://www.emc.com/caas" name="Network Adapter 1">
  <network-name>VM Network</network-name>
  <host-name>hostname</host-name>
  <ip-address>192.168.1.100</ip-address>
</VirtualNic>
```

Possible Error Codes

UnsupportedVersion

ObjectNotFound

AuthenticationError

NoPermission

FatalError

3.18 Get VM's Virtualnic List

Returns the list of Virtual NIC's for the specified VM.

Type

Synchronous

Role

Admin

Schema

caas-mo-vm-dev.xsd

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>/vm/<vm-name>/virtualnic

Example:
1.0.0.0/org/caas/vdc/caasvdc/vm/caasvm/virtualnic

HTTP Method

GET

Request Body

No Request Body

Successful Response

Example:
200 OK
<VirtualNicList xmlns="http://www.emc.com/caas">
<virtual-nic href="1.0.0.0/org/caas/vdc/caasvdc/vm/caasvm/virtualnic/Network Adapter 1">
<virtual-nic href="1.0.0.0/org/caas/vdc/caasvdc/vm/caasvm/virtualnic/Network Adapter 2">
</VirtualNicList>

Possible Error Codes

UnsupportedVersion
ObjectNotFound
AuthenticationError
NoPermission
FatalError

3.19 List Uploaded Image

Returns the names of the VM images that currently reside in the image store for the specified VDC.

Type

Synchronous

Role

Admin

Schema

caas-mo-vm.xsd

URI Syntax

<version-number>/org/<org-name>/imagestore

Example:
1.0.0.0/org/caas/imagestore

HTTP Method

GET

Request Body

No Request Body

Successful Response

Example:
200 OK

```
<ImageList xmlns="http://www.emc.com/caas">
  <ImageList href="1.0.0.0/org/caas/imagestore/caasvm1"/>
  <ImageList href="1.0.0.0/org/caas/imagestore/caasvm2"/>
</ImageList>
```

Possible Error Codes

UnsupportedVersion
ObjectNotFound
AuthenticationError
NoPermission
FatalError

Returns the names of the templates that currently reside in the template store.

Type

Synchronous

Role

Admin

Schema

caas-mo-vm.xsd

URI Syntax

<version-number>/org/<org-name>/template

Example:

1.0.0.0/org/caas/template

HTTP Method

GET

Request Body

No Request Body

Successful Response

Example:

200 OK

<ImageList xmlns="http://www.emc.com/caas">

<ImageList href="1.0.0.0/org/caas/template/template1"/>

<ImageList href="1.0.0.0/org/caas/template/template2"/>

</ImageList>

Possible Error Codes

UnsupportedVersion

ObjectNotFound

AuthenticationError

NoPermission

FatalError

3.20 Upload Image To VDC

Uploads a VM image to the server. Once an image is uploaded, it can be deployed to the VDC. Before you can upload a VM image to the image repository, you must preprocess it using the CLI command emc-caas-preuploadimage. Only one image can reside in the image store at a time.

Type

Synchronous

Role

Admin

Schema

caas-mo-manifest.xsd

URI Syntax

<version-number>/org/<org-name>/imagestore

Example:

1.0.0.0/org/caas/imagestore

HTTP Method

POST

Request Body

The multipart form data. Here is an example for upload a file:

-- AaB03x

content-disposition: form-data; name="caasvm"

caasvm

-- AaB03x

content-disposition:form-data;name=="File"; filename="caasfile"

Content-Type: application/octet-stream

...file content...

-- AaB03x--

For more information, refer to RFC1867.

Successful Response

200 OK

Possible Error Codes

UnsupportedVersion

XMLMalformed

XMLValidationError

ObjectNotFound

AuthenticationError

NoPermission

FatalError

UploadImageSizeQuotaReached

UploadImageAmountQuotaReached

UploadFileFailed

UploadImageZipPartDuplicated

UploadImageDuplicated

InvalidName

3.21 Delete Uploaded Image

Deletes a VM image from the server.

Type

Synchronous

Role

Admin

Schema

No Schema

URI Syntax

<version-number>/org/<org-name>/imagestore/<image-name>

Example:
1.0.0.0/org/caas/imagestore/caasimage

HTTP Method

DELETE

Request Body

No Request Body

Successful Response

200 OK

Possible Error Codes

UnsupportedVersion
ObjectNotFound
AuthenticationError
NoPermission
FatalError
InvalidName

3.22 Deploy Uploaded Image

Deploys a VM image from the server to the VDC. Once a VM image is deployed, it can become a running instance. You can deploy the same image multiple times.

