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TRAINING OFFERING

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Veritas InfoScale Storage 7.3 for UNIX/Linux: Administration

CODE:	LENGTH:	PRICE:
VER_ISS-7.3 A-U	40 Hours (5 days)	kr39,000.00

Description

The Veritas InfoScale Storage 7.0 for Linux: Administration course is designed for the IT professional tasked with installing, configuring, and maintaining the Veritas InfoScale Storage environments, including Volume Manager (VxVM), File System (VxFS), and Cluster File System (CFS).
This five day, instructor-led, hands-on class covers how to use InfoScale Storage to manage disks, disk groups, and volumes by using a variety of InfoScale Storage user interfaces including the Veritas InfoScale Operations Manager (VIOM) Web console. You learn the basics of online file system administration and recovery from disk failures. In addition, you learn about data replication using Veritas File Replicator and Veritas Volume Replicator. You also learn how to configure Veritas Cluster Volume Manager and Veritas Cluster File System

Objectives

By the completion of this course, you will be able to: · Create, configure, and manage disks, disk groups, and volumes.
· Administer file systems.
· Manage components in the VxVM architecture.
· Manage multiple paths to disk devices.
· Identify types of disk failures and how to resolve them.
· Describe concepts and components specific to Veritas Replicator, and Veritas File Replicator.
· Configure a CFS cluster according to a specified sample design.
· Configure shared disk groups and volumes.
· Configure shared file systems.
· Share local disks among systems in a cluster

Audience

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

Prerequisites

Knowledge of and hands-on experience with UNIX/Linux systems administration is required.

Programme

Virtual Objects
Operating system storage devices and virtual data storage
Volume Manager (VxVM) storage objects
InfoScale Storage Basics VxVM volume layouts and RAID levels
Creating a Volume and File System
Preparing disks and disk groups for volume creation
Creating a volume and adding a file system
Displaying disk and disk group information
Displaying volume configuration information
Removing volumes, disks, and disk groups

Labs
Exercise A: Creating disk groups, volumes and file systems: CLI
Exercise B: Removing volumes and disks: CLI
Exercise C: Destroying disk data using disk shredding: CLI
Exercise D: (Optional) Creating disk groups, volumes, and file systems: VIOM
Exercise E: (Optional) Removing volumes, disks, and disk groups: VIOM

Working with Volumes with Different Layouts
Volume layouts
Creating volumes with various layouts
Allocating storage for volumes

Making Configuration Changes
Administering mirrored volumes
Resizing a volume and a file system
Moving data between systems
Renaming VxVM objects

Labs
Exercise A: Creating volumes with different layouts: CLI
Exercise B: (Optional) Creating volumes with user defaults: CLI

Administering File Systems
Benefits of using Veritas File System
Using Veritas File System commands
Logging in VxFS
Controlling file system fragmentation
Using thin provisioning disk arrays

Labs
Exercise A: Administering mirrored volumes
Exercise B: Resizing a volume and file system
Exercise C: Renaming a disk group
Exercise D: Moving data between systems
Exercise E: (Optional) Resizing a file system only

Labs
Exercise A: Preparing for “Defragmenting a Veritas File System” exercise
Exercise B: Defragmenting a Veritas File System
Exercise C: Using SmartMove
Exercise D: Observing thin reclamation

Managing Devices

Labs
Exercise A: Configuring VxVM caching
Exercise B: Configuring VxFS read caching
Exercise C: Configuring VxFS writeback caching
Exercise D: Destroying cache area

SmartIO
InfoScale Storage 7.3 SmartIO
Support for caching on Solid State Drives (SSDs)
Using SmartAssist Tool

Labs
Exercise A: Administering the Device Discovery Layer
Exercise B: Displaying DMP information
Exercise C: Displaying DMP statistics
Exercise D: Enabling and disabling DMP paths
Exercise E: Managing array policies

Dynamic Multi-Pathing
Managing components in the VxVM architecture
Discovering disk devices
Managing multiple paths to disk devices

Dynamic Multi-Pathing for VMware
DMP in a VMware ESX/ESXi environment
Managing DMP for VMware
Administering the SmartPool
Performance monitoring and tuning using the DMP console

Resolving Hardware Problems
How does VxVM interpret failures in hardware?
Recovering disabled disk groups
Resolving disk failures

Labs
Exercise A: Recovering a temporarily disabled disk group
Exercise B: Preparing for disk failure labs
Exercise C: Recovering from temporary disk failure
Exercise D: Recovering from permanent disk failure
Exercise E: (Optional) Recovering from temporary disk failure—Layered volume
Exercise F: (Optional) Recovering from permanent disk failure—Layered volume
Exercise G: (Optional) Replacing physical drives—without hot relocation
Exercise H: (Optional) Replacing physical drives—with hot relocation
Exercise I: (Optional) Recovering from temporary disk failure with vxattachd daemon
Exercise J: (Optional) Exploring spare disk behavior
Exercise K: (Optional) Using the Support Web Site

Cluster File System

Storage Foundation Cluster File System Architecture
SFCFS overview
SFCFS architecture
SFCFS communication
VCS management of SFCFS infrastructure

Cluster Volume Manager
VxVM and CVM overview
CVM concepts
CVM configuration
CVM response to storage disconnectivity

Labs
- Exercise A: Creating shared disk groups and volumes using CLI
- Exercise B: Creating a shared disk group and volume using VIOM
- Exercise C: Converting a disk group from shared to private and vice versa
- Exercise D: Investigating the impact of the disk group activation modes
- Exercise E: (Optional) Observing the impact of rebooting the master node in a storage cluster

Cluster File System
- Cluster File System concepts
- Data flow in CFS
- Administering CFS Flexible Storage Sharing

Understanding Flexible Storage Sharing
- FSS storage objects
- FSS case study
- Flexible Storage Sharing implementation
- FSS configuration

Labs
- Exercise A: Creating a shared file system – CLI
- Exercise B: Changing the primary node role – CLI
- Exercise C: Placing the shared file system under the storage cluster control – CLI
- Exercise D: Deleting shared file systems and disk groups

Disaster Recovery and Replication Overview
- Disaster recovery concepts
- Defining replication
- Replication options and technologies
- Veritas technologies for disaster recovery

Replication

Veritas File Replicator
- Understanding Veritas File Replicator
- Setting up replication for a Veritas file system
- Error recovery with Veritas File Replicator

Labs
- Exercise A: Setting up and performing replication for a VxFS file system
- Exercise B: Restoring the source file system using the replication target

Veritas Volume Replicator Components
- Veritas Volume Replicator overview
- Comparing volume replication with volume management
- Volume Replicator components
- Volume Replicator data flow

Labs
- Exercise A: Preparing storage for replication
- Exercise B: Establishing replication
- Exercise C: Observing data replication
- Exercise D: Migrating the primary role

Veritas Volume Replicator Operations
- Replication setup
- Assessing the status of the replication environment
- Migration, takeover, and fast failback

Session Dates

Ved forespørsel. Vennligst kontakt oss

Tilleggsinformasjon

Denne treningen er også tilgjengelig som trening på stedet. Kontakt oss for å finne ut mer.