



## **RH318 - Red Hat Virtualization**

- **Red Hat Virtualization overview**
  - Explain the purpose and architecture of Red Hat Virtualization.
- **Install and configure Red Hat Virtualization**
  - Install a minimal Red Hat Virtualization environment and use it to create a virtual machine.
- **Create and manage datacenters and clusters**
  - Organize hypervisors into groups using datacenters and clusters.
- **Manage user accounts and roles**
  - Configure user accounts using a central directory service, then use roles to assign access to resources based on job responsibilities.
- **Adding physical hosts**
  - Add additional Red Hat Virtualization hosts automatically, and move and remove hosts from datacenters as needed.
- **Scale Red Hat Virtualization infrastructure**
  - Add Red Hat Virtualization hosts automatically, configure Red Hat Enterprise Linux hosts when appropriate, and move and remove hosts from data centers as needed.
- **Manage Red Hat Virtualization networks**
  - Separate network traffic into multiple networks on one or more interfaces to improve the performance and security of Red Hat Virtualization.
- **Manage Red Hat Virtualization storage**
  - Create and manage data and ISO storage domains.
- **Deploy and manage virtual machines**
  - Operate virtual machines in the Red Hat Virtualization environment.
- **Migrate virtual machines**



- Migrate and control automatic migration of virtual machines.
- **Manage virtual machine images**
  - Manage virtual machine snapshots and disk images.
- **Automating virtual machine deployment**
  - Automate deployment of virtual machines by using templates and cloud-init.
- **Back up and upgrade Red Hat Virtualization**
  - Back up, restore, and upgrade the software in a Red Hat Virtualization environment.
- **Explore high-availability practices**
  - Explain procedures to improve the resilience and reliability of Red Hat Virtualization by removing single points of failure and implementing high-availability features.
- **Perform comprehensive review**
  - Demonstrate skills learned in this course by installing and configuring Red Hat Virtualization; using the platform to create and manage virtual machines; and backing up and updating components of Red Hat Virtualization.



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