

# Red Hat Certified Specialist in Virtualization

## Content

### 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.