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VERITAS 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 25,000.00

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.
- \cdot Identify types of disk failures and how to resolve them.
- · Describe concepts and components specific to Veritas Replicator, and Veritas File Replicator.
- \cdot Configure a CFS cluster according to a specified sample design.
- \cdot Configure shared disk groups and volumes.
- · Configure shared file systems.
- \cdot 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 Working with Volumes with Different Layouts Exercise C: Destroying disk data using disk shredding: CLI Volume layouts Exercise D: (Optional) Creating disk groups, volumes, and file systems: VIOM Creating volumes with various layouts Exercise E: (Optional) Removing volumes, disks, and disk groups: VIOM Allocating storage for volumes Making Configuration Changes Administering mirrored volumes Resizing a volume and a file system Labs Exercise A: Creating volumes with different layouts: CLI Moving data between systems Exercise B: (Optional) Creating volumes with user defaults: CLI Renaming VxVM objects Labs Administering File Systems Exercise A: Administering mirrored volumes Benefits of using Veritas File System Using Veritas File System commands Exercise B: Resizing a volume and file system Exercise C: Renaming a disk group Logging in VxFS Exercise D: Moving data between systems Controlling file system fragmentation Exercise E: (Optional) Resizing a file system only 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 SmartIO Exercise A: Configuring VxVM caching InfoScale Storage 7.3 SmartIO Exercise B: Configuring VxFS read caching Support for caching on Solid State Drives (SSDs) Exercise C: Configuring VxFS writeback caching Using SmartAssist Tool Exercise D: Destroying cache area Labs Exercise A: Administering the Device Discovery Layer Exercise B: Displaying DMP information **Dynamic Multi-Pathing** Exercise C: Displaying DMP statistics Managing components in the VxVM architecture Exercise D: Enabling and disabling DMP paths Discovering disk devices Exercise E: Managing array policies 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 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.