Type

Asynchronous

Role

Admin

Schema

caas-mo-vm.xsd

URI Syntax

<version-number>/org/<org-name>/imagestore/<image-name>

Example:
1.0.0.0/org/caas/imagestore/caasimage

HTTP Method

POST

Request Body

<VirtualMachine name="<deployedname>">
  <instance-type>small/medium/large</instance-type>
  <has-publicIP>true/false</has-publicIP>
</VirtualMachine>

Example:
<VirtualMachine name="caas_deploy">
  <instance-type>large</instance-type>
  <has-publicIP>true</has-publicIP>
</VirtualMachine>

Successful Response

202 Accepted
Location: <version-number>/org/<org-name>/task/<id>

Example:
202 Accepted
Location: 1.0.0.0/org/caas/task/task-30

Possible Error Codes

- UnsupportedVersion
- ObjectNotFound
- AuthenticationError
- NoPermission
- InvalidState
- ObjectDuplicated
- InvalidName
- ReservedName
- FatalError
- DeployVMAmountQuotaReached
- DeployBadVMImageLackVMDK
- DeployBadVMImageLackVMX
- NetConfigurePubIPForOneNic
- NetNotConfigurePubIPForTwoNic
- DeployPublicIPAmountQuotaReached

3.23 Deploy NFS server

Enables NFS access to the Storage Service.

Type

Asynchronous

Role

Admin and Atmos Account Manager

Schema

caas-mo-vm.xsd

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>/imagestore/nfs

Example:
1.0.0.0/org/caas/vdc/caasvdc/imagestore/nfs

HTTP Method

POST

Request Body

<VirtualMachine name="<deployedname>">
</VirtualMachine>

Example:
<VirtualMachine name="nfsserver">
</VirtualMachine>

Successful Response

202 Accepted
Location: <version-number>/org/<org-name>/task/<id>

Example:
202 Accepted
Location: 1.0.0.0/org/caas/task/task-30

Possible Error Codes

UnsupportedVersion
ObjectNotFound
AuthenticationError
NoPermission
InvalidState
ObjectDuplicated
InvalidName
FatalError

3.24 Get VDC Information

Returns the list of virtual machines and networks currently deployed in the specified VDC.

Type

Synchronous

Role

Admin

Schema

caas-mo-vdc.xsd

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>

Example:

1.0.0.0/org/caas/vdc/vdc1

HTTP Method

GET

Request Body

No Request Body

Successful Response

200 OK

```
<VirtualDataCenter xmlns="http://www.emc.com/caas" name="vdc1">
    <virtual-machine-list href="1.0.0.0/org/org1/vdc/vdc1/vm/"/>
    <network-list href="1.0.0.0/org/org1/vdc/vdc1/network/"/>
    <network-list href="1.0.0.0/org/org1/vdc/vdc1/imagestore/"/>
</VirtualDataCenter>
```

Example:

200 OK

```
<VirtualDataCenter xmlns="http://www.emc.com/caas" name="vdc1">
    <virtual-machine-list href="1.0.0.0/org/org1/vdc/vdc1/vm/"/>
    <network-list href="1.0.0.0/org/org1/vdc/vdc1/network/"/>
    <network-list href="1.0.0.0/org/org1/vdc/vdc1/imagestore/"/>
</VirtualDataCenter>
```

Possible Error Codes

- UnsupportedVersion
- ObjectNotFound
- AuthenticationError
- NoPermission
- InvalidState
- ObjectDuplicated
- FatalError
- DeployVMAmountQuotaReached
- DeployBadVMImageLackVMDK
- DeployBadVMImageLackVMX
- UploadImageAmountQuotaReached

3.25 Get VDC List Under Organization

Returns the names of the VDCs that exist for the specified organization.

Type

Synchronous

Role

Admin

Schema

caas-mo-vdc.xsd

URI Syntax

<version-number>/org/<org-name>/vdc

Example:

1.0.0.0/org/caas/vdc

HTTP Method

GET

Request Body

No Request Body

Successful Response

200 OK

```
<VirtualDataCenterList xmlns="http://www.emc.com/caas">
  <virtual-datacenter href="<vdc-url>"/>
  <virtual-datacenter href="<vdc-url>"/>
</VirtualDataCenterList>
```

Example:

200 OK

```
<VirtualDataCenterList xmlns="http://www.emc.com/caas">
  <virtual-datacenter href="1.0.0.0/org/org1/vdc/vdc1"/>
  <virtual-datacenter href="1.0.0.0/org/org1/vdc/vdc2"/>
</VirtualDataCenterList>
```

Possible Error Codes

UnsupportedVersion

ObjectNotFound

AuthenticationError

NoPermission

InvalidState

ObjectDuplicated

FatalError

DeployVMAmountQuotaReached

DeployBadVMImageLackVMDK

DeployBadVMImageLackVMX

UploadImageAmountQuotaReached

3.26 Get Network List

Use to obtain the list of networks for the specified VDC.

