

Cluster Upgrade

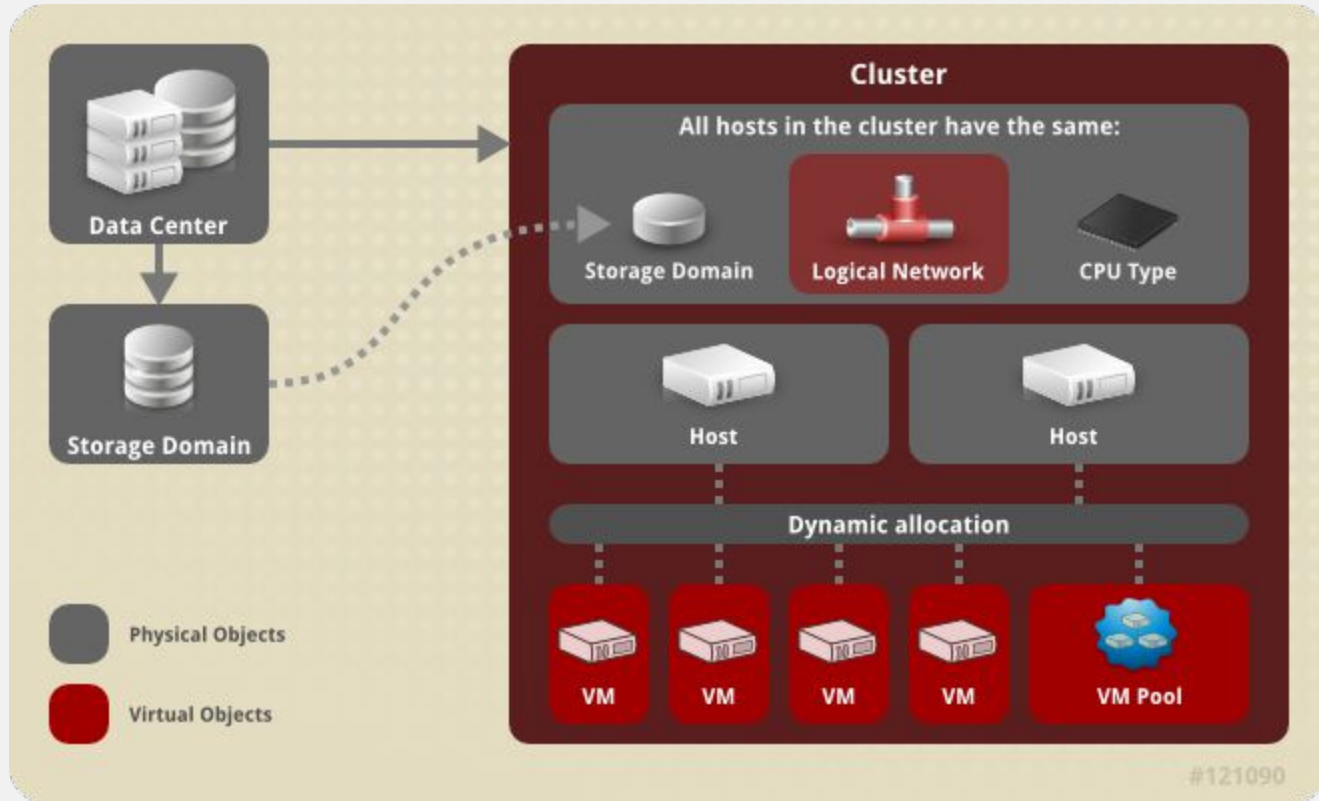
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Agenda

- ❖ Introduction
- ❖ Why cluster upgrade
- ❖ Prerequisite
- ❖ Cluster upgrade in UI

Introduction



Cntd...

1. Cluster consists of Hosts, Storage Domain & Logical network.
2. Host is also referred as Node, It is a minimal operating system based on CentOS that is designed to provide a simple method for setting up a physical machine to act as a hypervisor in an oVirt environment.
3. OS contains only the packages required for the machine to act as a hypervisor.

