

Red Hat High Availability Clustering with exam

Course code: RH437

Design and deploy a high availability cluster Red Hat® High Availability Clustering with exam (RH437) provides intensive, hands-on experience with the Pacemaker component of the Red Hat Enterprise Linux High-Availability Add-On, as well as cluster storage components from the Resilient Storage Add-On, including Cluster Logical Volume Manager (CLVM), Red Hat Global File System 2 (GFS2), and Device-Mapper Multipath. This course is based on Red Hat Enterprise Linux 7.1 and includes the Red Hat Certified Specialist in High Availability Clustering exam (EX436).

Who is the course for

Senior Linux system administrators responsible for maximizing resiliency through high-availability clustering services and using fault-tolerant shared storage technologies

What we teach you

Created for senior Linux® system administrators, this 4-day course strongly emphasizes lab-based activities. You'll learn how to deploy and manage shared storage and server clusters that provide highly available network services to a mission-critical enterprise environment.

This course also helps you prepare for the Red Hat Certified Specialist in High Availability Clustering exam (EX436). This version of the course includes the exam.

Content summary

- Install and configure a Pacemaker-based high availability cluster
- Create and manage highly available services
- Troubleshoot common cluster issues
- Work with shared storage (iSCSI) and configure multipathing
- Configure GFS2 file systems

What is a Certified Specialist credential?

A Red Hat Certified Specialist is a specialized credential available to individuals who pass performance-based exams.

The credentials demonstrate skills and knowledge in specialized areas.

Required skills

If you want to take this course without the exam (RH436) and have not earned your RHCE® certification, you can confirm that you have the necessary knowledge by passing the online skills assessment.

Course outline

Clusters and storage

- Get an overview of storage and cluster technologies.

Create high-availability clusters.

- Review and create the architecture of Pacemaker-based high-availability clusters.

Nodes and quorum

- Review cluster node membership and how quorum is used to control clusters.

Fencing

- Understand fencing and fencing configuration.

Resource groups

- Create and configure simple resource groups to provide high-availability services to clients.

Troubleshoot high-availability clusters

- Identify and troubleshoot cluster problems.

Complex resource groups

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- Control complex resource groups by using constraints.

Two-node clusters

- Identify and work around two-node clusters issues.

ISCSI initiators

- Manage iSCSI initiators for access to shared storage.

Multipath Storage

- Configure redundant storage access.

Logical volume manager (LVM) clusters

- Manage clustered LVM.

Global File System 2

- Create symmetric shared file systems.

Eliminate single points of failure

- Eliminate single points of failure to increase service availability.

Comprehensive review

- Set up high-availability services and storage.

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