Type

Synchronous

Role

Admin

Schema

caas-mo-network.xsd

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>/network

Example:

1.0.0.0/org/caas/vdc/caasvdc/network

HTTP Method

GET

Request Body

No Request Body

Successful Response

Example:

200 OK

<NetworkList xmlns="http://www.emc.com/caas">

<network href="1.0.0.0/org/caas/vdc/caasvdc/network/MyprivateNetwork1">

<network href="1.0.0.0/org/caas/vdc/caasvdc/network/MyprivateNetwork2">

</NetworkList>

Possible Error Codes

UnsupportedVersion

ObjectNotFound

AuthenticationError

NoPermission

FatalError

3.27 Get Network Information

Use this method to obtain information about the specified network. It returns network scope which defines whether the named network is public or private.

Type

Synchronous

Role

Admin

Schema

caas-mo-network.xsd

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>/network/<network-name>

Example:

1.0.0.0/org/caas/vdc/caasvdc/network/MyprivateNetwork1

HTTP Method

GET

Request Body

No Request Body

Successful Response

Example:

200 OK

```
<Network xmlns="http://www.emc.com/caas" name="MyprivateNetwork1">
  <scope>private</scope>
</Network>
```

Possible Error Codes

UnsupportedVersion

ObjectNotFound

AuthenticationError

NoPermission

FatalError

3.28 Enable NFS access to Atmos

Enables access to the Atmos Online Storage Service through NFS.

Type

Asynchronous

Role

Admin and Atmos Account Manager

Schema

No Schema

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>/nfs

Example:

1.0.0.0/org/caas/vdc/caasvdc/nfs

HTTP Method

POST

Request Body

No Request Body

Successful Response

202 Accepted

Location: <version-number>/org/<org-name>/task/<id>

Example:

202 Accepted

Location: 1.0.0.0/org/caas/task/task-30

Possible Error Codes

NfsVmAlreadyExist

NfsVmIsDeploying

NfsVmCountFull

NfsDeployVmFail

NfsDeployVmTimeout

NfsPowerOnVmFail

NfsNullInfraIp

NfsWsNotStarted

NfsNullParam

NfsNullStorageIp

NfsWsException

NfsVMNotFound

NfsVersionNotSupport

NfsNullSubsriptionId

NfsListAllTokensFail

NfsSetRmgIpFail

NfsSetHostsFail

NfsUploadFail

3.29 Resync NFS access to Atmos

Use when you have added or removed Storage Service authentication tokens to ensure that NFS has the most up-to-date tokens.

Type

Asynchronous

Role

Admin and Atmos Account Manager

Schema

No Schema

URI Syntax

<version-number>/org/<org-name>/vdc/<vdc-name>/nfs

Example:

1.0.0.0/org/caas/vdc/caasvdc/nfs

HTTP Method

PUT

Request Body

No Request Body

Successful Response

202 Accepted

Location: <version-number>/org/<org-name>/task/<id>

Example:

202 Accepted

Location: 1.0.0.0/org/caas/task/task-30

Possible Error Codes

NfsVmAlreadyExist

NfsVmIsDeploying

NfsVmCountFull

NfsDeployVmFail

NfsDeployVmTimeout

NfsPowerOnVmFail

NfsNullInfraIp

NfsWsNotStarted

NfsNullParam

NfsNullStorageIp

NfsWsException

NfsVMNotFound

NfsVersionNotSupport

NfsNullSubsriptionId

NfsListAllTokensFail

NfsSetRmgIpFail

NfsSetHostsFail

NfsUploadFail

3.30 Get Organization List

Returns the list of organizations.

