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Veritas InfoScale Storage 7.3 for UNIX/Linux: Administration - På anmodning

CODE:	LENGTH:	PRICE:
VER_ISS-7.3 A-U	40 Hours (5 dage)	kr 25,100.00

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

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

Resizing a volume and a file system
 Moving data between systems
 Renaming VxVM objects

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

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: 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

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

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

Labs
 Exercise A: Administering the Device Discovery Layer

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

 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 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   Labs
 FSS storage objects   Exercise A: Creating a shared file system – CLI
 FSS case study   Exercise B: Changing the primary node role – CLI
 Flexible Storage Sharing implementation   Exercise C: Placing the shared file system under the storage cluster control – CLI
 FSS configuration   Exercise D: Deleting shared file systems and disk groups
              Disaster Recovery and Replication Overview
               Disaster recovery concepts   Veritas File Replicator
               Defining replication   Understanding Veritas File Replicator
               Replication options and technologies Setting up replication for a Veritas file system
Replication Veritas technologies for disaster recovery 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   Labs
 Veritas Volume Replicator overview   Exercise A: Preparing storage for replication
 Comparing volume replication with volume management Exercise B: Establishing replication
 Volume Replicator components   Exercise C: Observing data replication
 Volume Replicator data flow   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

På anmodning. Kontakt os venligst

Yderligere Information

Denne træning er også tilgængelig som træning på stedet. Kontakt os for at finde ud af mere.