RH436 - Red Hat High Availability Clustering

LENGTH
4 days

PRICE (Incl. GST)
$5236

RED HAT AT LUMIFY WORK

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WHY STUDY THIS COURSE

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 emphasises 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.

WHAT YOU'LL LEARN

As a result of attending this course, you will be able to create, manage, and troubleshoot highly available network services and tightly-coupled cluster storage for business-critical applications.

Students should be able to demonstrate the following skills:

> Improve application uptime by using high availability clustering.

> Manage storage in an high availability environment using iSCSI initiators, HA-LVM or LVM Shared Volume Groups as appropriate, and GFS2 cluster file systems.

https://www.lumifywork.com/en-au/courses/rh436-red-hat-enterprise-clustering-and-storage-management/

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> Implement strategies to identify and eliminate single points of failure in high availability clusters.

"

My instructor was great being able to put scenarios into real world instances that related to my specific situation.

I was made to feel welcome from the moment I arrived and the ability to sit as a group outside the classroom to discuss our situations and our goals was extremely valuable.

I learnt a lot and felt it was important that my goals by attending this course were met.

Great job Lumify Work team.

AMANDA NICOL
IT SUPPORT SERVICES MANAGER – HEALTH WORLD LIMITED

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Lumify Work Customised Training

We can also deliver and customise this training course for larger groups saving your organisation time, money and resources.

For more information, please contact us on 1 800 853 276.

COURSE SUBJECTS

Creating high availability clusters
Create a basic high availability cluster.

Managing cluster nodes and quorum
Manage node membership in the cluster and describe how it impacts cluster operation.

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

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

Troubleshooting high availability clusters
Identify, diagnose, and fix cluster issues.

Automating cluster and resource deployment
Deploy a new high availability cluster and cluster resources using Ansible automation.

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

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

Accessing storage devices resiliently
Configure resilient access to storage devices that have multiple access paths.

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

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.

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

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WHO IS THE COURSE FOR?

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

PREREQUISITES

- Take a free assessment to gauge whether this offering is the best fit for your skills.

- Red Hat Certified System Administrator (RHCSA) exam (EX200) and associated courses.

- Red Hat Cerfitied Engineer (RHCE) exam (EX294) and associated courses.

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