

'Red Hat OpenStack Administration I,II'

Course Contents:

Admin I

- Introduce and review the course.
- Launch an instance
- Launch an instance and describe the OpenStack architecture and use cases.
- Organize people and resources
- Manage projects, users, roles, and quotas.
- Describe cloud computing
- Describe the changes in technology and processes for cloud computing
- Manage Linux networks
- Manage Linux networks and bridges.
- Prepare and deploy an internal instance
- Manage images, flavors, and private networks in preparation for launching an internal instance and launch and verify an internal instance.
- Manage block storage
- Manage ephemeral and persistent block storage.
- Manage object storage
- Manage object storage.
- Prepare and deploy an external instance
- Manage external networks and security in preparation for launching an external instance and launch and verify an external instance.
- Customize instances
- Customize an instance with cloud-init.
- Deploying scalable stacks
- Deploy a stack and configure autoscaling.
- Install OpenStack
- Install an OpenStack proof of concept using Packstack.
- Comprehensive review of Red Hat OpenStack Administration I

Admin II

- Manage an enterprise OpenStack deployment
- Manage the undercloud, the overcloud, and related services.
- Manage internal OpenStack communication
- Administer the Keystone identity service and the advanced message queuing protocol (AMQP) messaging service.
- Build and customize images
- Build and customize images.
- Manage storage
- Manage Ceph and Swift storage for OpenStack.
- Manage resilient compute resources
- Add compute nodes, manage shared storage, and perform live instance migration.
- Manage and troubleshoot
 - Manage and troubleshoot virtual network infrastructure.
- Manage resilient compute resources
- Add compute nodes, manage shared storage, and perform live instance migration.
- Troubleshoot OpenStack issues
 - Diagnose and troubleshoot OpenStack issues and services.
- Monitor cloud metrics for autoscaling
- Monitor and analyze cloud metrics for use in orchestration autoscaling.
- Orchestrate deployments
- Deploy Heat stacks that automatically scale.