

# Oracle - Oracle Flash Storage System: FS1 Administration for SAN R6.x Ed 1

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This Oracle Flash Storage System: FS1 Administration for SAN R6.x Ed 1 training is designed for systems or storage administrators who perform system and storage administration on the Oracle FS Flash Storage System FS1 with Release 6.x. The goal of the course is to provide administrators with the knowledge and skills necessary to perform configuration, administration, and storage provisioning for the Oracle Flash Storage System.

## Learn To:

- Use the Oracle FS System Manager, Oracle MaxMan, and the FS CLI.
- Install and configure Flash Storage Path Manager software.
- Provision SAN Storage and setup data protection.
- Configure storage profiles.
- Monitor and maintain the Oracle FS1 Flash Storage System.
- Upgrade the system software.
- Monitor the system and generate reports.
- Perform CRU replacements.
- Deploy LUNs.
- Understand coverage of the FS1 monitoring and maintenance tools to help with replacement of replaceable units.
- Identify the hardware components and configuration.
- Manage data collection and perform analysis of gathered statistical data.

## Benefits to You

By taking this course, you will gain a better understanding of the system architecture, including: QoS, QoS Plus, RAID, Thin Provisioning, Storage Domains, and Storage Profiles. This course prepares individuals responsible for the storage and system administration of the Oracle FS1 Flash Storage System to do so successfully.

## Required Prerequisites

Before enrolling in this course, you should have knowledge and experience with SAN concepts, familiarity with RAID, plus system administration experience with Oracle Linux, Oracle Solaris, Microsoft Windows Server platforms, and networking. Experience installing and maintaining complex hardware systems is highly recommended.

## Please Note

This course covers the FS1-2 system common features, functionality, components, architecture, monitoring, and basic maintenance procedures. The Oracle Flash Storage System (FS1-2) is an Enterprise-Grade storage system designed to maximize the power of flash and the economics of disk. It is co-engineered for Oracle-on-Oracle, adaptive and anticipatory

storage with rapid learning and highly granular data tiering.

## Skills Gained

- Understand the Oracle Flash Storage System architecture
- Understand the function and purpose of QoS and QoS Plus
- Understand the purpose and application of Storage Domains
- Understand the implementation and use of Thin Provisioning
- Understand the advantages and use of Storage Profiles
- Use the Oracle FS Storage Manager and Oracle MaxMan utilities
- Use the Flash Storage Command-Line Interface
- Configure the basic system settings for an FS1 system
- Install and configure the Flash Storage Path Manager software
- Create and deploy SAN storage
- Configure data protection using Clone LUN
- Create copies of data using Volume Copy
- Understand basic troubleshooting
- Monitor the FS1 system and perform analysis on statistical data
- Collect system logs
- Perform Guided Maintenance to replace customer replaceable units

## Prerequisites

- UNIX administration and Network concepts
- SAN and RAID concepts
- Server and Storage Management experience
- Microsoft Windows Server administration

## Course Details

### oResources and References

- Describe the Oracle Flash Storage System FS1-2
- Identify the Flash Storage System software components
- Understand the purpose of QoS and QoS Plus
- Appreciate the value of Application Profiles
- Explain the function and use of Storage Domains
- Describe the FS1 System building blocks
- Identify the basic management tools for administration of the FS1

### Oracle Flash Storage System Architecture

- Understand in detail the function and of QoS and QoS Plus
- Understand how RAID is implemented on the FS1
- Cite how Thin Provisioning is implemented
- Describe the application of Storage Domains

- Identify use cases for Storage Domains
- Explain how to employ Storage Profiles
- Recognize the value of T10-Protection Information

## **FS1 System Management**

- Access and navigate the FS Web Portal
- Download and install the Oracle FS System Manager
- Navigate the Oracle FS System Manager
- Verify System Status and Configuration
- Modify System Asset Information
- Create and configure an administrative user account
- Configure global system settings
- Understand and use Volume Groups

## **SAN Provisioning**

- Understand the FS System SAN features and topology
- Understand the need for multi-pathing software
- Install Flash Storage Path Manager
- Provision single tiered LUNs
- Provision auto-tiered LUNs
- Convert LUNs from single-to-auto tiered and auto-to-single tiered
- Manage SAN hosts
- Create and manage Clone LUNs

## **FS1-2 System Hardware**

- Understand the FS1 component relationships
- Describe the purpose of each system component
- Describe the relative rack placement of system components
- Understand the difference between the FS1-2 Base and Performance Models
- Differentiate the function of Performance and Capacity Drive Enclosures within the FS1 system design
- Understand how to add Drive Enclosures to the FS1 system
- Recognize the power requirements for the FS1

## **FS1-2 System Monitoring and Maintenance**

- Monitor multiple FS Systems from MaxMan
- Gather system statistics, performance data, and trending information
- Monitor system status and handle alerts
- Configure notifications
- Create, download, and view reports
- Collect system information and generate log bundles
- Understand how to use Guided Maintenance

- Understand how to perform system updates

## Using System Utilities

- Download and extract the Oracle Flash Storage System utilities
  - Access the command-line utilities
  - Execute basic FSCLI commands
  - Download and extract the Oracle FS Statistics Tools
  - Create and download a log bundle
  - Extract statistics from a log bundle
  - Execute basic FS Statistics Tool commands
  - Format statistical data
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