Type

Synchronous

Role

Admin

Schema

caas-mo-org.xsd

URI Syntax

<version-number>/org

Example:
1.0.0.0/org

HTTP Method

GET

Request Body

No Request Body

Successful Response

Example:
200 OK

```
<OrganizationList xmlns="http://www.emc.com/caas">
  <organization href="1.0.0.0/org/caas1"/>
  <organization href="1.0.0.0/org/caas2"/>
</OrganizationList>
```

Possible Error Codes

UnsupportedVersion
ObjectNotFound
AuthenticationError
NoPermission
FatalError

3.31 Get Organization Information

Use to obtain the list of VDCs and tasks for the specified organization.

Type

Synchronous

Role

Admin

Schema

caas-mo-org.xsd

URI Syntax

<version-number>/org/<org-name>

Example:
1.0.0.0/org/caas

HTTP Method

GET

Request Body

No Request Body

Successful Response

Example:
200 OK

```
<Organization xmlns="http://www.emc.com/caas" name="org1">
  <vdc-list href="1.0.0.0/org/caas/vdc"/>
  <task-list href="1.0.0.0/org/caas/task"/>
</Organization>
```

Possible Error Codes

UnsupportedVersion
ObjectNotFound
AuthenticationError
NoPermission
FatalError

3.32 Get Task

Returns the details of the specified task including:

- The task start and end time (in dateTime format).
- The task type. Valid types are:
  - PowerOnVm
  - PowerOffVm
  - SuspendVm
  - ResumeVm
  - ResetVm
  - CloneVm
  - UpdateVm
  - DeleteVDC
  - DeployVm
  - DeleteVm
  - CreateVDC
  - EnableNFS
  - ResyncNFS
- The status of the task. Valid statuses are:
  - completed
  - failed
  - started
  - starting
  - stopped
  - stopping
  - abandoned
  - unknown
  - running-overtime
- Whether the task can be cancelled (true or false).

Type

Synchronous

Role

Admin

Schema

caas-mo-task.xsd

URI Syntax

<version-number>/org/<org-name>/task/<task-id>

Example:

1.0.0.0/org/caas/task/task-30

HTTP Method

GET

Request Body

No Request Body

Successful Response

Example:

200 OK

```
<Task xmlns="http://www.emc.com/caas" name="task-112">
  <object-name>caasvm1</object-name>
  <start-time>2008-12-22T10:54:02.281+08:00</start-time>
  <end-time>2008-12-22T10:54:02.766+08:00</end-time>
  <type>DeleteVm</type>
  <status>success</status>
  <cancelable>false</cancelable>
</Task>
```

Possible Error Codes

UnsupportedVersion

ObjectNotFound

AuthenticationError

NoPermission

FatalError

3.33 Get Task List

Returns the list of tasks for the specified organization.

Type

Synchronous

Role

Admin

Schema

caas-mo-task.xsd

URI Syntax

<version-number>/org/<org-name>/task

Example:

1.0.0.0/org/caas/task

HTTP Method

GET

Request Body

No Request Body

Successful Response

Example:

200 OK

```
<TaskList xmlns="http://www.emc.com/caas">
  <task href="1.0.0.0/org/caas/task/task-1951">
  <task href="1.0.0.0/org/caas/task/task-1952">
</TaskList>
```

Possible Error Codes

UnsupportedVersion

ObjectNotFound

AuthenticationError

NoPermission

FatalError

3.34 Failed Response

Reponse body when API call fails.

HTTP Response Body

<ErrorMessage xmlns="http://www.emc.com/caas">
<code>Error Code</code>
<message>Error Message</message>
</ErrorMessage>

Example:
<ErrorMessage xmlns="http://www.emc.com/caas">
<code>ObjectNotFound</code>
<message>The virtual machine caasvm does not exist!</message>
</ErrorMessage>

3.35 DuringDeleting

The resource is being deleted.

HTTP Status Code

400 Bad Request

3.36 ReservedName

The name you selected is reserved, please select another name.

HTTP Status Code

400 Bad Request

3.37 UnsupportedVersion

The version specified in URL is an unsupported version.

HTTP Status Code

400 Bad Request

3.38 DeployBadVMImageLackVMDK

Bad VM Image, VMDK file does not exist.

HTTP Status Code

400 Bad Request

3.39 DeployBadVMImageLackVMX

Bad VM Image, VMX file does not exist.

HTTP Status Code

400 Bad Request

3.40 UploadImageAmountQuotaReached

You have reached the maximum number for uploaded images for this VDC. Please delete one uploaded image before uploading a new one.

HTTP Status Code

400 Bad Request

3.41 UploadImageSizeQuotaReached

You have reached the maximum size for an uploaded image.

