Veritas InfoScale Storage 7.3 for UNIX/Linux: Administration

5 day course

Description

The Veritas InfoScale Storage 7.3 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

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 Storage.

Prerequisites

Knowledge of and hands-on experience with Linux systems administration.

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

Programme

Storage Foundation Basics
Virtual Objects

· Operating system storage devices and virtual data storage
· Volume Manager storage objects
· 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

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

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

Storage Foundation Managing Devices

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
· Performance monitoring and tuning

Resolving Hardware Problems

· How does VxVM interpret failures in hardware?
· Recovering disabled disk groups
· Resolving disk failures
· Managing hot relocation at the host level

Storage Foundation Cluster File System

Cluster File System Architecture

· CFS overview
· CFS architecture
· CFS communication

Cluster Volume Manager

· VxVM and CVM overview
· CVM concepts
· CVM configuration

Cluster File System

· Cluster File System concepts
· Data flow in CFS

· Group Lock Manager
· Administering CFS
Flexible Storage Sharing
· Understanding Flexible Storage Sharing
· FSS storage objects