Symantec High Availability Fundamentals with Storage Foundation 6.x and Cluster Server 6.x for Unix

Duration: 5 Days   Course Code: HA0419

Overview:

The Symantec High Availability Fundamentals course is designed for the IT professional who wants an overview of the Symantec Storage Foundation and Symantec Cluster Server products.
This five-day, instructor-led, hands-on class is a condensed version of the four day Symantec Storage Foundation 6.x for UNIX: Administration Fundamentals course and the five day Symantec Cluster Server 6.x for UNIX: Administration Fundamentals course. It covers a subset of the topics in those two courses

Target Audience:

This course is for UNIX system administrators, system engineers, technical support personnel, network/SAN administrators, and systems integration/development staff who want an overview of the Symantec Storage Foundation and Symantec Cluster Server products.

Objectives:

- **By the completion of this course, you will be able to:**

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- Install and configure Symantec Storage Foundation High Availability.

- Configure and manage disks, disk groups, and volumes.

- Administer file systems.

- Create a VCS cluster.

- Configure service groups and resources.

- Implement and verify failover and failback capability for application, storage, and network services

Prerequisites:

Knowledge of UNIX system administration.

Content:

PART 1: Symantec Storage Foundation 6.x for UNIX: Administration Fundamentals

Virtual Objects

Operating system storage devices and virtual data storage

- Volume Manager storage objects
- VxVM volume layouts and RAID levels

Installing Storage Foundation and Accessing SF Interfaces

Preparing to install Storage Foundation

- Installing Storage Foundation
- Storage Foundation resources
- Storage Foundation user interfaces

Creating a Volume and File System

Preparing disks and disk groups for volume creation

- Creating a volume and adding a file system
- Sisplaying disk and disk group information
- Displaying volume configuration information
- Removing volumes, disks, and disk groups

Working with Volumes with Different Layouts

Volume layouts

- Creating volumes with various layouts
- Allocating storage for volumes

Making Configuration Changes

Administering mirrored volumes

- Resizing a volume and a file system
- Moving data between systems
- Renaming VxVM objects

Administering File Systems

- Benefits of using Veritas File System
- Using Veritas File System commands
- Logging in VxFS
- Controlling file system fragmentation
- Using thin provisioning disk arrays

Managing Devices within the VxVM Architecture

- Managing components in the VxVM architecture
- Discovering disk devices
- Managing multiple paths to disk devices

PART 2: Symantec Cluster Server 6.x for UNIX: Administration Fundamentals

High Availability Concepts

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

VCS Building Blocks

VCS terminology

- Cluster communication
- VCS architecture

Preparing a Site for VCS

Hardware and software requirements

- Hardware and software recommendations
- Preparing installation information

Installing VCS

Using the Common Product Installer

- VCS configuration files
- Cluster management tools

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

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

Cluster Communications

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

Protecting Data Using SCSI 3-Based Fencing

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

Further Information:

For More information, or to book your course, please call us on 00 966 92000 9278

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