

## **Solaris Volume Manager Administration**

**Duration: 3 Days**

### **What you will learn**

The Solaris Volume Manager Administration course provides Sun partners, resellers, and customers with the knowledge and skills to ensure proper implementation and support of the Solaris Volume Manager software. These skills include, but are not limited to, planning, configuration, and administration.

Students who can benefit from this course:

Post-sales channel resellers, Value-Added Resellers (VAR), Field Service Engineers (FEs), and End Users

### **Related Training**

Required Prerequisites

Backup and restore file systems

Change system run levels

Use the OPEN LOOK graphical user interface (GUI)

Administer disks and file systems

Suggested Prerequisites

Configure UNIX file systems (UFS)

Configure environmental variables

Use basic OpenBoot commands

### **Course Objectives**

Administer the Solaris Volume Manager software by using command-line programs and the Enhanced Storage tool

Administer the Solaris Volume Manager software state databases

Create and administer simple, striped, concatenated, and mirrored volumes

Create volume structures using both hard and soft partitions

Verify the status of the Solaris Volume Manager software volumes and state databases

Create and administer the Solaris Volume Manager software file systems

Replace failed volume components

Replace a failed disk

Describe the features of the Solaris Volume Manager software disksets

**EZY Intellect Pte. Ltd.,**

**#1 Changi North Street 1, Singapore – 498789. [www.ezyintellect.com](http://www.ezyintellect.com)**

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## Course Topics

### Introduction to Managing Data

- Describe the advantages of virtual disk management
- Describe RAID technology standards and terminology
- Describe the appropriate use of each supported RAID level
- Optimize system configurations for each supported RAID level

### Introduction to the Solaris Volume Manager Software

- Describe the upgrade process for the Solaris 10 OS
- Perform basic Solaris Management Console operations
- Perform basic Enhanced Storage tool operations
- Describe state database features
- Initialize the Solaris Volume Manager software

### Administer the State Database

- Describe the state database consensus algorithm
- Describe state database best practices
- Describe the Solaris Volume Manager software configuration files
- Analyze state database status flags
- Add state database replicas
- Recover from state database failures

### Administer Concatenated and Striped Volumes

- Describe concatenated and striped volume best practices
- Describe logical volume naming conventions
- Use the metainit command to create non-redundant volumes
- Use the md.tab file to create non-redundant volumes
- Use the Enhanced Storage tool to create non-redundant volumes
- Display volume properties and status
- Add file systems to new volumes
- Create soft partitions

### Administer Mirrored Volumes and Hot Spares

- Describe mirrored volume characteristics and best practices
- Describe optimized mirror resynchronization
- Describe mirrored volume read, write, and synchronization policies
- Use the metainit command to create mirrored volumes

- Configure hot spares for mirrored volumes
- Use the Enhanced Storage tool to create mirrored volumes
- Mirror existing file systems and the system boot disk
- Use soft partitions with mirrored volumes

### **Administer RAID-5 Volumes**

- Describe RAID-5 volume characteristics
- Describe RAID-5 volume best practices
- Create RAID-5 volumes
- Create soft partitions on top of RAID-5 volumes

### **Performing Advanced Operations**

- Modify the mdmonitord daemon error reporting behavior
- Describe using soft partitions with hardware RAID devices
- Describe how to recover from soft disk errors
- Expand existing file systems
- Use the metassist command to perform top-down volume creation
- Un-mirror the system boot disk
- Replace a failed disk drive