Replacing gluster host in oVirt-Engine

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Why do we need this feature

The existing replace host was a series of manual steps that had to be followed in order, Especially stopping the ovirt-engine, preparing the new host, handling the volumes, bricks, etc.

To achieve the easy and smooth way or replacing of host through automation thus minimizing series of time consuming tasks
What is Replace Host

Same FQDN

Different FQDN

Reinstalled
In gluster ansible

Ref: - github.com/gluster/gluster-ansible

HOST PREPARATION

GLUSTER PEER MEMBERSHIP RESTORATION

LOGIC FOR REPLACING WITH SAME FQDN/IP

LOGIC FOR REPLACING HOST WITH DIFF FQDN/IP

Now Supported
Variables

---
- remote_user: root
  gather_facts: no
  hosts: server
  no_log: True
  vars:
    - gluster_maintenance_old_node: host1.example.com
    - gluster_maintenance_new_node: host1.example.com
    - gluster_maintenance_cluster_node: host2.example.com
    - gluster_maintenance_cluster_node_2: host2.example.com
  roles:
    - gluster.maintenance
What we are going to discuss

1. Authorization
2. Peer reconfiguration
3. Volume Reconfiguration
Replace host in ovirt-engine

1. Authorization

- Copying the ssh authorized keys to the to-be-replaced host
What we are going to discuss

1. Authorization
2. Peer reconfiguration
3. Volume Reconfiguration
Authorization

1. Authorization

- Copying the ssh authorized keys to the to be replaced host
Peer Reconfiguration

2. Peer Reconfiguration

- Peer Restoration for same FQDN
  - Copying old hosts peer to the new host. Thus adding the new host back to the cluster

- Peer Restoration for different FQDN
  - Peer probing the new host to host 1 and host 2, (we will later detach the old host, thus removing the old nodes peer)
Gluster peer in hosts

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**2. Peer Reconfiguration**

- Host A peer files
- Host B peer files
- Host C peer files
Volume Restoration

3. Volume Restoration

- Run replace-brick commit force of bricks for each volume, thus data will begin to heal, and the host will be successfully replaced and added back to the cluster.
Pre-task

4. Pre-task (for special case)

- Pre-task
  - When the front-end fqdn is different from the back-end fqdn.
1. Authorization

- Copying the ssh authorized keys to the to be replaced host
Demo Of Replace Host

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Thank you!

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