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About Clusters

Administrator can use this API to fetch the details of a Unity Connection cluster. This page contains information on how to use the CUPI API to view cluster information.

Listing Cisco Unity Connection Cluster locations

The following is an example of a GET that displays cluster information:

```
GET http://<connection-server>/vmrest/cluster
```

The following is the response from the above GET request:

```
200
OK
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
 <VmsServers total="2">
  <VmsServer>
   <URI>/vmrest/vmsservers/3ee10726-9634-4066-bfcb-c936bc074be6</URI>
   <ObjectId>3ee10726-9634-4066-bfcb-c936bc074be6</ObjectId>
   <ServerName> qa-ks-vm-279</ServerName>
   <IpAddress>10.65.156.193</IpAddress>
   <VmsServerObjectId>3ee10726-9634-4066-bfcb-c936bc074be6</VmsServerObjectId>
   <ClusterMemberId>0</ClusterMemberId>
   <ServerState>1</ServerState>
   <HostName> qa-ks-vm-279.cisco.com</HostName>
   <ServerDisplayState>3</ServerDisplayState>
   <IpAddressV6>fe80::250:56ff:feab:1c6</ IpAddressV6>
   <SubToPerformReplicationRole>false</SubToPerformReplicationRole>
  </VmsServer>
  <VmsServer>
   <URI>/vmrest/vmsservers/a57a68c6-782f-4757-945c-270e0fba2734</URI>
   <ObjectId>a57a68c6-782f-4757-945c-270e0fba2734</ObjectId>
   <ServerName> qa-ks-vm-279.cisco.com </ServerName>
   <IpAddress>10.65.156.252</IpAddress>
   <VmsServerObjectId>a57a68c6-782f-4757-945c-270e0fba2734</VmsServerObjectId>
   <ClusterMemberId>1</ClusterMemberId>
```

```
   <ServerState>8</ServerState>
   <HostName> qa-ks-vm-279.cisco.com </HostName>
   <ServerDisplayState>4</ServerDisplayState>
   <IpAddressV6>fe85::450:56ff:feab:1c6</ IpAddressV6>
   <SubToPerformReplicationRole>false</SubToPerformReplicationRole>
  </VmsServer>
 </VmsServers>
```

In case of a standalone location, only the data related to that location gets displayed.

JSON Example

The following is an example of a GET that displays the list of servers in the cluster:

```
GET http://<connection-server>/vmrest/vmsservers
Accept: application/json
Content-type: application/json
Connection: keep-alive
```

The following is the response from the above *GET* request and the actual response will depend upon the information given by you:

```
200
OK
{
 "@total": "2",
 "VmsServer":[
 {
  "URI": "/vmrest/vmsservers/ef03ca05-3c05-4465-9985-9de371e2e94e",
  "ObjectId": "ef03ca05-3c05-4465-9985-9de371e2e94e",
  "ServerName": " qa-ks-vm-19",
  "IpAddress": "10.78.171.134",
  "VmsServerObjectId": "ef03ca05-3c05-4465-9985-9de371e2e94e",
  "ClusterMemberId": "0",
  "ServerState": "20",
  "HostName": " qa-ks-vm-19.cisco.com",
  "ServerDisplayState": "3",
  "IpAddressV6":"fe80::250:56ff:feab:1c6"
  "SubToPerformReplicationRole": "false"
 },
 {
  ?URI? : ?/vmrest/vmsservers/a57a68c6-782f-4757-945c-270e0fba2734?,
  ?ObjectId? : ?a57a68c6-782f-4757-945c-270e0fba2734?,
  ?ServerName? : ?qa-ks-vm-279.cisco.com?,
  ?IpAddress? : ?10.65.156.25?,
  ?VmsServerObjectId? : ?a57a68c6-782f-4757-945c-270e0fba2734?,
  ?ClusterMemberId? : ?1?,
  ?ServerState? : ?8?,
  ?HostName? : ?qa-ks-vm-279.cisco.com?,
  ?ServerDisplayState>?: ?4?,
  "IpAddressV6":"fe85::450:56ff:feab:1c6"
  ?SubToPerformReplicationRole?: ?false?
 } ]
}
```

Viewing a specific location in Cisco Unity Connection Cluster

Administrator can use this API to fetch details of a particular server in a Unity Connection cluster. The following is an example of the GET request :

```
GET https://<connection-server>/vmrest/vmsservers/<vmsServerObjectId>
```

