



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

Duration: 3 Days **Course Code: HA0426**

Overview:

In the Veritas Storage Foundation 6.0.1 for Oracle RAC: Administration course, you learn to implement and maintain a Veritas Storage Foundation for Oracle Real Application Cluster (SFRAC) environment. You learn the basic features of SFRAC, including a detailed description of the components and core architecture of SFRAC. In this course, you also perform hands-on labs to learn how to install, configure, administer, and troubleshoot SFRAC.

Target Audience:

This course is for database administrators, system engineers, help-desk personnel, and system integration staff who will be installing, operating, or administering Veritas Storage Foundation for Oracle RAC.

Objectives:

- **At the end of this course, you will be able to:**
 - Describe cluster concepts and the SFRAC architecture.
 - Install and configure SFRAC.
 - Describe basic Oracle transactions and recovery principles.
 - Configure resources to manage storage, networks, and databases.
 - Perform administrative operations in SFRAC.
 - Configure I/O fencing.
 - Troubleshoot common operational issues in SFRAC.
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Prerequisites:

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Content:

Introduction

- Course overview
- The classroom lab environment
- Install and Configure (Three-day course)

Storage Foundation and High Availability Concepts

- Veritas Storage Foundation and High Availability solutions
- VCS terminology
- Cluster communication
- VCS architecture
- SFCFSHA and SFRAC overview

SFRAC Architecture

- SFRAC basics
- Communication infrastructure and processes
- I/O fencing
- Shared storage management
- VCS architecture
- Extensions for Oracle Clusterware or RAC

Installing SFRAC

- Preparing to install SFRAC
- Installing and configuring SFRAC
- Viewing the SFRAC configuration
- Administrative interfaces

Configuring CVM and CFS

- Cluster Volume Manager
- CVM configuration
- CVM startup and recovery
- Cluster File System

CFS configuration

- CFS recovery
- Coordinating CVM and CFS configuration

Oracle Database Concepts

- Database concepts
- Oracle operations
- Oracle in a Storage Foundation HA environment

Oracle RAC Concepts

- Oracle RAC concepts and terminology
- Oracle operations
- Oracle RAC infrastructure requirements

VCS in an Oracle RAC environment

- Resources for managing clusterware components
- Oracle RAC service groups
- VCS configuration review

Installing Oracle Clusterware and RAC

- Oracle clusterware overview
- Determining Oracle file locations
- Installation overview
- Preparing the environment
- Installing Oracle Clusterware and RAC
- Post-installation tasks

Managing Oracle Using VCS

- Creating and testing an Oracle database
- Configuring an Oracle resource
- Other Oracle monitoring options

Disk-based I/O Fencing

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

Manage and Administer (Two-day course)

- Monitoring the Cluster
- Verifying SFRAC
- Performing health checks and risk assessment
- Monitoring Oracle components
- Using log files

Troubleshooting Shutdown

- Automatic cluster shutdown
- Manual cluster shutdown
- Cluster shutdown problems

Troubleshooting Startup

- Automatic startup
- Manual cluster startup
- Cluster startup problems
- Resource and service group startup problems

Troubleshooting Faults

- System faults
- Communication faults
- Storage faults
- SFRAC component issues
- VCS resource faults
- Oracle CRS faults

Install and Upgrade Considerations and Options

- Installation considerations
- Rolling upgrade
- Phased upgrade
- Other upgrades

I/O Fencing Maintenance and Configuration

- Common disk-based I/O fencing maintenance tasks
- Troubleshooting disk-based I/O fencing configuration
- Recovering fenced systems
- I/O fencing alternative configurations

Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

training@globalknowledge.com.eg

www.globalknowledge.com.eg

Global Knowledge, 16 Moustafa Refaat St. Block 1137, Sheraton Buildings, Heliopolis, Cairo