Veritas InfoScale Availability 7.4.2 for Unix/Linux: Administration

5 day course

Description

The Veritas InfoScale Availability 7.4.2 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 InfoScale 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 InfoScale Availability in a lab environment to implement a sample cluster design.

Participants

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 InfoScale Availability.

Prerequisites

Knowledge of and hands-on experience with Linux systems administration

Objectives

By the completion of this course, you will be able to:
- Describe how clustering is used to implement high availability in the data center environment.
- Describe VCS and cluster communication mechanisms.
- Create a cluster, and 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.
- Describe I/O fencing operations, and its implementation.
- Configure VCS to manage an Oracle database and other applications.
- Configure a global cluster environment, including remote clusters, global heartbeats, and global service groups.
- Configure notification and failover behavior in a global cluster.

Programme

Cluster Server Basics
High Availability Concepts
High availability concepts
Clustering concepts
High availability application services

Clustering prerequisites
VCS Building Blocks
VCS terminology
Cluster communication
VCS architecture
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
Cluster Server Additions
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
Faults and failover with intelligent monitoring
Cluster Communications
VCS communications review
Cluster interconnect configuration
Joining the cluster membership
Changing the interconnect configuration

Cluster Server Applications
Using I/O Fencing for Application Data Integrity
Data protection requirements
I/O fencing concepts
I/O fencing operations
I/O fencing implementation
Fencing configuration
Clustering Applications
Application service overview
VCS agents for managing applications
The Application agent
IMF support and prevention of concurrency violation
Clustering Databases
VCS database agents
Database preparation
The database agent for Oracle
Database failover behavior
Additional Oracle agent functions
Global Clustering
Global Cluster Architecture and Concepts
Global cluster architecture
Global cluster components
VCS features for global cluster management
Intercluster communication failure
Configuring a Global Cluster
Linking clusters
Configuring global cluster heartbeats
Configuring a global service group
Managing dynamic IP address updates
Managing a Global Cluster
Managing clusters in a global cluster environment
Managing global cluster heartbeats
Managing global service groups
Using VIOM for disaster recovery
Notification and Failover Behavior in a Global Cluster
Notification in a global cluster
Failover behavior of a global service group
Cluster state transitions
Simulating global clusters using the VCS Simulator