
Veritas Cluster Server 6.0 for UNIX: Administration

Duration: 5 Days Course Code: HA0434

Overview:

The Veritas Cluster Server 6.0 for UNIX: Administration course is designed for the IT professional tasked with installing, configuring, and maintaining VCS clusters. This five-day, instructor-led, hands-on class covers how to use Veritas Cluster Server 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 deploy VCS in a lab environment to implement a sample cluster design. This course includes practical, hands-on lab exercises that enable you to test your new skills and begin to transfer them into your working environment.

Target Audience:

This course is for system administrators, system engineers, network administrators, system integration or development staff, and technical support personnel who will be working with Veritas Cluster Server.

Objectives:

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| <ul style="list-style-type: none">■ By the end of this course, you will be able to:■ Install VCS and create a cluster.■ 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.■ Configure VCS to manage an Oracle database, an NFS share, and other applications.■ Implement four-node clusters.■ Configure service group dependencies and workload management.■ Implement alternative network configurations. |
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Prerequisites:

You must have experience as a system or network administrator working in a UNIX environment, and basic knowledge of UNIX system administration.

Content:

Part 1: Veritas Cluster Server 6.0 for UNIX: Install and Configure (three-day course)

High Availability Concepts

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

VCS Building Blocks

- VCS terminology
- Cluster communication
- VCS architecture

Preparing a Site for VCS Implementation

- Hardware requirements and recommendations
- Software requirements and recommendations
- Preparing installation information
- Preparing to upgrade

Installing VCS

- Using the Common Product Installer
- VCS configuration files
- Viewing the default VCS configuration
- Veritas Operations Manager
- Other installation considerations
- Upgrading to 6.0

VCS Operations

- Common VCS tools and operations
- Service group operations
- Resource operations
- Using the VCS Simulator

VCS Configuration Methods

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

Preparing Services for High Availability

- 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 procedure
- Adding resources

Offline Configuration

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

Configuring Notification

- Notification overview
- Configuring notification
- Using triggers for notification

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 membership
- Cluster interconnect configuration
- Joining the cluster membership
- Changing the interconnect configuration

Data Protection Using SCSI 3-Based Fencing

- Data protection requirements
- I/O fencing concepts and components
- I/O fencing operations
- I/O fencing implementation
- Configuring I/O fencing

Coordination Point Server

- Coordination point concepts
- Installing and configuration CP servers
- Configuring client clusters
- CPS administration
- Coordination point agent

Part 2: Veritas Cluster Server 6.0 for UNIX: Manage and Administer (two-day course)

Veritas Cluster Server: Example Application

Clustering Applications

- Application service overview
- VCS agents for managing applications
- The Application agent

Clustering Databases

- VCS database agents
- Database preparation
- The database agent for Oracle
- Database failover behavior
- Additional Oracle agent functions

Clustering NFS

- Preparing NFS for high availability
- Testing the NFS service
- Configuring NFS resources
- NFS lock failover
- Alternative NFS configurations

Veritas Cluster Server for UNIX: Cluster

Service Group Dependencies

- Common application relationships
- Service group dependencies
- Service group dependency examples
- Configuring service group dependencies
- Alternative methods of controlling interactions

Reconfiguring Cluster Membership

- Adding a new system to a running VCS cluster
- Merging two running VCS clusters
- Additional reconfiguring tasks

Startup and Failover Policies

- Startup rules and policies
- Failover rules and policies
- Limits and prerequisites
- Modeling startup and failover policies

Alternate Network Configurations

- Alternative network configurations
- Multiple interface configurations

High Availability in the Enterprise

- Veritas Operations Manager
- Disaster recovery enhancements
- Virtualization support

- Solving common configuration errors
 - Testing the service group
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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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