



Replacing gluster host in oVirt-Engine

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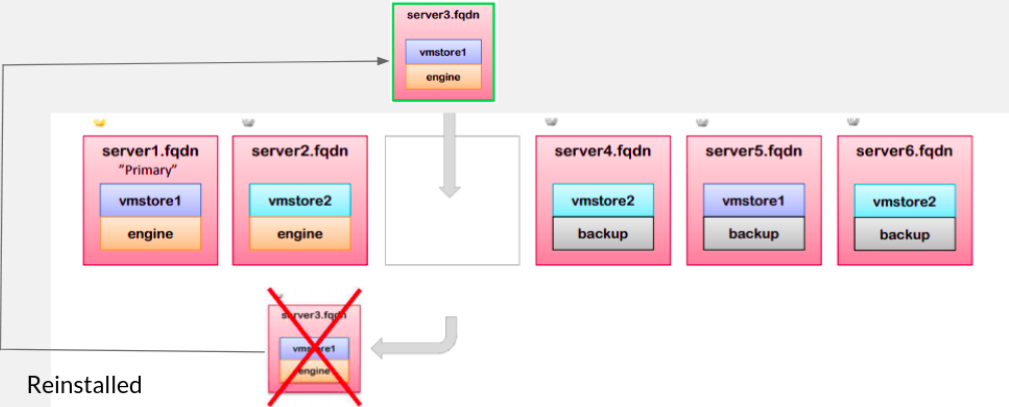
Why do we need this feature

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.

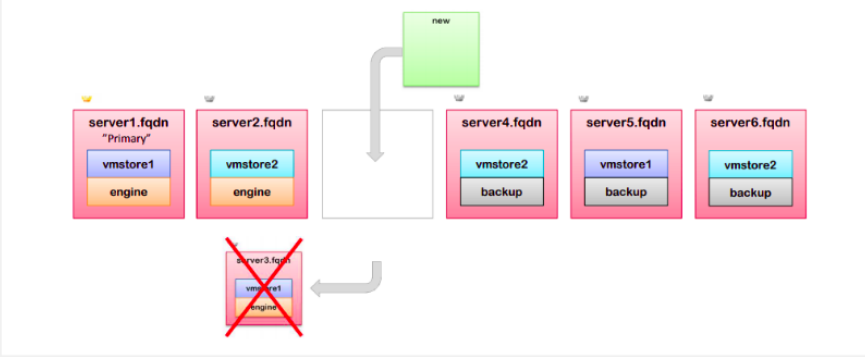
To achieve the easy and smooth way of replacing of host through automation thus minimizing series of time consuming tasks

