



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

Du kan nå os her

Email: training.ecs.dk@arrow.com
Phone: +45 7025 4500



Veritas InfoScale Availability 7.3 for UNIX/Linux: Administration

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

Description

The Veritas InfoScale Availability 7.3 for Unix/Linux: Administration course is designed for the IT professional tasked with installing, configuring, and maintaining Veritas Cluster Server (VCS) clusters.

This class discusses how to use InfoScale Availability to manage applications in a high availability environment. After gaining the necessary fundamental skills that are required to manage a highly available application in a cluster, the course enables you to deploy InfoScale Availability in the lab environment to practically implement a sample cluster design and deployment.

Objectives

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

- Describe how clustering is used to implement high availability in the data center environment.
- Describe VCS and cluster communication mechanisms.
- Create a cluster, and configure service groups and resources.
- Implement and verify failover and failback capability for application, storage, and network services.
- Configure and optimize cluster behavior.
- Protect data in a shared storage environment.
- Describe I/O fencing operations, and its implementation.
- Configure VCS to manage an Oracle database and other applications.
- Configure and manage VCS clusters on virtual machines in VMware environment.
- Implement Just in Time Availability for single node VCS cluster on virtual machine in a VMware environment.

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 Availability.

Prerequisites

Knowledge of and hands-on experience with UNIX/Linux systems administration is required.

Programme

| | | | |
|---|--|-----------------------|---------------------------------|
| | High Availability Concepts | | |
| | High availability concepts | VCS Building Blocks | |
| | Clustering concepts | VCS terminology | |
| | High availability application services | Cluster communication | |
| Cluster Server Basics | Clustering prerequisites | VCS architecture | |
| Labs | | | VCS Operations |
| Exercise A: Installing InfoScale Enterprise using the Common Product Installer (CPI)] | | | Common VCS tools and operations |
| Exercise B: Running a post-installation check | | | Service group operations |
| Exercise C: Adding cluster systems to VIOM as managed hosts | | | Resource operations |

| | | |
|--|--|---------------------------------------|
| Labs | VCS Configuration Methods | |
| Exercise A: Displaying cluster information | Starting and stopping VCS | |
| Exercise B: Displaying status and attributes | Overview of configuration methods | |
| Exercise C: Performing service group operations | Online configuration | |
| Exercise D: Manipulating resources | Controlling access to VCS | |
| | Preparing Services for VCS | |
| | Preparing applications for VCS | |
| Labs | Performing one-time configuration tasks | |
| Exercise A: VCS configuration state and stopping VCS | Testing the application service | |
| Exercise B: Configuring automatic backup of the VCS configuration | Stopping and migrating an application service | |
| Exercise C: Setting non default VCS stop options | Collecting configuration information | |
| | Online Configuration | |
| Labs | Online service group configuration | |
| Exercise A: Configuring and examining storage for the service | Adding resources | |
| Exercise B: Examining the application | Solving common configuration errors | |
| Exercise C: Manually starting and stopping the application | Testing the service group | |
| Labs | | |
| Exercise A: Creating a service group for the loopy application | | |
| Exercise B: Configuring resources for the loopy application | Offline Configuration | |
| Exercise C: Performing a virtual fire drill on the service group | Offline configuration examples | |
| Exercise D: Testing the service group | Offline configuration procedures | |
| Exercise E: Setting resources to critical | Solving offline configuration problems | |
| Exercise F: (Optional) Examining Veritas File System locking by VCS | Testing the service group | |
| Labs | Configuring Notification | |
| Exercise A: Editing a copy of the main.cf file using a system editor | Notification overview | |
| Exercise B: Stopping VCS | Configuring notification | |
| Exercise C: Restarting VCS using the edited main.cf file | Overview of triggers | |
| | Handling Resource Faults | |
| | VCS response to resource faults | |
| | Determining failover duration | |
| | Controlling fault behavior | |
| | Recovering from resource faults | |
| Labs | Cluster Server Additions | Fault notification and event handling |
| Exercise A: Configuring and testing the notifier using VIOM | | |
| Exercise B: Configuring trigger scripts | | |
| Intelligent Monitoring Framework | | |
| IMF overview | Labs | |
| IMF configuration | Exercise A: Examining IMF monitoring on a resource | |
| Faults and failover with intelligent monitoring | Exercise B: (Optional) Examining the IMF default configuration | |
| Cluster Communications | | |
| VCS communications review | | |
| Cluster interconnect configuration | Labs | |
| Joining the cluster membership | Exercise A: Reconfiguring LLT | |
| Changing the interconnect configuration | Exercise B: Observing jeopardy membership | Cluster Server Applications |
| Using I/O Fencing for Application Data Integrity | | |
| Data protection requirements | Labs | |
| I/O fencing concepts | Exercise A: Fencing configuration pre-checks | |
| I/O fencing operations | Exercise B: Configuring VCS for I/O fencing | |
| I/O fencing implementation | Exercise C: I/O fencing configuration verification | |
| Fencing configuration | Exercise D: Verifying data disks for I/O fencing | |
| Clustering Applications | | |
| Application service overview | Labs | |
| VCS agents for managing applications | Exercise A: Adding a resource of type Application | |
| The Application agent | Exercise B: Testing the resource | |
| IMF support and prevention of concurrency violation | Exercise C: IMF and Application agent monitoring options | |
| | Labs | |
| Clustering Databases | Exercise A: Verifying the Oracle configuration | |
| VCS database agents | Exercise B: Preparing storage and network resources for the Oracle service group | |
| Database preparation | Exercise C: Testing the Oracle database manually | |
| The database agent for Oracle | Exercise D: Configuring Oracle under VCS control | |
| Database failover behavior | Exercise E: Running a virtual fire drill and switching the Oracle service group | |
| Additional Oracle agent functions | Exercise F: (Optional) Oracle monitoring | |
| | VMware vSphere high availability architecture | |
| | VMware administration | |
| | VMware storage architecture | |
| In-Guest Clustering VMware vSphere Data Center Architecture | Server and storage migration | |
| | Veritas High Availability Deployment in VMware | |
| Labs | Veritas high availability architecture in VMware | |
| Exercise A: Verifying the VMware vSphere lab environment | Deploying Veritas InfoScale on VMs | |
| Exercise B: Connecting to the nested virtual machines | Configuring VIOM to manage InfoScale on VMs | |
| Exercise C: Testing vMotion | Configuring the vSphere Web Client for Veritas HA | |

Labs

Exercise A: Preparing the nested virtual machine lab environment
Exercise B: Deploying a Veritas cluster on nested virtual machines
Exercise C: Adding cluster systems as managed hosts to VIOM
Exercise D: Installing the VIOM Control Host add-on on mgt
Exercise E: Adding virtualization information to the VIOM management server
Exercise F: Installing and registering the Veritas HA Plug-in for vSphere Web Client
Veritas High Availability Configuration and Administration
Configuring storage for VCS failover clusters
Configuring shared storage for CFS clusters
Configuring availability
Just In Time Availability solution

Labs

Exercise A: Preparing the nested virtual machine lab environment
Exercise B: Using the vSphere Web Client to monitor Veritas high availability
Exercise C: Setting EnableUUID parameter for virtual machine disks
Exercise D: Configuring a VCS service group with the VMwareDisks resource to manage virtual machine storage
Exercise E: Managing the VCS service group from the vSphere Web Client
Exercise F: Testing vMotion with Veritas in-guest clustering
Exercise G: Exercise G: (Optional) Completing the Oracle service group configuration

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.](#)