The following is the response from the above *GET* request and the actual response will depend upon the information given by you:

```
200
ok
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
 <VmsServer>
  <URI>/vmrest/vmsservers/3ee10726-9634-4066-bfcb-c936bc074be6</URI>
  <ObjectId>3ee10726-9634-4066-bfcb-c936bc074be6</ObjectId>
  <ServerName> qa-ks-vm-279</ServerName>
  <IpAddress>10.65.156.193</IpAddress>
  <VmsServerObjectId>3ee10726-9634-4066-bfcb-c936bc074be6</VmsServerObjectId>
  <ClusterMemberId>0</ClusterMemberId>
  <ServerState>1</ServerState>
  <HostName> qa-ks-vm-279.cisco.com</HostName>
  <ServerDisplayState>3</ServerDisplayState>
  <IpAddressV6>fe85::450:56ff:feab:1c6</ IpAddressV6>
  <SubToPerformReplicationRole>false</SubToPerformReplicationRole>
 </VmsServer>
```

JSON Example

The following is an example of the GET command to view the details of particular server in the cluster.

```
GET https://< connection-server >/vmrest/vmsservers/<vmsServerObjectId>
Accept: application/json
Content-type: application/json
Connection: keep-alive
```

The following is the response from the above *GET* request and the actual response will depend upon the information given by you:

```
200
Ok
{
 {
  "URI": "/vmrest/vmsservers/ef03ca05-3c05-4465-9985-9de371e2e94e",
  "ObjectId": "ef03ca05-3c05-4465-9985-9de371e2e94e",
  "ServerName": " qa-ks-vm-19",
  "IpAddress": "10.78.171.134",
  "VmsServerObjectId": "ef03ca05-3c05-4465-9985-9de371e2e94e",
  "ClusterMemberId": "0",
  "ServerState": "20",
  "HostName": " qa-ks-vm-19.cisco.com",
  "ServerDisplayState": "3",
  "IpAddressV6":"fe80::250:56ff:feab:1c6"

  "SubToPerformReplicationRole": "false"
 }
}
```

Explanation of Data Fields

Parameter	Operations	Data Type	Comments
Object id	char	Read-Only	Acts as a primary key for the API. The ObjectID is a unique system-generated

			identifier for a VMSServer object.
ServerName	nvarchar	Read-Only	Specifies the name of the server.
IpAddress	varchar	Read-Only	Specifies the IP address of the server.
VmsServerObjectId	char	Read-Only	Acts as a primary key for the API. The VmsServerObjectId is a unique system-generated identifier for a VMSServer object.
ClusterMemberId	smallint	Read-Only	Specifies a unique number assigned to each server in the cluster as per their failover order. Values can be: • 0-Primary • 1-Secondary
ServerState	int	Read-Only	Specifies the current state of the server. Values can be: • 0-Pri_Init • 1-Pri_Active • 2-Pri_Act_Secondary • 3-Pri_Idle • 4-Pri_Failover • 5-Pri_Takeover • 6-Pri_SBR • 7-Sec_Init • 8-Sec_Active • 9-Sec_Act_Primary • 10-Sec_Idle • 11-Sec_Takeover • 12-Sec_Failover • 13-Sec_SBR • 14-Db_Sync • 15-Set_Peer_Idle • 16-Undefined • 17-Pri_Active_Disconnected • 18-Pri_Connecting • 19-Pri_Choose_Role • 20-Pri_Single_Server • 21-Sec_Act_Primary_Disconnected • 22-Sec_Connecting • 23-Sec_Choose_Role • 24-Shutdown
HostName	varchar	Read-Only	Indicates the hostname of the VMS server
ServerDisplayState	int	Read-Only	Specifies the values for the admin to display current server status.

			Values can be: • 0 ? UNKNOWN • 1 ? DOWN • 2 ? INITIALIZING • 3 ? PRIMARY • 4 ? SECONDARY • 5 ? IDLE • 6 - IN_DB_SYNC • 7 - IN_SBR
IpAddressV6	varchar	Read-Only	Specifies the IPV6 address of the server.
SubToPerformReplicationRole	boolean	Read-Only	Note ? Defined for future purpose. Indicates whether the subscriber machine is enabled for directory replication; On Publisher machine its value is always false. Values can be: • 0- false • 1- true