

# 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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