

Course Code: SNV1G

Course Title: SAN Volume Controller (SVC) Planning and Implementation Workshop

## Description:

Plan and implement IBM SAN Volume Controller in your data center!

After completing this course, you 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

## Agenda:

- 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
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- 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
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- 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

## **Objectives:**

- Distinguish the concepts of IBM Spectrum virtualization
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## **Prerequisites:**

**Duration:**

32 Hrs

**Topics:**

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**Audience:**

This intermediate lecture and exercise-based course is for individuals who are assessing and/or planning to deploy networked storage virtualization solutions.