Enterprise Computing Solutions - Education Services

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Veritas InfoScale Availability 7.3 for UNIX/Linux: Advanced Administration I

CODE:	LENGTH:	PRICE:
VER_ISA-7.3 AA I	40 Hours (5 days)	kr39,500.00

Description

The Veritas InfoScale Availability 7.3 for UNIX/Linux: Advanced Administration I course is designed for the IT professional tasked with managing, configuring, and using clusters in an enterprise environment.

This class covers how to set up advanced networking and fencing configurations, as well as disaster recovery solutions.

Note: This course does not teach basic clustering concepts and is a follow-on course from the Veritas InfoScale Availability 7.3 for UNIX/Linux: Administration course.

Objectives

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

Configure advanced networking environments.
Implement advanced fencing configurations.
Configuring and manage disaster recovery environments and campus clusters.

Audience

This course is for system administrators, architects, and technical support personnel who are responsible for implementing, managing, and supporting clusters in complex enterprise environments.

Prerequisites

You must have administrator-level experience with UNIX or Linux, TCP/IP networking, and clustering using Veritas Cluster Server.

Programme

Reviewing an Existing VCS Environment
Understanding the VCS architecture
Building the cluster configuration
Advanced Networking Configuring VCS
Labs
Exercise A: Adding hosts to VIOM
Exercise B: Using SORT
Exercise C: Verifying the installed clustering software
Exercise D: Understanding cluster memberships and communication
Exercise E: Getting familiar with the cluster configuration

Configuring LLT
LLT over bonded interfaces
LLT over UDP
LLT over RDMA
LLT with different network interfaces
Manually configuring LLT

Using Multiple Public Network Interfaces
Labs
Exercise A: Configuring LLT over UDP
Exercise B: Restoring the original configuration
Exercise C: Using a bonded interface for LLT

Configuring multiple service groups with network resources
Managing multiple public network interfaces
MultiNICB and IPMultiNICB for UNIX
MultiNICA and IPMultiNIC for Linux

Labs
Exercise A: Using multiple network interfaces for increased availability
Exercise B: Observing NIC failover
Exercise C: Configuring a parallel network service group
Exercise D: Replacing NIC resources with Proxy resources
Exercise E: Restoring the original configuration

Labs
Exercise A: Verifying I/O fencing configuration
Exercise B: Verifying data disks for I/O fencing
Exercise C: Testing protection from data corruption
Exercise D: Observing response to system fault
Exercise E: Observing response to interconnect failure
Exercise F: Configuring SCSI3 disk-based fencing in a VCS cluster

Labs
Exercise A: Installing a single-node VCS cluster
Exercise B: Configuring a single-node CP server
Exercise C: Verifying the CP server configuration
Exercise D: Configuring for I/O fencing with a CP server
Exercise E: Testing CP server communication failure
Exercise F: Testing CP server caching
Exercise G: Restoring the original configuration

Labs
Exercise A: Configuring CP server on a VCS cluster
Exercise B: Verifying the clustered CP server configuration
Exercise C: Modifying the fencing configuration on the application cluster
Exercise D: Testing CP server failover and communication failure
Exercise E: Restoring the original configuration

Global Clustering Architecture and Concepts
Global cluster architecture
Global cluster components
VCS features for global cluster management
Intercluster communication failure

Labs
Configuring a Global Cluster
Configuring the Global Cluster Option
Linking clusters
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
Notification in a global cluster
Failover behavior of a global service group
Cluster state transitions
Simulating global clusters using the VCS Simulator

Labs
Exercise A: Configuring notification and event triggers
Exercise B: Testing local failover
Exercise C: Testing intercluster failover with ClusterFailOverPolicy set to Manual
Exercise D: Testing intercluster failover with ClusterFailOverPolicy set to Connected
Exercise E: Testing intercluster failover with ClusterFailOverPolicy set to Auto
Exercise F: Restoring the original configuration

Administering Campus Clusters
Campus clustering solutions with InfoScale
Preparing to set up a campus cluster configuration
Configuring Storage Foundation for campus clustering
Configuring a VCS service group for campus clusters
Testing site awareness
Failure scenarios with campus clusters
Optional: Legacy campus clustering

Labs
Exercise A: Reviewing the lab environment
Exercise B: Configuring site awareness at the Storage Foundation level
Exercise C: Configuring the campus cluster
Exercise D: Testing service group failover in a campus cluster

Implementing Disk-Based I/O Fencing
Data protection requirements
I/O fencing concepts
I/O fencing operations
I/O fencing implementation
Data Protection
Fencing configuration

Implementing Coordination Point Server
Coordination point concepts
Server-based fencing architecture
CPS operations
Installing and configuring a CP server
Configuring I/O fencing with CPS
Coordination point agent

Administering Fencing Configurations
Installing and configuring clustered CP servers
Administering CPS
Administering disk-based I/O fencing
Configuring preferred fencing

Disaster Recovery

Labs
Exercise A: Preparing the lab environment for global clustering
Exercise B: Configuring a local service group for the application

Labs
Exercise A: Configuring the global cluster option
Exercise B: Securing communication between the wide-area connectors
Exercise C: Linking clusters
Exercise D: Verifying DNS server access from cluster systems
Exercise E: Configuring a global service group

Labs
Exercise A: Testing dynamic DNS updates
Exercise B: Adding another Icmp heartbeat link

Notification and Failover Behavior in a Global Cluster

Session Dates

På begäran, kontakta oss

Ytterligare information

Denna utbildning finns också som utbildning på plats. Kontakta oss för mer information.