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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>
```

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```
<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 :

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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

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			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: <ul style="list-style-type: none"> <li>• 0-Primary</li> <li>• 1-Secondary</li> </ul>
ServerState	int	Read-Only	Specifies the current state of the server.  Values can be: <ul style="list-style-type: none"> <li>• 0-Pri_Init</li> <li>• 1-Pri_Active</li> <li>• 2-Pri_Act_Secondary</li> <li>• 3-Pri_Idle</li> <li>• 4-Pri_Failover</li> <li>• 5-Pri_Takeover</li> <li>• 6-Pri_SBR</li> <li>• 7-Sec_Init</li> <li>• 8-Sec_Active</li> <li>• 9-Sec_Act_Primary</li> <li>• 10-Sec_Idle</li> <li>• 11-Sec_Takeover</li> <li>• 12-Sec_Failover</li> <li>• 13-Sec_SBR</li> <li>• 14-Db_Sync</li> <li>• 15-Set_Peer_Idle</li> <li>• 16-Undefined</li> <li>• 17-Pri_Active_Disconnected</li> <li>• 18-Pri_Connecting</li> <li>• 19-Pri_Choose_Role</li> <li>• 20-Pri_Single_Server</li> <li>• 21-Sec_Act_Primary_Disconnected</li> <li>• 22-Sec_Connecting</li> <li>• 23-Sec_Choose_Role</li> <li>• 24-Shutdown</li> </ul>
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.

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			<p>Values can be:</p> <ul style="list-style-type: none"> <li>• 0 ? UNKNOWN</li> <li>• 1 ? DOWN</li> <li>• 2 ? INITIALIZING</li> <li>• 3 ? PRIMARY</li> <li>• 4 ? SECONDARY</li> <li>• 5 ? IDLE</li> <li>• 6 - IN_DB_SYNC</li> <li>• 7 - IN_SBR</li> </ul>
IpAddressV6	varchar	Read-Only	Specifies the IPV6 address of the server.
SubToPerformReplicationRole	boolean	Read-Only	<p>Note ? Defined for future purpose.</p> <p>Indicates whether the subscriber machine is enabled for directory replication; On Publisher machine its value is always false.</p> <p>Values can be:</p> <ul style="list-style-type: none"> <li>• 0- false</li> <li>• 1- true</li> </ul>