Veritas Cluster Server 6.0 for Windows: Administration

Duration: 5 Days   Course Code: HA0435

Overview:

The Veritas Cluster Server 6.0 for Windows: Administration course is designed for the IT professional responsible for installing, configuring, and maintaining VCS clusters. This class covers how to use Veritas Cluster Server (VCS) 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.

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:

- Manage highly available application services using VCS.

- 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.

- Protect data in a shared storage environment.

- Configure VCS to manage SQL Server, Exchange Server, and other applications.

- Analyze, troubleshoot, and correct cluster problems.

- Configure service group dependencies and policies

Prerequisites:

- You must have experience as a system and network administrator working in a Windows environment.
- Experience in developing Perl scripts is helpful.

Content:

Part I - Install and Configure

High Availability and Clustering Concepts

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

VCS Building Blocks

- VCS terminology
- Cluster communication
- VCS architecture

Preparing a Site for VCS

- Hardware requirements and recommendations
- Software requirements and recommendations
- Licensing scheme
- Preparing installation information

Installing VCS

- Upgrading VCS
- Configuring VCS
- Viewing the default VCS configuration
- Installing the Cluster Manager Java GUI

VCS Operations

- Common VCS tools and operations
- Service group operations
- Resource operations
- Using a VCS simulator

VCS Configuration Methods

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

Preparing Services for VCS

- Performing one-time configuration tasks
- Testing the application service
- Stopping and migrating an application service

Online Configuration

- Online Service Group configuration
- Adding resources
- Solving common configuration errors
- Testing the Service Group

Offline Configuration

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

Configuring Notification

- Introducing the notification resource
- Configuring notification
- Using triggers for notification

Handling Resource Faults

- Introducing intelligent resource monitoring
- VCS response to resource faults
- Determining failover duration
- Controlling fault behavior
- Recovering from resource faults
- Fault notification and event handling

Cluster Communications

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

System and Communication Faults

- System failuresCluster interconnect failures

Monitoring and Troubleshooting

- Monitoring VCS
- Troubleshooting guide
- Archiving VCS-related files

Part II - Manage and Administer

Example Application Configurations

Clustering Applications

- Application service overview
- VCS Agents for managing applications
- The GenericService Agent
- The ServiceMonitor Agent

Clustering File Shares

- Preparing file shares for high availability
- VCS resources for managing file shares
- Configuring file shares`

Clustering SQL Server

- SQL Server in the VCS environment
- VCS Agents for SQL Server 2005
- VCS Agents for SQL Server 2008
- Managing registry keys
- Installing SQL Server in the cluster
- Configuring a SQL Server service group
- Monitoring databases

Clustering Exchange Server

- Exchange Server in the VCS environment
- Introducing the VCS Application Agent for Exchange Server 2007
- Introducing the VCS Database Agent for Exchange Server 2010
- Supported Exchange Server configurations for high availability
- Configuring the domain controller
- Installing Exchange Server
- Configuring an Exchange service group

Clustering SharePoint Server (Optional)

- SharePoint Server in the VCS environment
- Installing SharePoint Server 2010 in a SFW HA 6.0

cluster environment

- Configuring SharePoint Server service groups
- Verifying the SharePoint cluster configuration

Cluster Management

Service Group Dependencies

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

Startup and Failover Policies

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

Managing Data Centers

- Need for managing data centers

- Veritas Operations Manager: Overview
- Preparing a setup for Veritas Operations Manager
- Installing Veritas Operations Manager
- Using Veritas Operations Manager

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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