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# RedHat Certified System Administrator in Red Hat OpenStack exam

## Study points for the course & exam

To become a Red Hat Certified System Administrator in Red Hat OpenStack, you will validate your ability to perform these tasks:

- **Understand and work with director-based deployments**
  - Use identity environment files to connect to the undercloud
  - Use identity environment files to connect to the overcloud
  - Use template files, environment files, and other resources to obtain information about an OpenStack environment
  - Work with containerized services
- **Configure OpenStack domains**
  - Create projects
  - Create groups
  - Create users
  - Manage quotas
- **Create resources**
  - Create virtual machine flavors
  - Add existing images to an overcloud
  - Create security groups
  - Create key pairs
- **Configure networking**
  - Create and assign networks to projects
  - Configure network routers
  - Configure software-defined networks
  - Work with Open Virtual Networks



# Red Hat

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- **Configure floating IP addresses**
  - Configure an instance to use a floating IP address
  - Configure a service to be accessible via a floating IP address
- **Manage block storage**
  - Create a block storage volume
  - Attach block storage volumes to an instance
  - Snapshot a storage volume
- **Work with Red Hat® Ceph Storage**
  - Configure Ceph storage
  - Monitor Ceph Storage
  - Diagnose and troubleshoot Ceph Storage issues
- **Work with object storage**
  - Create a Swift container
  - Utilize a Swift container
- **Work with shared storage**
  - Create shared file systems
  - Configure instances to use shared file systems
- **Manage instances**
  - Launch instances
  - Associate instances with specified projects and networks
  - Use key pairs to connect to instances
  - Configure an instance during deployment
- **Create a Heat stack**
  - Create a Heat template
  - Diagnose and correct a broken Heat template
  - Launch a Heat stack
- **Work with images**
  - Modify an existing image
  - Create and associate flavors to customized images
  - Launch an instance from a customized image
  - Launch an instance on a second compute node



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- **Work with OpenStack services**

- Manage Identity Service tokens
- Enable tracing in RabbitMQ
- Display statistics using Ceilometer
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As with all Red Hat performance-based exams, configurations must persist after reboot without intervention