IBM FlashSystem V9000 Storage Implementation

Duration: 4 Days **Course Code: SSFS3G**

Overview:

IBM FlashSystem V9000 is a comprehensive all-flash enterprise storage solution that delivers the full capabilities of IBM FlashCore technology. FlashSystem V9000 offers a rich set of storage virtualization features designed to improve efficiency, management, scalability and flexibility for any storage environments. FlashSystem V9000 delivers industry-leading value to enterprises along three dimensions: Scalable Performance, Enduring Economics, and Agile Integration.
This course focuses on the planning and implementation tasks associated with integrating the FlashSystem V9000 into the storage area network, and facilitate storage application data access independence from storage management functions and requirements.
It also explains how to:
• Centralize storage provisioning to host servers from common storage pools using internal storage and SAN attached external heterogeneous storage. • Improve storage utilization effectiveness using Thin Provisioning and Real-Time Compression • Implement storage tiering and optimization of flash, enterprise or nealine systems usage with Easy Tier. • Facilitate the coexistence and migration of data from non-virtualization to the virtualized environment. • Utilize network-level storage subsystem-independent data replication services to satisfy backup and disaster recovery requirements.

Target Audience:

This lecture and exercise-based course is for individuals who are assessing and/or planning to deploy IBM System Storage networked storage virtualization solutions. Enrollment in this course is not restricted. Typical students may include: Customers Technical IBM personnel Business Partner technical personnel IT consultants and architects

Objectives:

- After completing this course, you should be able to:
- Outline the benefits of implementing an FlashSystem V9000 all-flash storage virtualization solution.
- Differentiate between the FlashSystem V9000 9846-AC3 control enclosure and the 9846-AE2 expansion enclosure models.
- Outline the physical and logical requirements to integrate the FlashSystem V9000 system solution.
- Implement the FlashSystem V9000 GUI and CLI system setup to configure the V9000 all-flash systems.
- Summarize the symmetric virtualization process to convert physical storage into virtual storage resources.
- Implement volume allocations and map volumes to SAN attached host systems.
- Summarize the advanced system management strategies to maintain storage efficiency, enhance storage performance and reliability.
- Employ data migration strategies to the virtualized FlashSystem V9000 system environment.
- Employ administration operations to maintain system ability.

Prerequisites:

Introduction to Storage (SS01G)

Content:

Day 1

- Welcome

Unit 1: IBM FlashSystem V9000 Introduction

Unit 2: Emergence of flash storage

Unit 3: IBM FlashCore Technology

Unit 4: IBM FlashSystem V9000 hardware architecture

Unit 5: FlashSystem V9000 installation and configuration

Exercise 00: Lab environment overview

Exercise 01: System initial configuration with Service Assistant

Exercise 02: FlashSystem V9000 System Setup

Exercise 03: System user authentication

Exercise 04: Provision internal storage

Day 2

- Unit 6: FlashSystem V9000 storage provisioning

Unit 7: FlashSystem V9000 host and volume administration

Unit 8: FlashSystem V9000 advanced features

Exercise 05: Managing external storage resources

Exercise 06: Host definitions and volume allocations

Exercise 07: Access V9000 storage from host servers

Exercise 08: Thin Provision and Volume Mirroring

Exercise 09: Easy Tier Hybrid pool implementation

Day 3

- Unit 9: Spectrum Virtualize data migration

Unit 10: Spectrum Virtualize Copy Services

Exercise 10: V9000 data pool migration

Exercise 11: Migrate existing data with Import Wizard GUI

Exercise 12: Migrate existing data with Migration Wizard

Exercise 13: Migrate existing data with Import Wizard CLI

Day 4

- Unit 11: FlashSystem V9000 administration management

Exercise 14: Real-time Compression and IBM Comprestimator

Exercise 15: FlashCopy and consistency groups

Exercise 16: FlashCopy Snapshot monitoring user roles and access

Exercise 17: Easy Tier and STAT analysis

Class Review and Evaluation

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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