Why cluster upgrade

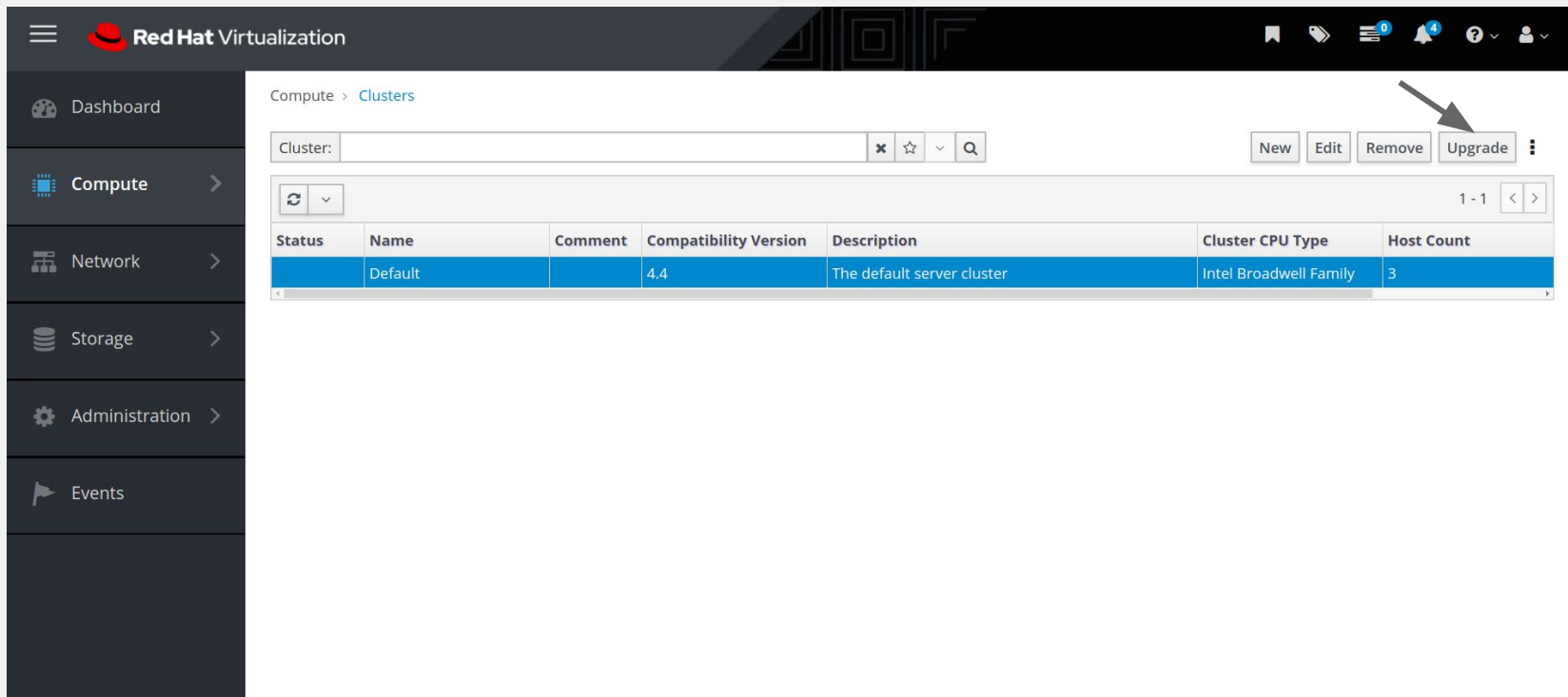
- ❖ The existing cluster upgrade was a series of manual steps that had to be followed in order
- ❖ Especially stopping the vm, starting the vm after upgrade, handling migration of vm, etc.
- ❖ To Ease the cluster upgrade feature is implemented with the help of UI.

Prerequisite

- ❖ Enable the latest repo's on the host
- ❖ Stopping geo-rep session if anything is in progress
- ❖ Check for brick quorum is met for the volume.
- ❖ Engine fqdn should not contain in host password.

Cluster Upgrade In UI

Navigate Compute → Cluster → Click Upgrade



The screenshot shows the Red Hat Virtualization management interface. The left sidebar contains navigation options: Dashboard, Compute, Network, Storage, Administration, and Events. The main content area is titled 'Compute > Clusters'. At the top right of this area are buttons for 'New', 'Edit', 'Remove', and 'Upgrade', with an arrow pointing to the 'Upgrade' button. Below the buttons is a search bar and a refresh icon. A table lists the clusters:

Status	Name	Comment	Compatibility Version	Description	Cluster CPU Type	Host Count
	Default		4.4	The default server cluster	Intel Broadwell Family	3

→ Mark the host for upgrade.

Upgrade Cluster Default

Select Hosts Upgrade Options Cluster Upgrade Review

1 2 3

i If a host has a down status, it can cause the cluster upgrade to fail.

<input checked="" type="checkbox"/>	Status	Name	Hostname/IP Address	Virtual Machines
<input checked="" type="checkbox"/>	🟢	tendr14.lab.eng.blr.redhat.com	tendr14.lab.eng.blr.redhat.com	1
<input checked="" type="checkbox"/>	🟢	tendr15.lab.eng.blr.redhat.com	tendr15.lab.eng.blr.redhat.com	0
<input checked="" type="checkbox"/>	🟢	tendr16.lab.eng.blr.redhat.com	tendr16.lab.eng.blr.redhat.com	1

Cancel < Back Next >

→ Select Different option to set before cluster upgrade starts.

Upgrade Cluster Default

Select Hosts Upgrade Options Cluster Upgrade Review

1 ————— 2 ————— 3

Stop Pinned VMs ⓘ Stop Virtual Machines pinned to Hosts

Upgrade Timeout (Minutes) ⓘ

Check Upgrade ⓘ Check for upgrades on all Hosts (If not, only upgrade Hosts with known upgrades)

Reboot After Upgrade ⓘ Reboot Hosts after upgrade

Use Maintenance Policy ⓘ Switch Cluster policy to Cluster Maintenance during upgrade

Cancel < Back Next >

→ Click on tooltip to get extra info on the option.

Upgrade Cluster Default

Select Hosts Upgrade Options Cluster Upgrade Review

1 2 3

Stop Pinned VMs If checked, run check_for_upgrade action on all hosts before executing upgrade on them. If unchecked, run upgrade only for hosts with available upgrades and ignore all other hosts.

Upgrade Timeout (Minutes)

Check Upgrade All Hosts (If not, only upgrade Hosts with known upgrades)

Reboot After Upgrade Reboot Hosts after upgrade


Use Maintenance Policy Switch Cluster policy to Cluster Maintenance during upgrade

Cancel < Back Next >

→ Confirmation for cluster upgrade

Upgrade Cluster Default ✕

Select Hosts 1 Upgrade Options 2 Cluster Upgrade Review 3



3 Hosts

Will be upgraded one at a time during Cluster upgrade

Thank You :)

Any Question:

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