Red Hat Certified Specialist in Ceph Cloud Storage

Z Zetlan Technologies

Online Course

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Course Modules

1. **Install Red Hat Ceph Storage server**
   - Install a containerized Red Hat Ceph Storage server
   - Red Hat Ansible Automation Platform installation

2. **Work with existing Red Hat Ceph Storage server appliances**
   - Be able to change a Red Hat Ceph Storage server config
   - Add monitor (MON) nodes & object storage device (OSD) nodes

3. **Configure Red Hat Ceph Storage server**
   - Configure a replicated storage pool
   - Store objects in storage pool
   - Store objects within a namespace within a storage pool
   - Create and configure erasure-coded pools
   - Create an erasure-coded pool profile with specified parameters
   - Upload a file to an erasure-coded pool
   - Change default settings in the Red Hat Ceph Storage config
   - Manage Red Hat Ceph Storage authentication
   - Create a Red Hat Ceph Storage client
   - Managing OSDs Using Ceph-volume
   - Configure placement group auto-scaling

4. Provide block storage with RBD

- Create a RADOS block device image
- Obtain information about a RADOS block device image
- Map a RADOS block device image on a server
- Use a RADOS block device image
- Create an RBD snapshot
- Create an RBD clone
- Configure RBD mirrors
- Deploy a RBD mirror agent
- Configure one-way RBD mirroring in image mode
- Check the status of the mirroring process
- Import and export RBD images
- Export a RADOS block device to an image file
- Create an incremental RBD image file

5. Provide object storage with RADOSGW

- Deploy a RADOS gateway
- Deploy a multisite RADOS gateway
- Provide object storage using the Amazon S3 API
- Be able to create a RADOSGW user that will use the S3 client
- Be able to upload and download objects to a RADOSGW
- Export S3 objects using NFS
- Provide object storage for Swift
- Create a RADOSGW user that will use the Swift interface
- Be able to upload or download objects to a RADOSGW

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6. Provide file storage with CephFS

- Create a Red Hat Ceph Storage file system
- Red Hat Ceph Strg file system on a client node persistently
- Configure CephFS quotas
- Create a CephFS snapshot

7. Configure a CRUSH map

- Create a bucket hierarchy in a CRUSH map
- Be able to remap a PG
- Be able to remap all PG's in a pool for an optimal redistribution

8. Manage and update cluster maps

- Manage MON and OSD maps
- Change OSD storage limits for monitor available space on OSD

9. Manage a Red Hat Ceph Storage cluster

- Determine the general status of a Red Hat Ceph Storage cluster
- Troubleshoot problems with OSDs and MONs

10. Tune Red Hat Ceph Storage

- Specify and tune key network tuning parameters
- Control and manage scrubbing and deep scrubbing
- Control and manage recovery and rebalancing processes
- Control and manage RAM utilization against I/O performance

11. Troubleshoot Red Hat Ceph Storage server problems

- Troubleshoot client issues
- Enable debugging mode on RADOS gateway
- Optimize RBD client access using key tuning parameters

12. Integrate Red Hat Ceph Storage with Red Hat OpenStack

- Integrate Red Hat Ceph Storage using both Glance and Cinder
- Key Glance configuration files to use Red Hat Ceph Storage
- Glance to use Red Hat Ceph Storage as a backend
- Modify key Cinder config files to use Red Hat Ceph Storage
- Configure Cinder to use Red Hat Ceph Storage RBDs