What is Replace Host

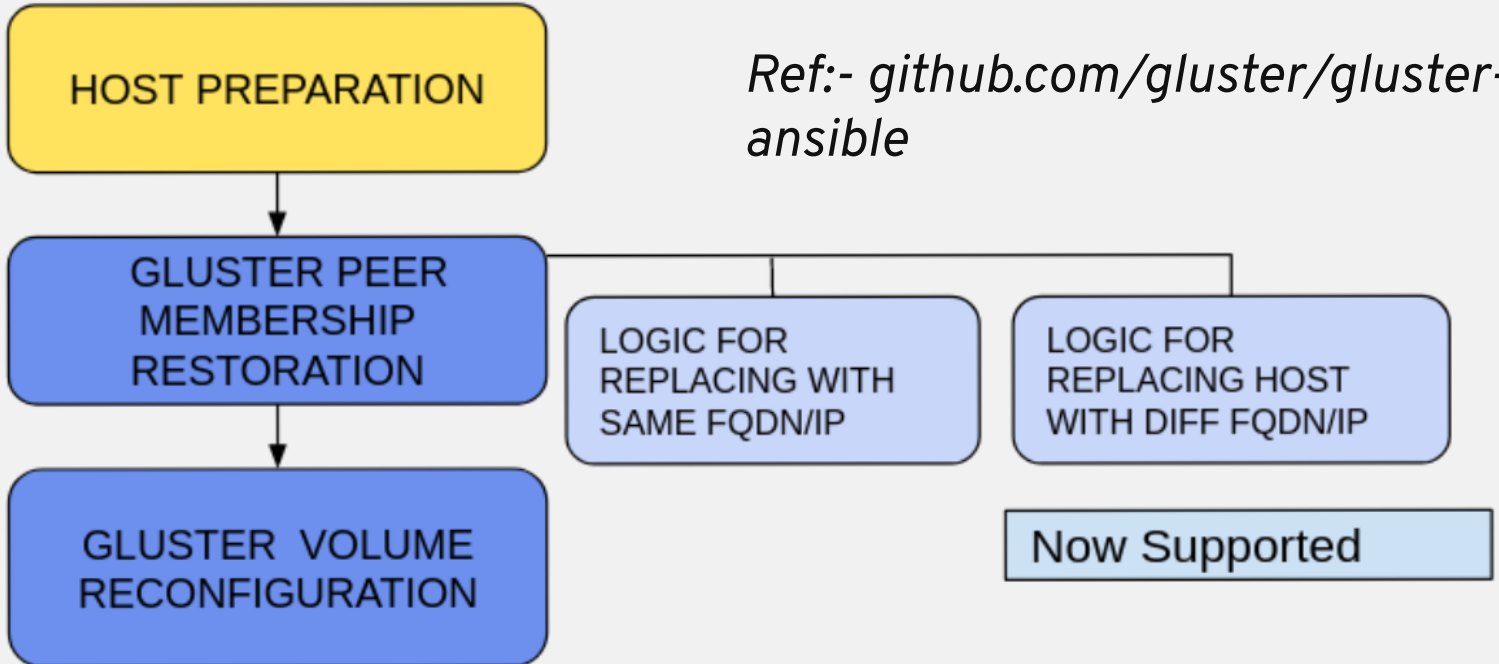
Same FQDN



Different FQDN



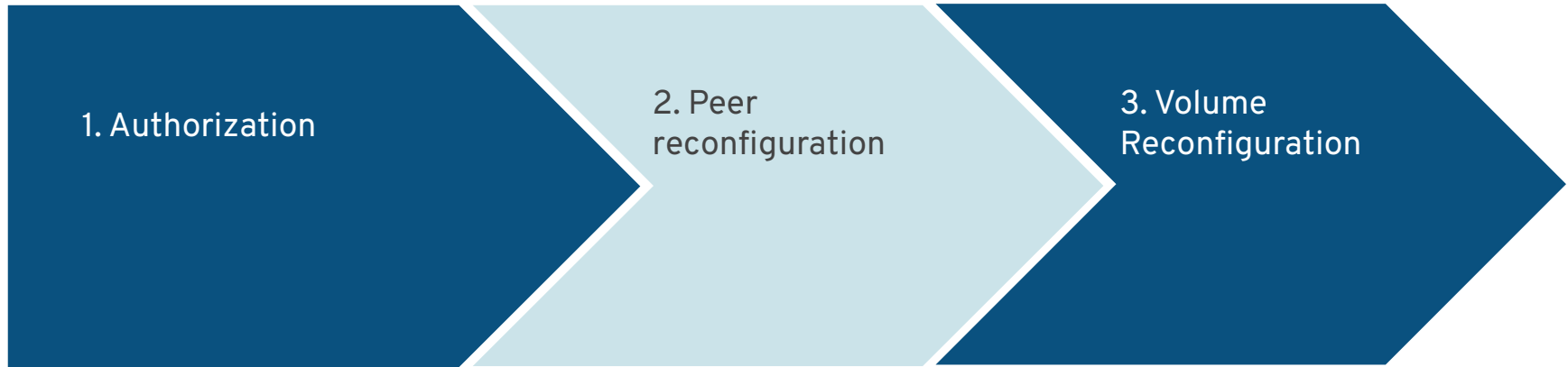
In gluster ansible



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



Replace host in ovirt-engine

Host: x ☆ v Q

New Edit Remove Management Installation Host Console

1 - 3 < >

	Name	Comment	Hostname/IP	Cluster	Data Center	Status	Virtual Machines	Memory	CPU	Network	SPM
	dhcp42-58.lab.eng.blr.red		dhcp42-58.lab.eng.blr.r...	Default	Default	Maintenance	0	0%	0%	0%	Normal
	dhcp42-66.lab.eng.blr.red		dhcp42-66.lab.eng.blr.r...	Default	Default	Up	0	29%	2%	0%	Normal
	dhcp43-67.lab.eng.blr.red		dhcp43...					29%	2%	0%	Normal

