Veritas Storage Foundation Cluster File System High Availability 6.0.1 for Linux: Administration

COURSE DESCRIPTION

The *Veritas Storage Foundation Cluster File System High Availability 6.0.1 for Linux: Administration* course provides instructions on how to install, configure, verify, and troubleshoot Veritas Storage Foundation Cluster File System High Availability configurations. You will learn how the core component products of SFCFSHA, such as Veritas Cluster Volume Manager, Veritas Cluster File System, and Veritas Cluster Server, are combined to manage volumes and file systems in a shared configuration.

Delivery Method
Instructor-led

Duration
Three days

Course Objectives
By the completion of this course, you will be able to:

- Install Veritas Storage Foundation Cluster File System High Availability.
- Configure a CFS cluster according to a specified sample design.
- Configure shared disk groups and volumes.
- Configure shared file systems.
- Describe how Group Lock Manager ensures file system coherency.
- Manage shared resources with Veritas Cluster Server (VCS)
- Place application instances under VCS control.
- Configure I/O fencing for data protection.
- Create and use point-in-time copies.
- Cluster NFS shares
- Troubleshoot common cluster failures.

Who Should Attend
This course is for customers, support engineers, consultants, and partners who need to maintain and troubleshoot Veritas Storage Foundation Cluster File System.
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Prerequisites
Participants must have experience administering Red Hat Linux systems. Participants must also have experience with Storage Foundation and Veritas Cluster Server, equivalent to the administration courses on the following products:

- Veritas Storage Foundation 6.0 for UNIX: Administration
- Veritas Cluster Server 6.0 for UNIX: Administration

Hands-On
This course includes practical hands-on exercises that enable you to test your new skills and begin to use those skills in a working environment.

COURSE OUTLINE

The Need for SFCFSHA

- Storage trends and key IT issues
- Storage architecture
- SFCFSHA overview

Installing and Configuring SFCFSHA

- SFCFSHA editions and licensing methods
- Preparing to install SFCFSHA
- Installing and configuring SFCFSHA
- Upgrading to SFCFSHA 6.0.1
- Verifying SFCFSHA configuration
- Administrative interfaces

SFCFSHA Architecture

- Characteristics of shared data clusters
- SFCFSHA architectural overview
- Applications for SFCFSHA

Cluster Volume Manager

- VxVM and CVM overview
- CVM concepts
- Configuration changes and recovery in a CVM cluster
- Administering CVM

Cluster File System

- Cluster file system concepts
- Data flow in CFS
- Group Lock Manager
- Administering CFS

High Availability in SFCFSHA

- Role of VCS in an SFCFSHA cluster
- Placing shared resources under VCS control
- Configuring shared resources
- Managing an SFCFSHA cluster using VCS

I/O fencing

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

Point-in-time Copies in SFCFSHA

- Reviewing the point-in-time copy solutions provided by SF
- Using the point-in-time copy solutions in an SFCFSHA environment

Clustered NFS

- Overview of file serving solutions
- CNFS Concepts
- VCS components for CNFS
- Configuring clustered NFS shares

Troubleshooting

- SFCFSHA cluster startup and shutdown
- Troubleshooting SFCFSHA installation and upgrade
- Troubleshooting SFCFSHA clusters
- Troubleshooting I/O fencing
- Collecting diagnostic information

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