

# RH436 - Red Hat High Availability Clustering

LENGTH

**4 days**

PRICE (Excl. GST)

**NZD 5120**

## RED HAT AT LUMIFY WORK

Red Hat is the leading provider of open source, enterprise IT solutions. Lumify Work is proud to offer clients the ability to attend over 40 official Red Hat training courses through a resell agreement with Red Hat. Maximise the return on your Red Hat technology investment with lab-intensive, Instructor-Led Training run by Red Hat themselves. Alternatively, for those unable to attend training, log in and learn with Red Hat Online Learning.



# Red Hat

## 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-nz/courses/rh436-red-hat-enterprise-clustering-and-storage-management/>

# RH436 - Red Hat High Availability Clustering

- › 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**

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



# RH436 - Red Hat High Availability Clustering

## 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 provide tightly coupled shared storage that can be accessed by multiple nodes.

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

## 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 [0800 835 835](tel:0800835835).

IT INFRASTRUCTURE AND NETWORKS

# RH436 - Red Hat High Availability Clustering

## **Eliminating single points of failure**

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

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

# RH436 - Red Hat High Availability Clustering

## 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 Certified Engineer (RHCE) exam (EX294) and associated courses.

The supply of this course by Lumify Work is governed by the booking terms and conditions. Please read the terms and conditions carefully before enrolling in this course, as enrolment in the course is conditional on acceptance of these terms and conditions.

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