Install Host [X]

General

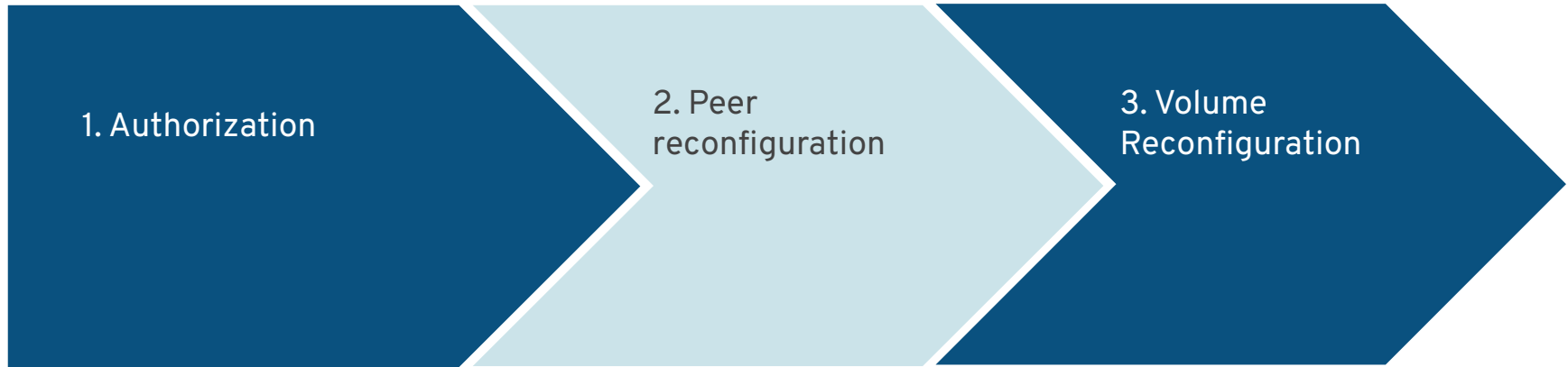
Choose type of replace host: SAMEFQDN

Hosted Engine

Replace Host >

OK Cancel

What we are going to discuss



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

```
[root@dhcp43-67 ~]# gluster peer status
Number of Peers: 2

Hostname: dhcp42-66.lab.eng.blr.redhat.com
Uuid: e6bda246-7d2b-4ae9-9b12-c4edfa4dab73
State: Peer in Cluster (Connected)

Hostname: dhcp42-58.lab.eng.blr.redhat.com
Uuid: e60c64d8-1244-4346-b7d6-10ec0366226d
State: Peer in Cluster (Connected)
[root@dhcp43-67 ~]#
```

Host A peer files

```
Number of Peers: 2

Hostname: dhcp43-67.lab.eng.blr.redhat.com
Uuid: a2bbf36b-7052-4c80-84b2-ff73b70346d1
State: Peer in Cluster (Connected)

Hostname: dhcp42-58.lab.eng.blr.redhat.com
Uuid: e60c64d8-1244-4346-b7d6-10ec0366226d
State: Peer in Cluster (Connected)
[root@dhcp42-66 ~]#
```

Host B peer files

```
Number of Peers: 2

Hostname: dhcp43-67.lab.eng.blr.redhat.com
Uuid: a2bbf36b-7052-4c80-84b2-ff73b70346d1
State: Peer in Cluster (Connected)

Hostname: dhcp42-66.lab.eng.blr.redhat.com
Uuid: e6bda246-7d2b-4ae9-9b12-c4edfa4dab73
State: Peer in Cluster (Connected)
[root@dhcp42-58 ~]#
```

Host C peer files

Volume Restoration

3. Volume Restoration

- 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.

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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oVirt

Thank you!

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