Red Hat High Availability Clustering (RH436)

Category: Networking & Security | **Vendor:** Red Hat

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Deploy reliable, available critical production services in a high availability cluster In the Red Hat High Availability Clustering (RH436) course, you will learn how to provide highly available network services to a mission-critical enterprise environment through the deployment and management of shared storage and server clusters. Created for senior Linux system administrators, this 4-day course strongly emphasizes lab-based activities. You will set up a cluster of systems running the Pacemaker component of the Red Hat Enterprise Linux High-Availability Add-On, and deploy Linux-based services such as web servers and databases on that cluster. Cluster storage components from the Resilient Storage Add-On are also covered; installations and applications that require multiple cluster nodes can access the same storage simultaneously. This includes Logical Volume Manager (LVM) Shared Volume Groups, Red Hat Global File System 2 (GFS2), and Device-Mapper Multipath. This course is based on Red Hat Enterprise Linux 8.3.

About This Course

Deploy reliable, available critical production services in a high availability cluster

In the Red Hat High Availability Clustering (RH436) course, you will learn how to provide highly available network services to a mission-critical enterprise environment through the deployment and management of shared storage and server clusters. Created for senior Linux system administrators, this 4-day course strongly emphasizes lab-based activities.

You will set up a cluster of systems running the Pacemaker component of the Red Hat Enterprise Linux High-Availability Add-On, and deploy Linux-based services such as web servers and databases on that cluster. Cluster storage components from the Resilient Storage Add-On are also covered; installations and applications that require multiple cluster nodes can access the same storage simultaneously. This includes Logical Volume Manager (LVM) Shared Volume Groups, Red Hat Global File System 2 (GFS2), and Device-Mapper Multipath.

This course is based on Red Hat Enterprise Linux 8.3.

Who Should Attend

Senior Linux system administrators who use high-availability clustering and fault-tolerant shared storage technologies to maximize resiliency of production services.

Prerequisites & Entry Requirements

General Prerequisites:

- Red Hat Certified System Administrator (RHCSA) exam (EX200) and associated courses.
- Red Hat Cerfitied Engineer (RHCE) exam (EX294) and associated courses.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

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. Implement Logical Volume Manager (LVM) in cluster-aware configurations. Configure GFS2 file systems on storage shared by multiple nodes.

Detailed Course Outline

1 - Creating high availability clusters

- Create a basic high availability cluster.

2 - Managing cluster nodes and quorum

- Manage node membership in the cluster and describe how it impacts cluster operation.

3 - Isolating malfunctioning cluster nodes

- Isolate unresponsive cluster nodes to protect data and recover services and resources after a failure.

4 - Creating and configuring resources

- Create basic resources and resource groups to provide highly available services.

5 - Troubleshooting high availability clusters

- Identify, diagnose, and fix cluster issues.

6 - Automating cluster and resource deployment

- Deploy a new high availability cluster and cluster resources using Ansible automation.

7 - Managing two-node clusters

- Operate two-node clusters while identifying and avoiding issues specific to a two-node cluster configuration.

8 - Accessing iSCSI storage

- Configure iSCSI initiators on your servers to access block-based storage devices provided by network storage arrays or Ceph storage clusters.

9 - Accessing storage devices resiliently

- Configure resilient access to storage devices that have multiple access paths.

10 - Configuring LVM in clusters

- Select, configure, and manage the correct LVM configuration for use in your cluster.

11 - Providing storage with the GFS2 cluster file system

- Use the GFS2 cluster file system to simultaneously pProvide tightly coupled shared storage that can be accessed by multiple nodes.

12 - Eliminating single points of failure

- Identify and eliminate single points of failure in your cluster to decrease risk and increase average service availability.

- Note: Course outline is subject to change with technology advances and as the nature of the underlying job evolves. For questions or confirmation on a specific objective or topic, please contact a training specialist.

Additional Course Details

Nexus Humans Red Hat High Availability Clustering (RH436) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Red Hat High Availability Clustering (RH436) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Red Hat High Availability Clustering (RH436)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 5-day Red Hat High Availability Clustering (RH436) course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Red Hat High Availability Clustering (RH436) training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Red Hat High Availability Clustering (RH436)?

Yes, we provide corporate training, dedicated training, and closed classes for Red Hat High Availability Clustering (RH436). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Red Hat High Availability Clustering (RH436)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Red Hat High Availability Clustering (RH436) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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