

## COURSE DESCRIPTION

# Veritas InfoScale Availability 7.3 for UNIX/Linux: Administration

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The *Veritas InfoScale Availability 7.3 for Unix/Linux: Administration* course is designed for the IT professional tasked with installing, configuring, and maintaining Veritas Cluster Server (VCS) clusters.

This class discusses how to use InfoScale Availability to manage applications in a high availability environment. After gaining the necessary fundamental skills that are required to manage a highly available application in a cluster, the course enables you to deploy InfoScale Availability in the lab environment to practically implement a sample cluster design and deployment.

### Delivery Methods

This course is available in the following delivery methods:

- [Instructor-led training \(ILT\)](#)
- [Virtual instructor-led training \(VILT\)](#)

### Duration

- Instructor-led training (ILT): 5 days
- Virtual instructor-led training (VILT): 5 days

### Course Objectives

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 fallback capability for application, storage, and network services.
- Configure and optimize cluster behavior.
- 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 and manage VCS clusters on virtual machines in VMware environment.
- Implement Just in Time Availability for single node VCS cluster on virtual machine in a VMware environment.

### Who should attend

This course is for UNIX/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.

### Prerequisites

Knowledge of and hands-on experience with UNIX/Linux systems administration is required.

## Hands-On

This course includes practical lab exercises that enable you to test your new skills and begin to transfer those skills into your working environment.

## COURSE OUTLINE

### 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

## **In-Guest Clustering**

### **VMware vSphere Data Center Architecture**

- VMware vSphere high availability architecture
- VMware administration

- VMware storage architecture
- Server and storage migration

### **Veritas High Availability Deployment in VMware**

- Veritas high availability architecture in VMware
- Deploying Veritas InfoScale on VMs
- Configuring VIOM to manage InfoScale on VMs
- Configuring the vSphere Web Client for Veritas HA

### **Veritas High Availability Configuration and Administration**

- Configuring storage for VCS failover clusters
- Configuring shared storage for CFS clusters
- Configuring availability
- Just In Time Availability solution