



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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# Veritas InfoScale Fundamentals 7.3 for UNIX/Linux: Administration

CODE:	LENGTH:	PRICE:
VER_IS-7.3 A-U	40 Hours (5 dage)	kr 25,000.00

## Description

The Veritas InfoScale 7.3 Fundamentals for UNIX/Linux Administration course is designed for the IT professional who wants an overview of the Veritas InfoScale Storage and Veritas InfoScale Availability products.

This five-day class is a condensed version of the five-day Veritas InfoScale Storage 7.3 for UNIX/Linux: Administration course and the five-day Veritas InfoScale Availability 7.3 for UNIX/Linux: Administration course. This is a subset of the two courses, and it covers the absolute basics of the two products InfoScale Storage 7.3 and InfoScale Availability 7.3.

This course will NOT prepare you for the certification exams\* or the Advanced courses\*\* of both the products.

\* Certification exams:

Administration of Veritas InfoScale Storage 7.3 for UNIX/Linux Exam

Administration of Veritas InfoScale Availability 7.3 for UNIX/Linux Exam

\*\* Advanced courses:

Veritas InfoScale Storage 7.x for UNIX/Linux: Advanced Administration

Veritas InfoScale Availability 7.x for UNIX/Linux: Advanced Administration I & II

Hands-On

This course includes practical hands-on exercises that enable you to test your new skills and begin to transfer them into your working environment.

## Objectives

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

- Install and configure Veritas InfoScale Enterprise.
- Configure and manage disks, disk groups, and volumes.
- Administer file systems.
- Create a cluster.
- Configure service groups and resources.
- Implement and verify failover and failback capability for application, storage, and network services.

## Audience

This course is designed 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 and InfoScale Availability.

## Prerequisites

Knowledge of UNIX system administration.

## Programme

PART 1: Veritas InfoScale Storage 7.3 for UNIX/Linux: Administration

InfoScale Storage Basics

## Virtual Objects

- Operating system storage devices and virtual data storage
- Volume Manager (VxVM) 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

## 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

## Labs

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

## Making Configuration Changes

- Administering mirrored volumes
- 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

## PART 2: Veritas InfoScale Availability 7.3 for UNIX/Linux: Administration

### InfoScale Availability Basics

#### High Availability Concepts

- High availability concepts
- Clustering concepts
- High availability application services
- Clustering prerequisites

#### VCS Building Blocks

- VCS terminology
- Cluster communication
- VCS architecture

## VCS Operations

- Common VCS tools and operations
- Service group operations
- Resource operations

## Labs

- Exercise A: Displaying cluster information
- Exercise B: Displaying status and attributes
- Exercise C: Performing service group operations
- Exercise D: Manipulating resources

## VCS Configuration Methods

- Starting and stopping VCS
- Overview of configuration methods
- Online configuration
- Controlling access to VCS

## Labs

- Exercise A: VCS configuration state and stopping VCS
- Exercise B: Configuring automatic backup of the VCS configuration
- Exercise C: Setting non default VCS stop options

## Preparing Services for VCS

- Preparing applications for VCS
- Performing one-time configuration tasks
- Testing the application service
- Stopping and migrating an application service
- Collecting configuration information

## Labs

- Exercise A: Configuring and examining storage for the service
- Exercise B: Examining the application
- Exercise C: Manually starting and stopping the application

## Online Configuration

- Online service group configuration
- Adding resources
- Solving common configuration errors
- Testing the service group

## Labs

- Exercise A: Creating a service group for the loopy application
- Exercise B: Configuring resources for the loopy application
- Exercise C: Performing a virtual fire drill on the service group
- Exercise D: Testing the service group
- Exercise E: Setting resources to critical
- Exercise F: (Optional) Examining Veritas File System locking by VCS

## Offline Configuration

- Offline configuration examples
- Offline configuration procedures
- Solving offline configuration problems
- Testing the service group

## Labs

- Exercise A: Editing a copy of the main.cf file using a system editor
- Exercise B: Stopping VCS
- Exercise C: Restarting VCS using the edited main.cf file

## Configuring Notification

- Notification overview
- Configuring notification
- Overview of triggers

## Labs

- Exercise A: Configuring and testing the notifier using VIOM
- Exercise B: Configuring trigger scripts

## InfoScale Availability Additions

### Handling Resource Faults

- VCS response to resource faults
- Determining failover duration
- Controlling fault behavior
- Recovering from resource faults
- Fault notification and event handling

### Labs

- Exercise A: Observing non-critical resource faults
- Exercise B: Observing critical resource faults
- Exercise C: (Optional) Observing faults in frozen service groups
- Exercise D: (Optional) Observing ManageFaults behavior
- Exercise E: (Optional) Observing restart limit behavior

### Intelligent Monitoring Framework

- IMF overview
- IMF configuration
- Faults and failover with intelligent monitoring

### Labs

- Exercise A: Examining IMF monitoring on a resource
- Exercise B: (Optional) Examining the IMF default configuration

### Cluster Communications

- VCS communications review
- Cluster interconnect configuration
- Joining the cluster membership
- Changing the interconnect configuration

### Labs

- Exercise A: Reconfiguring LLT
- Exercise B: Observing jeopardy membership

## 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.](#)