
Veritas InfoScale Availability 7.0 for Linux: Administration

Duration: 5 Days Course Code: HA0412

Overview:

The Veritas InfoScale Availability 7.0 for Linux: Administration course is designed for the IT professional tasked with installing, configuring, and maintaining Veritas Cluster Server (VCS) clusters.

This five day, instructor-led, hands-on class covers how to use InfoScale Availability to manage applications in a high availability environment. After gaining the fundamental skills that are needed to manage a highly available application in a cluster, you can deploy InfoScale Availability in a lab environment to implement a sample cluster design.

Target Audience:

This course is for Linux system administrators, system engineers, technical support personnel, network/SAN administrators, and systems integration/development staff, who will be installing, operating, or integrating InfoScale Availability.

Objectives:

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| <ul style="list-style-type: none">■ By the completion of this course, you will be able to:■ Describe how clustering is used to implement high availability in the data center environment.■ Describe VCS and cluster communication mechanisms.■ Create a cluster, and configure service groups and resources.■ Implement and verify failover and failback capability. for application, storage, and network services.■ Configure and optimize cluster behavior. | <ul style="list-style-type: none">■ Protect data in a shared storage environment.■ Describe I/O fencing operations, and its implementation.■ Configure VCS to manage an Oracle database and other applications.■ Configure a global cluster environment, including remote clusters, global heartbeats, and global service groups.■ Configure notification and failover behavior in a global cluster. |
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Prerequisites:

Knowledge of and hands-on experience with Linux systems administration

Content:

Cluster Server Basics

High Availability Concepts

- High availability concepts
- Clustering concepts
- High availability application services
- Clustering prerequisites

VCS Building Blocks

- VCS terminology
- Cluster communication
- VCS architecture

VCS Operations

- Common VCS tools and operations
- Service group operations
- Resource operations

VCS Configuration Methods

- Starting and stopping VCS
- Overview of configuration methods
- Online configuration
- Controlling access to VCS

Preparing Services for VCS

- Preparing applications for VCS
- Performing one-time configuration tasks
- Testing the application service
- Stopping and migrating an application service
- Collecting configuration information

Online Configuration

- Online service group configuration
- Adding resources
- Solving common configuration errors

Testing the service group

Offline Configuration

- Offline configuration examples
- Offline configuration procedures
- Solving offline configuration problems
- Testing the service group

Configuring Notification

- Notification overview
- Configuring notification
- Overview of triggers

Cluster Server Additions

- Handling Resource Faults
- VCS response to resource faults
- Determining failover duration
- Controlling fault behavior
- Recovering from resource faults
- Fault notification and event handling

Intelligent Monitoring Framework

- IMF overview
- IMF configuration
- Faults and failover with intelligent monitoring

Cluster Communications

- VCS communications review
- Cluster interconnect configuration
- Joining the cluster membership
- Changing the interconnect configuration

Cluster Server Applications

- Using I/O Fencing for Application Data Integrity
- Data protection requirements
- I/O fencing concepts
- I/O fencing operations
- I/O fencing implementation
- Fencing configuration

Clustering Applications

- Application service overview
- VCS agents for managing applications
- The Application agent
- IMF support and prevention of concurrency violation
- Clustering Databases
- VCS database agents
- Database preparation
- The database agent for Oracle
- Database failover behavior
- Additional Oracle agent functions

Global Clustering

- Global Cluster Architecture and Concepts
- Global cluster architecture
- Global cluster components
- VCS features for global cluster management
- Intercluster communication failure

Configuring a Global Cluster

- Linking clusters
- Configuring global cluster heartbeats
- Configuring a global service group
- Managing dynamic IP address updates

Managing a Global Cluster

- Managing clusters in a global cluster environment
- Managing global cluster heartbeats
- Managing global service groups
- Using VIOM for disaster recovery

Notification and Failover Behavior in a Global Cluster

- Notification in a global cluster
- Failover behavior of a global service group
- Cluster state transitions
- Simulating global clusters using the VCS Simulator

Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

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