VERITAS INFO SCALE AVAILABILITY 7.0 FOR LINUX: ADMINISTRATION

DURATION: 5 DAYS

COURSE OVERVIEW

The Veritas Info Scale Availability 7.0 for Linux: Administration course is designed for the IT professional tasked with installing, configuring, and maintaining Veritas Cluster Server (VCS) clusters.

This five day, instructor-led, hands-on class covers how to use Info Scale Availability 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 can deploy Info Scale Availability in a lab environment to implement a sample cluster design.

TARGET AUDIENCE

This course is for Linux system administrators, system engineers, technical support personnel, network/SAN administrators, and systems integration/development staff, who will be installing, operating, or integrating Info Scale Availability.

COURSE OBJECTIVES

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

1. Describe how clustering is used to implement high availability in the data center environment.
2. Describe VCS and cluster communication mechanisms.
3. Create a cluster, and configure service groups and resources.
4. Implement and verify failover and failback capability. for application, storage, and network services.
5. Configure and optimize cluster behavior.
6. Protect data in a shared storage environment.
7. Describe I/O fencing operations, and its implementation.
8. Configure VCS to manage an Oracle database and other applications.
9. Configure a global cluster environment, including remote clusters, global heartbeats, and global service groups.
10. Configure notification and failover behavior in a global cluster.

COURSE CONTENT

Cluster Server Basics
High Availability Concepts

1. High availability concepts
2. Clustering concepts
3. High availability application services
4. Clustering prerequisites

VCS Building Blocks

1. VCS terminology
2. Cluster communication
3. VCS architecture

VCS Operations

1. Common VCS tools and operations
2. Service group operations
3. Resource operations

VCS Configuration Methods

1. Starting and stopping VCS
2. Overview of configuration methods
3. Online configuration
4. Controlling access to VCS

Preparing Services for VCS

1. Preparing applications for VCS
2. Performing one-time configuration tasks
3. Testing the application service
4. Stopping and migrating an application service
5. Collecting configuration information

Online Configuration

1. Online service group configuration
2. Adding resources
3. Solving common configuration errors
4. Testing the service group

Offline Configuration

1. Offline configuration examples
2. Offline configuration procedures
3. Solving offline configuration problems
4. Testing the service group

Configuring Notification

1. Notification overview
2. Configuring notification
3. Overview of triggers

Cluster Server Additions

1. Handling Resource Faults
2. VCS response to resource faults
3. Determining failover duration
4. Controlling fault behavior
5. Recovering from resource faults
6. Fault notification and event handling

Intelligent Monitoring Framework

1. IMF overview
2. IMF configuration
3. Faults and failover with intelligent monitoring

Cluster Communications

1. VCS communications review
2. Cluster interconnect configuration
3. Joining the cluster membership
4. Changing the interconnect configuration

Cluster Server Applications

1. Using I/O Fencing for Application Data Integrity
2. Data protection requirements
3. I/O fencing concepts
4. I/O fencing operations
5. I/O fencing implementation
6. Fencing configuration

Clustering Applications

1. Application service overview
2. VCS agents for managing applications
3. The Application agent
4. IMF support and prevention of concurrency violation

5. Clustering Databases
6. VCS database agents
7. Database preparation
8. The database agent for Oracle
9. Database failover behavior
10. Additional Oracle agent functions

Global Clustering

1. Global Cluster Architecture and Concepts
2. Global cluster architecture
3. Global cluster components
4. VCS features for global cluster management

5. Inter cluster communication failure

Configuring a Global Cluster

1. Linking clusters
2. Configuring global cluster heartbeats
3. Configuring a global service group
4. Managing dynamic IP address updates

Managing a Global Cluster

1. Managing clusters in a global cluster environment
2. Managing global cluster heartbeats
3. Managing global service groups
4. Using VIOM for disaster recovery

Notification and Failover Behavior in a Global Cluster

1. Notification in a global cluster
2. Failover behavior of a global service group
3. Cluster state transitions
4. Simulating global clusters using the VCS Simulator

COURSE PREREQUISITES

Knowledge of and hands-on experience with Linux systems administration