HTTP Status Code

400 Bad Request

3.42 UploadFileFailed

Upload failed. Please try the upload again.

HTTP Status Code

400 Bad Request

3.43 XMLValidationError

The XML did not validate against the published schema.

HTTP Status Code

400 Bad Request

3.44 XMLMalformed

The XML was not well-formed.

HTTP Status Code

400 Bad Request

3.45 InvalidName

Invalid name.

HTTP Status Code

400 Bad Request

3.46 InvalidState

The attempted operation cannot be performed in the current state.

HTTP Status Code

400 Bad Request

3.47 InvalidArgument

The argument is not valid.

HTTP Status Code

400 Bad Request

3.48 ConcurrentAccess

Operation failed because another operation has modified the datastructure.

HTTP Status Code

400 Bad Request

3.49 VMCannotGetState

Cannot get VM state.

HTTP Status Code

400 Bad Request

3.50 VMOperationFailed

Operation on VM failed.

HTTP Status Code

400 Bad Request

3.51 VMSetInstanceTypeFailed

Set VM instance type failed.

HTTP Status Code

400 Bad Request

3.52 DeployInvalidMD5

File integrity check failed.

HTTP Status Code

400 Bad Request

3.53 DeployInvalidManifestCountNotEqual

Manifest file is invalid, count of parts does not match the count in the manifest file.

HTTP Status Code

400 Bad Request

3.54 DeployInvalidManifestIndexNotCorrect

Manifest file is invalid, part indexes are not correct.

HTTP Status Code

400 Bad Request

3.55 DeployBadVMImageInvalidConfig

Bad VM Image, VM configuration format is invalid.

HTTP Status Code

400 Bad Request

3.56 DeployImageNotFound

The VM image cannot found.

HTTP Status Code

400 Bad Request

3.57 DeployManifestFileNotFound

The manifest file cannot found.

HTTP Status Code

400 Bad Request

3.58 DeployImageZipPartNotFound

The VM image zip part cannot found.

HTTP Status Code

400 Bad Request

3.59 AuthenticationError

Authentication Failed.

HTTP Status Code

401 Unauthorized

3.60 NoPermission

You do not have permission to access the object.

HTTP Status Code

403 Forbidden

3.61 ObjectNotFound

The specified object does not exist.

HTTP Status Code

404 Not Found

3.62 NoLongerExist

The specified object no longer exists.

HTTP Status Code

404 Not Found

3.63 NotSupported

The attempted operation is not supported.

HTTP Status Code

405 Method Not Allowed

3.64 CommonPortalLastCaaSAdmin

The user is the last Compute Service admin of the organization. The operation failed.

HTTP Status Code

405 Method Not Allowed

3.65 ObjectDuplicated

The object already exists in the same namespace. Please specify a different name and try again.

HTTP Status Code

409 Conflict

3.66 ConflictResource

Resource is in use.

HTTP Status Code

409 Conflict

3.67 DeployVMAmountQuotaReached

You have reached the maximum number of VMs for this VDC. You will need to delete VMs before you can deploy another one.

HTTP Status Code

409 Conflict

3.68 DeployVDCAmountQuotaReached

You have reached the maximum number of VDCs for the system. You will need to delete VDCs before creating any new one.

HTTP Status Code

409 Conflict

3.69 DeployPublicIPAmountQuotaReached

You have reached the maximum number of public IP addresses for this VDC. You will need to delete VMs configured to use public IPs before deploying another one.

HTTP Status Code

409 Conflict

3.70 UploadImageDuplicated

Image zip already exists, cannot upload again.

HTTP Status Code

409 Conflict

3.71 UploadImageZipPartDuplicated

The VM image zip part already exists, cannot upload again.

HTTP Status Code

409 Conflict

3.72 NetConfigurePubIPForOneNic

Cannot configure a public IP for a VM that with one vnic.

HTTP Status Code

417 Expectation Failed

3.73 NetNotConfigurePubIPForTwoNic

You must configure a public IP for a VM that with two vnics.

HTTP Status Code

417 Expectation Failed

3.74 FatalError

An unrecoverable has occurred, please call customer support.

HTTP Status Code

500 Internal Server Error

3.75 InternalError

Server internal error.

HTTP Status Code

500 Internal Server Error

3.76 ServerBusy

Server resource is busy, please wait 10 minutes and try again.

HTTP Status Code

500 Internal Server Error

3.77 NetInsufficientMAC

Insufficient MAC Address.

