

Advanced Veritas Cluster Server 5.0 for Solaris

COURSE DESCRIPTION

The *Advanced VCS 5.0 for Solaris* course is designed for the IT professional tasked with managing, configuring, and using VCS clusters in an enterprise environment where there is a need to extend to multiple clusters and multiple sites. This five-day, instructor-led, hands-on class covers how to configure secure clusters, establish centralized management of multiple clusters, manage multisite environments, and maintain and troubleshoot the cluster. Students will also learn how to configure campus clusters and global clusters for disaster recovery purposes, and understand how VCS can be used in virtual environments. Note that this course does not teach basic clustering concepts and is a follow-on course from the *Veritas Cluster Server 5.x for Solaris* course.

Delivery Method

Instructor-led

Duration

Five days

Course Objectives

By the end of this course, you should be able to:

- Deploy Cluster Management Console (CMC) to centralize the management of all the clusters in your environment.
- Implement Veritas Security Services to integrate the VCS clusters into your company's user authentication policies.
- Understand the user roles and privileges that enable operators and administrators to accomplish their tasks on multiple clusters using a Web console.
- Configure notification policies for a variety of events.
- Administer the CMC server.
- Use the historical data reporting functionality in CMC to analyze your cluster environment and to link actual figures to service-level agreements.
- Configure a global cluster using the VCS Global Cluster Option.
- Manage a global cluster environment, including remote clusters, global heartbeats, and global service groups.
- Configure notification and failover behavior in a global cluster.
- Establish dependency relationships between applications running in remote clusters.
- Use VCS with Solaris 10 zones.

- Implement campus clusters using Storage Foundation 5.0 and VCS 5.0.

Who Should Attend

This course is for system administrators, architects, and technical support personnel who are responsible for implementing, managing, and supporting multiple VCS clusters across multiple sites in an enterprise environment.

Prerequisites

You should have working knowledge of Solaris system administration and configuration. Completion of the *Veritas Storage Foundation 5.x* (five-day, instructor-led) and *Veritas Cluster Server 5.x (Suite)* (five-day, instructor-led) courses, or equivalent experience on each product, is required.

Hands-On

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

COURSE OUTLINE

Veritas Cluster Server 5.0 for Solaris, Managing Multiple Clusters

Cluster Management Console Deployment

- CMC Architecture and Concepts
- Installing the CMC Server
- Connecting to the Management Server
- Installing and Configuring Managed Clusters

Symantec Product Authentication Service

- Concepts and Terminology
- Installation and Configuration
- Administering the Security Services

Secure Clusters

- Installation and Configuration
- User Administration in Secure Clusters
- Implementation in Large Enterprises

Cluster Management Console Operations

- User Administration in CMC
- Monitoring Clusters Using CMC
- Cluster Operations and Configuration Using CMC

Cluster Management Console Administration

- Configuring Notification in CMC
- Managing the CMC Database
- Peer Management Server

Reporting Functionality in CMC

- Understanding the Reporting Functionality
- Managing Report Jobs
- Managing Report Outputs

Veritas Cluster Server 5.0 for Solaris, Global Clustering

Global Cluster Architecture and Concepts

- Global Cluster Architecture
- Global Cluster Components
- VCS Features Enabling Management of Global Cluster Components
- Intercluster Communication Failure in a Global Cluster

Configuring a Global Cluster

- Configuring the Global Cluster Option
- Linking Clusters
- Configuring Global Cluster Heartbeats
- Configuring a Global Service Group
- Managing Dynamic IP Address Updates

Managing a Global Cluster

- Managing Clusters in a Global Cluster Environment
- Managing Global Cluster Heartbeats
- Managing Global Service Groups
- Using CMC for Disaster Recovery

Notification and Failover Behavior in a Global Cluster

- Notification in a Global Cluster
- Failover Behavior of a Global Service Group
- Cluster State Transitions
- Simulating Global Clusters Using the VCS Simulator

Veritas Cluster Server 5.0 for Solaris, Optional Enterprise Features

Service Group Dependencies Across Clusters

- Application Dependency Across Clusters
- Configuring a RemoteGroup Resource
- Best Practices on Cross-Cluster Dependencies

Support for Virtual Machines and Virtual Partitions in VCS 5.0

- Overview of the Available Virtual Environments
- Solaris 10 Zone Overview
- Solaris Zone Support in VCS
- Running an Application Under VCS Control in a Local Zone

Implementing Campus Clusters Using SF 5.0

- Campus Cluster Scenarios
- Site Awareness with SF 5.0
- Campus Clusters with VCS 5.0

Veritas Cluster Server 5.0 for Solaris, Maintenance & Troubleshooting

Troubleshooting VCS Communications

- VCS Communications Overview
- Jeopardy
- Network Partitions and Split Brain

Maintenance Workshop: Reconfiguring Cluster Membership

- Task 1: Removing a System from a Running VCS Cluster
- Task 2: Adding a New System to a Running VCS Cluster
- Task 3: Merging Two Running VCS Clusters

Clustering a NetBackup Master Server

- Introduction
- Installing NetBackup in a VCS Cluster
- Cluster Configuration on the Primary Node
- NetBackup Configuration Under VCS
- Device Configuration