

Red Hat Certified Specialist in Virtualization

Course Outline

1. Installation

- Install Red Hat Virtualization Manager (RHVM) and Red Hat Virtualization Hypervisor (RHVH).
- Install RHVM and any necessary dependencies.
- Configure RHVM to authenticate against an external IPA service.
- Install Red Hat Virtualization Hypervisor.

2. Datacenters and Clusters

- Add one or more RHVH instances to RHVM.
- Create and manage datacenters and clusters.

3. Storage Management

- Manage storage:
 - Configure NFS services.
 - Configure storage domains.
 - Import installation media into a storage domain.

4. Virtual Machine Management

- Create and manage virtual machines:
 - Install virtual machines.
 - Access virtual machine consoles with SPICE and VNC.
 - Start and stop virtual machines.
 - Edit virtual machine hardware characteristics.
 - Configure automatic migration for virtual machines.
- Work with virtual machine images:
 - Create snapshots.
 - Create virtual machines from snapshots.
 - Import existing virtual machine images into RHVM.

5. User Management

- Create and manage RHVM users:
 - Create internal users.
 - Create external users.
 - Configure roles and assign users to those roles.
 - Configure access using roles.

6. Virtual Machine Deployment

- Automatically deploy virtual machines:
 - Create virtual machine templates.
 - Deploy virtual machines using templates.
 - Configure virtual machines using cloud-init.

7. Networking Management

- Create and manage networking objects:
 - Create logical networks.
 - Assign hosts to logical networks.
 - Create MAC address pools.
 - Assign MAC address pools to clusters.

8. Cluster Policies

- Create and manage cluster policies:
 - Create scheduling and migration policies.
 - Assign policies to clusters.

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