EON Service

Contents

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ESX integration in HP Helion OpenStack enables administrators to connect their cloud to an existing VMware vCenter installation. The VMware vCenter driver connects to ESXi clusters in a vCenter through Compute proxy nodes. The Nova scheduler sees the ESXi clusters as compute nodes and uses that information for scheduling a new instance.

The ESX on border (EON) service is an inventory which interacts with the VMware vCenter server and collects the information available at the datacenters and clusters. This information is used for deployment and configuration of ESX Proxy Compute nodes.

EON, a new service sub component, captures details of the vCenter server in a Cloud Controller and provides the details of the clusters for configuring the list of clusters managed by ESX Proxy Compute node. The ESX Proxy Compute driver communicates to VMware vCenter server through VI SDK.

Host Commissioning

Perform the following steps to add a new host to an activated cluster.
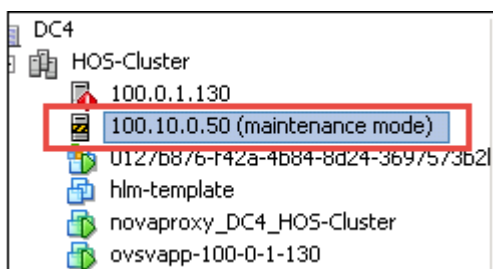
1. List the current state of the cluster using EON python client.

```
# eon cluster-list --vcenter-id <vCenter ID>
```

For example:

```
# eon cluster-list --vcenter-id BC9DED4E-1639-481D-B190-2B54A2BF5674
+------------+------------+----------------+
| MOID | Name| Datacenter | Import Status   |
+------------+------------+----------------+
| domain-c21 | Cluster1   | DC1 | activated |
+------------+------------+----------------+
```

2. Add host in the maintenance mode to the already activated cluster as shown below.

3. Execute the following command to import the eon cluster.

```
# eon cluster-import --vcenter-id <vCenter ID> --cluster-name <Cluster
 Name> --cluster-moid <Cluster Moid>
```

For example:

```
# eon cluster-import --vcenter-id BC9DED4E-1639-481D-B190-2B54A2BF5674 --
cluster-name Cluster1 --cluster-moid domain-c21
+--------------+-----------+
| Property     | Value     |
+--------------+-----------+
| cpu_free     | 83071.73  |
| cpu_total    | 83072     |
| cpu_used     | 0.27      |
```

```
| datacenter   | DC1       |
| disk_free    | 1022.79   |
| disk_total   | 1023.75   |
| errors       | []        |
| memory_free  | 496.82    |
| memory_total | 511.76    |
| memory_used  | 14.94     |
| name         | Cluster1  |
| state        | importing |
| switches     | []        |
+--------------+-----------+
```

After successful import the cluster state will change to partially_activated and the hosts would have moved to folder with ovsvapp installed.

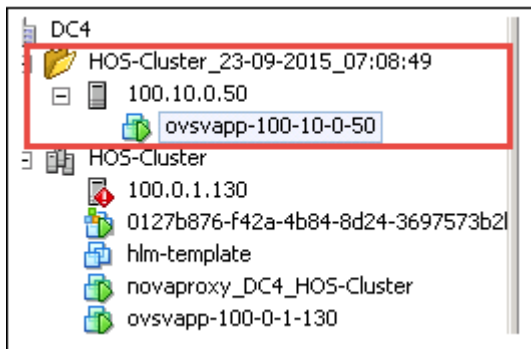4. To know the cluster state, execute the following command:

```
# eon cluster-list --vcenter-id <vCenter ID>
```

For example:

```
# eon cluster-list --vcenter-id BC9DED4E-1639-481D-B190-2B54A2BF5674
+------------+----------+------------+----------------------+
| MOID       | Name     | Datacenter | Import Status        |
+------------+----------+------------+----------------------+
| domain-c21 | Cluster1 | DC1        | partially_activated  |
+------------+----------+------------+----------------------+
```


5. Run cluster activate command.

```
# eon cluster-activate --vcenter-id <vCenter ID> --cluster-moid <Cluster
 Moid>
```

For example:

```
eon cluster-activate --vcenter-id BC9DED4E-1639-481D-B190-2B54A2BF5674 --
cluster-moid domain-c22
```

After successful activation the cluster state will change to activate state.

6. To know whether the cluster is activate or not, execute the following command:

```
# eon cluster-list --vcenter-id <vCenter ID>
```

For example:

```
# eon cluster-list --vcenter-id BC9DED4E-1639-481D-B190-2B54A2BF5674
+------------+----------+------------+----------------------+
| MOID       | Name     | Datacenter | Import Status        |
```

```
+------------+----------+-----------+--------------------+
| domain-c21 | Cluster1 | DC1       | activated          |
+------------+----------+-----------+--------------------+
```

7. Commit your cloud deploy configuration to the *local git repo*, as follows:

```
cd ~/helion/hos/ansible
git add -A
git commit -m "My config"
```

8. Run the following playbook

```
ansible-playbook -i hosts/verb_hosts guard-deployment.yml
ansible-playbook -i hosts/verb_hosts osconfig-run.yml --limit '*esx-
ovsvapp'
ansible-playbook -i hosts/verb_hosts hlm-deploy.yml --limit NEU-OVSVAPP
```

9. After successful deployment of the **hlm-deploy**, execute the following command from the deployer node.

```
# eon move-hosts –vcenter-id <vCenter ID> --host 100.10.0.50 –status
  SUCCESS
```

The host will be moved back to the original cluster as shown below: