



## IBM FlashSystem V9000 Storage Implementation Information

<b>Length:</b>	32.0 Hours
<b>Ref:</b>	SSFS3G
<b>Delivery method:</b>	Classroom
<b>Price:</b>	AUD

### 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.

### Public

This lecture and exercise-based course is for individuals who are assessing and/or planning to deploy IBM System Storage networked storage virtualization solutions. Typical students may include:

- Customers
- Technical IBM personnel
- Business Partner technical personnel
- IT consultants and architects

### Prerequisites

- An understanding of the basic concepts of open svstems disk storage svstem and I/O operations - we

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recommend the following:

- Foundations of Storage (*SS00DG*) or
- Introduction to Storage (*SS01G*) and
- IBM Flash Storage Fundamentals (*SSFS1G* / *SSFS1WG*)

## Topics

### 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

Unit 6: IBM Spectrum Virtualize RAID protection

Exercise 0: Lab environment overview

Exercise 1: System user authentication

Exercise 2: Provisioning internal storage

### Day 2

Unit 7: FlashSystem V9000 storage provisioning

Unit 8: IBM Spectrum Virtualize host integration

Unit 9: IBM Spectrum Virtualize volume allocation

Unit 10: IBM Spectrum Virtualize data reduction technologies

Unit 11: IBM Spectrum Virtualize Easy Tier

Exercise 3: Managing external storage resources

Exercise 4: Windows host definitions and volume allocations

Exercise 5: AIX host definitions and volume allocations

Exercise 6: Linux host definitions and volume allocations

Exercise 7: Thin Provision and Volume Mirroring

Exercise 8: Easy Tier Hybrid pool implementation

### Day 3

Unit 12: IBM Spectrum Virtualize data migration

Unit 13: IBM Spectrum Virtualize FlashCopy and Consistency groups

Unit 14: IBM Spectrum Virtualize Transparent Cloud Tiering

Exercise 9: Easy Tier and STAT analysis

Exercise 10: V9000 data pool migration

Exercise 11: Migrate existing data with Import Wizard GUI

Exercise 12: Migrate existing data with Migration Wizard

## Day 4

Unit 11: IBM Spectrum Virtualize remote data replication

Unit 16: IBM Spectrum Virtualize administration management

Exercise 13: Migrate existing data with Import Wizard CLI

Exercise 14: Real-time Compression and IBM Comprestimator

Exercise 15: FlashCopy and consistency groups

Exercise 16: FlashCopy snapshot monitoring user roles and access

Exercise 19: Snapshot to the Cloud

Class review and evaluation

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