HTTP Status Code

500 Internal Server Error

3.78 NetInsufficientVlan

Insufficient VLAN.

HTTP Status Code

500 Internal Server Error

3.79 NetVlanAlreadyExist

VLANs already exist for this customer and VDC.

HTTP Status Code

500 Internal Server Error

3.80 NetRegisterCustomerFail

Failed to provision network.

HTTP Status Code

500 Internal Server Error

3.81 NetUnregisterCustmerFail

Failed to un-provision network.

HTTP Status Code

500 Internal Server Error

3.82 NetCreateVMFail

Failed to provision network for VM.

HTTP Status Code

500 Internal Server Error

3.83 NetDeleteVMFail

Failed to un-provision network for VM.

HTTP Status Code

500 Internal Server Error

3.84 NfsVmAlreadyExist

NFS is already enabled.

HTTP Status Code

500 Internal Server Error

3.85 NfsVmIsDeploying

NFS server is already deployed.

HTTP Status Code

500 Internal Server Error

3.86 NfsVmCountFull

Current NFS server count reached, unable to deploy new NFS server.

HTTP Status Code

500 Internal Server Error

3.87 NfsDeployVmFail

Deploy NFS server failed.

HTTP Status Code

500 Internal Server Error

3.88 NfsDeployVmTimeout

Deploy NFS server timeout.

HTTP Status Code

500 Internal Server Error

3.89 NfsPowerOnVmFail

Power on NFS server failed.

HTTP Status Code

500 Internal Server Error

3.90 NfsNullInfraIp

Cannot get NFS server infrastructure IP.

HTTP Status Code

500 Internal Server Error

3.91 NfsWsNotStarted

Web server on NFS server is not started.

HTTP Status Code

500 Internal Server Error

3.92 NfsNullParam

Cannot get parameters from DB to configure NFS server.

HTTP Status Code

500 Internal Server Error

3.93 NfsNullStorageIp

Cannot get NFS server storage IP.

HTTP Status Code

500 Internal Server Error

3.94 NfsWsException

Exception with web service on NFS server.

HTTP Status Code

500 Internal Server Error

3.95 NfsVMNotFound

Cannot find NFS server, resync NFS is forbidden.

HTTP Status Code

500 Internal Server Error

3.96 NfsVersionNotSupport

The Compute Service and NFS server versions do not match.

HTTP Status Code

500 Internal Server Error

3.97 NfsNullSubsriptionId

Cannot get Storage Service subscription ID.

HTTP Status Code

500 Internal Server Error

3.98 NfsListAllTokensFail

Call Storage Service listAllTokens failed.

HTTP Status Code

500 Internal Server Error

3.99 NfsSetRmgIpFail

Exception configuring rmgip.

HTTP Status Code

500 Internal Server Error

3.100 NfsSetHostsFail

Exception configuring /etc/hosts file.

HTTP Status Code

500 Internal Server Error

3.101 NfsUploadFail

Upload file failed.

HTTP Status Code

500 Internal Server Error

3.102 CommonPortalErrorGeneral

Common portal error.

HTTP Status Code

500 Internal Server Error

3.103 CommonPortalNoCaaSSub

The account has no Compute Service subscription.

HTTP Status Code

500 Internal Server Error

3.104 CommonPortalNoMaaSSub

The account has no Storage Service subscription.

HTTP Status Code

500 Internal Server Error

3.105 CommonPortalInvalidCaaSSubId

The Compute Service subscription ID is invalid for this account.

HTTP Status Code

500 Internal Server Error

3.106 CommonPortalCannotProvision

You cannot provision te Compute Service in the current state.

HTTP Status Code

500 Internal Server Error

3.107 CommonPortalSubCaaSError

Compute Service subscription error.

HTTP Status Code

500 Internal Server Error

3.108 CommonPortalGetAccountUsersError

Get users error.

HTTP Status Code

500 Internal Server Error

3.109 CommonPortalProvisionMaaSError

Storage Service provision error.

HTTP Status Code

500 Internal Server Error

3.110 CommonPortalAccountNotExist

The account does not exist.

HTTP Status Code

500 Internal Server Error

3.111 CommonPortalMultipleProvision

Another provision related to your identity is in progress. You cannot provision again.

HTTP Status Code

500 Internal Server Error

3.112 MeteringQueryError

An error occured while querying metering data.

HTTP Status Code

500 Internal Server Error

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