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Veritas InfoScale Storage 7.3 for UNIX/Linux: Advanced Administration

| CODE: | LENGTH: | PRICE: |
|----------------|----------|---------------|
| VER_ISS-7.3 AA | 5 day(s) | Request Price |

Description

The Veritas InfoScale Storage 7.3 for UNIX/Linux: Advanced Administration course, discusses how to integrate, manage, operate, and utilize Veritas InfoScale Storage advanced features, which include Dynamic Multi-Pathing, Smart Tiering, Docker support, Performance Tuning, and Snapshots - in a UNIX environment.

You learn how to manage the VxVM Private Region and understand different disk layouts, disk group management, and how to build volumes from scratch. You also learn about disk group split, move and joins, volume relayout, volume sets, multivolume file systems, online file system administration, remote mirroring across sites, offline and off- host processing using volume snapshots and storage checkpoints, and dynamic storage tiering.

Objectives

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

- Manage the advanced features of Veritas Storage Foundation.
- Configure and manage disks, disk groups, and volumes.
- Administer Veritas File System advanced features.
- Manage the Dynamic Multi-Pathing feature.
- Apply performance tuning principles to Veritas Volume Manager, Veritas File System and Dynamic Multi- Pathing.
- Monitor VxVM and change volume layouts to improve performance.
- Create and manage point-in-time copies for off-host and on-host processing.
- Manage LUN snapshots.
- Remotely mirror your data across different sites.
- Use dynamic storage tiering for optimal storage allocation.
- Provision storage in a Docker environment.

Audience

This course is for UNIX system or network administrators, system engineers, technical support personnel, and system integration/development staff who will be administering Veritas Storage Foundation advanced features.

Prerequisites

Veritas InfoScale Storage 7.3 for UNIX Knowledge of UNIX system administration.

Programme

Volume Manager Overview
Supported upgrade paths
Upgrade considerations
Operating system storage devices and virtual data storage

Labs
Exercise A: Installing Storage Foundation
Exercise B: Upgrading from Storage Foundation to InfoScale Storage
Exercise C: Creating disks with different disk types and formats

Managing VxVM Components
Managing components in the VxVM architecture
Volume Manager storage objects
Volume layouts
Viewing object attributes

Labs

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| Exercise A: Creating a disk group containing non-cds disks | |
| Exercise B: Converting non-cds disks in a disk group to the CDS disk format | Advanced Disk Group Operations |
| Exercise C: Creating volumes with different layouts | Disk group information |
| Exercise D: Creating layered volumes | Disk group split, move, and join |
| Exercise E: Creating volumes with user defaults | Disk group backup/restore |

Advanced Volume Operations

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| Using vxmake to create volume manager objects |
| Changing the volume layout |
| Online relay layout process |
| Managing volume tasks |
| Securing data at rest |

Labs

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| Exercise A: Preparing for disk group split/move/join operations |
| Exercise B: Performing vxdg split and join operations specifying volume objects |
| Exercise C: Performing vxdg split and join operations specifying disk objects |
| Exercise D: Performing vxdg join operations when conflicting objects exist |
| Exercise E: Performing vxdg move operations |
| Exercise F: Performing configuration backups |

File System Architecture

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| VxFS layout versions | Labs |
| Components and attributes of Veritas File System | Exercise A: Viewing the file system metadata |

File System Advanced Features

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| Compressing files and directories with VxFS | Labs |
| Using the FileSnap feature | Exercise A: Compressing files and directories with VxFS |
| Deduplicating VxFS data | Exercise B: Deduplicating VxFS data |
| Migrating a native file system to VxFS | Exercise C: Using the FileSnap feature |
| | Exercise D: Migrating a native file system to VxFS |

Dynamic Multi-Pathing Administration Labs

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| DMP/DDD overview | Exercise A: Perform DMP testing using the vxdmpadm command |
| Event Source Daemon | Exercise B: Perform DMP testing using the vxcheckasl command |
| ASL/APM administration | Exercise C: Perform DMP testing using the vxdisk command |
| DDL/DMP CLI administration | Exercise D: Perform DMP testing using the vxddladm command |

Dynamic Multi-Pathing Advanced Operations

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| Subpath failover groups | Labs |
| Array/enclosure management | Exercise A: Listing Subpath Failover Groups (SFG) |
| Online dynamic LUN reconfiguration | Exercise B: Tuning the Low Impact Path Probing (LIPP) attributes |
| DDL/DMP enhancements | Exercise C: Differentiating manually disabled paths |

Volume Sets and MVFS Management

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| Creating and managing volume sets | |
| Creating and managing multi-volume file systems | Labs |
| Volume device visibility | Exercise A: Configuring a volume set with a multi-volume file system |
| Administering raw device access | Exercise B: Configuring device visibility |

Implementing SmartTier (ST)

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| Introducing SmartTier | |
| Defining the SmartTier concepts | Labs |
| Creating storage tiers | Exercise A: Configuring a multi-volume file system and SmartTier |
| Implementing file placement policies | Exercise B: Testing SmartTier |

Co-existence with Array-based Snapshots

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| Understanding snapshot technologies | Labs |
| Identifying hardware snapshots using Volume Manager | Exercise A: LUN snapshots setup |
| Managing clone disks | Exercise B: Importing clone disk groups |
| Using disk tags | Using Full-Copy Volume Snapshots |
| | Creating and managing full-copy volume snapshots |
| | Using volume snapshots for off-host processing |

Labs

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| Exercise A: Full-sized instant snapshots |
| Exercise B: Off-host processing using split-mirror volume snapshots |
| Exercise C: Traditional volume snapshots |

Using Copy-on-Write SF Snapshots

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| Creating and managing space-optimized volume snapshots | Labs |
| Creating and managing storage checkpoints | Exercise A: Using space-optimized instant volume snapshots |
| Serving business requirements | Exercise B: Restoring a file system using storage checkpoints |
| | Exercise C: Examining storage checkpoint behavior |

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| | Labs | |
| | Exercise A: Using vxbench and vxstat | |
| | Exercise B: Tracing I/O | |
| | Exercise C: Maintaining quality of service | |
| | Performance Tuning | |
| | Understanding the environment | |
| Performance Monitoring and Management | VxVM tunables and volume best practices | |
| Performance benchmarking tools | VxFS tunables, inode cache and cache advisories | |
| Ensuring quality of service | DMP tunables | |
| | Using Site Awareness with Mirroring | |
| | Introducing remote mirroring and site awareness | |
| Labs | Configuring site awareness | |
| Exercise A: Benchmarking | Recovering from failures with remote mirrors | |
| Exercise B: Isolating performance issues | Verifying a site-aware environment | |
| Labs | | Support for Docker Deployments |
| Exercise A: Configuring site awareness | | Docker overview |
| Exercise B: Analyzing the volume read policy | | Introducing support for Docker deployments |
| Exercise C: Analyzing the impact of disk failure in a site-consistent environment | | Provisioning storage to Docker containers |
| Exercise D: A manual fire drill operation with remote mirroring | | Additional features and limitations |
| Labs | | |
| Exercise A: Preparing the Docker environment | | |
| Exercise B: Creating volumes for use with Docker containers | | |
| Exercise C: Moving Docker containers | | |

Session Dates

Ved forespørsel. Vennligst [kontakt oss](#)

Tilleggsinformasjon

[Denne treningen er også tilgjengelig som trening på stedet. Kontakt oss for å finne ut mer.](#)