

## SAN Volume Controller (SVC) Planning and Implementation Workshop

Duration: 4 Days Course Code: SNV1G

### Overview:

This course is designed to leverage SAN storage connectivity by integrating a layer of intelligence in virtualization. The SAN Volume Controller (SVC) facilitates storage application data access independence from storage management functions and requirements. This focus is on planning and implementation tasks associated with integrating the SVC into the storage area network.

It also explains how to: Centralize storage provisioning to host servers from common storage pools. Improve storage optimization and efficiency through Thin Provisioning, Data Reduction and Compression. Implement storage tiering and optimize flash drives and storage usage with Easy Tier. Facilitate the coexistence and migration of data from non-virtualized to the virtualized environment. Utilize network-level storage subsystem-independent data replication services to satisfy backup and disaster recovery requirement.

This course consists of several independent modules. The modules, including the lab exercises, stand on their own and do not depend on any other content.

### Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

### Target Audience:

Individuals who are assessing and/or planning to deploy storage network virtualization solutions

### Objectives:

- After this course participants should be able to:
- Distinguish the concepts of IBM Spectrum virtualization
- Recall the history for IBM SAN Volume Controller
- Classify the characteristics and components of the IBM SAN Volume Controller system and SAS attached expansion enclosures
- Outline setups required to integrate an SVC system solution
- Summarize the SVC systems' ability to scale for capacity and performance
- Summarize the virtualization process converting physical storage space into virtual resources
- Recall the process to create host access storage on an SVC system
- Differentiate the advanced software features designed to simplify data management, reclaim storage space, and preserve storage investments
- Differentiate methods in which to migrate data to and from the virtualized system environment
- Summarize the methods of remote data replications to improve availability and support for disaster recovery
- Employ administrative operations to manage, monitor, and troubleshoot the system environment
- Summarize the characteristics of IBM Storage Insights' ability to identify, troubleshoot and minimize potential system downtime
- Summarize 3-Site Replication and Safeguarded Copy

### Prerequisites:

You should complete SS01G/SS01DG: Introduction to Storage or have equivalent experience

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## Content:

### Day 1

- Unit 1: Introduction to IBM SAN Volume Controller
- Unit 2: IBM SAN Volume Controller Hardware Architecture
- Unit 3: IBM SVC SAS-Attached Storage
- Unit 4: IBM SVC System Scaling
- Unit 5: IBM SVC System Installation and Management Access
- Exercise 0: Lab environment overview
- Exercise 1: System user authentication

### Day 2

- Unit 6: IBM Spectrum Virtualize: Storage Provisioning
- Unit 7: IBM Spectrum Virtualize Volume Allocation
- Unit 8: IBM Spectrum Virtualize Host Integration
- Unit 9: IBM Spectrum Virtualize Data Reduction Technologies
- Exercise 2: Manage external storage resources
- Exercise 3: Provision external storage resources
- Exercise 4: Windows host definitions and volume allocations
- Exercise 5: AIX host definitions and volume allocations
- Exercise 6: iSCSI host definitions and volume allocations
- Exercise 7: Thin Provisioning and Volume Mirroring

### Day 3

- Unit 10: IBM Spectrum Virtualize Easy Tier
- Unit 11: IBM Spectrum Virtualize Data Migration
- Unit 12: IBM Spectrum Virtualize FlashCopy and Consistency Groups
- Unit 13: IBM Spectrum Virtualize Remote Data Mirroring
- Exercise 8: Data pool migration
- Exercise 9: Migrate existing data with Import Wizard
- Exercise 10: Migrate existing data with Migration Wizard
- Exercise 11: Migrate existing data with Import Wizard CLI
- Exercise 12: System scripting

### Day 4

- Unit 14: IBM Spectrum Virtualize Administration Management
- Unit 15: IBM Storage Insights Unit 16: IBM Spectrum Virtualize 3-Site Replication
- Unit 17: IBM Spectrum Virtualize Safeguarded Copy
- Exercise 13: IBM Real-time Compression and IBM Comprestimator
- Exercise 14: FlashCopy and consistency groups
- Exercise 15: Volume expansion
- Exercise 16: Monitoring user roles and access

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## Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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