

CI310 – Red Hat

OpenStack Administration III



CURRICULUM

» Introduction to Red Hat Ceph Storage

- Introduce Red Hat Ceph Storage architecture, components, and attributes.

» Deploy and access Red Hat Ceph Storage

- Create snapshots and clones for Red Hat Ceph Storage.

» Create snapshots and clones

- Manage snapshots and clones of a Ceph Block Device (RBD).

» Ceph with the Glance Image service

- Integrate Ceph with the OpenStack Glance Image service to store OpenStack images in Ceph.

» Ceph with the Cinder Block Storage service

- Integrate Ceph with the OpenStack Cinder Block Storage service to provide OpenStack volumes in Ceph.

» Ceph with the Nova compute service

- Integrate Ceph with the OpenStack Nova compute service to store instance data in Ceph.

» Introduce networking fundamentals

- Review networking concepts and deploy OpenStack with a separate Neutron networking node.

» Network interfaces

- Manage network interfaces manually (using the ip command) and persistently.

» Virtual network devices

- Create and deploy virtual network devices.

» Network namespaces

- Manage and implement networks inside a network namespace.

» Neutron services

- Verify and manage the Neutron services.

» Provisioning tenant networks

- Provision tenant networks using VXLAN tunnels, GRE tunnels, and VLANs.

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» Neutron networking services

- Diagnose and troubleshoot issues with the Neutron networking service.

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