

SNV1G

SAN Volume Controller (SVC) Planning and Implementation Workshop

Durata: 4 gg

Descrizione

This course is designed to leverage SAN storage connectivity by integrating a layer of intelligence or virtualization, the SAN Volume Controller (SVC) to facilitate storage application data access independence from storage management functions and requirements. The 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.
- Facilitate the coexistence and migration of data from non-virtualized to the virtualized environment.
- Improve storage utilization effectiveness using Thin Provisioning and Real-time Compression.
- Implement storage tiering and optimize solid state drives (SSDs) or flash systems usage with Easy Tier.
- Utilize network-level storage subsystem-independent data replication services to satisfy backup and disaster recovery requirements.

Objectives:After completion of this course, you should be able to:

- Outline the benefit of implementing an SAN Volume Controller (SVC) storage virtualization solution
- Differentiate between the SVC 2145-DH8 model and the previous generation SVC 2145 models
- Outline steps required to integrate the SVC system solution
- Implement zoning policies for device access between the SVC, native disk storage, and host servers
- Implement the SVC GUI and CLI management operations to configure, monitor, and manage the SVC systems
- Identify issues related to coexistence between the SVC and native disk storage access across host servers
- Migrate existing data to the virtualized SVC system environment
- Implement storage efficiency solutions to maintain data growth, enhance storage performance and reliability
- Apply advanced system management strategies to provide high availability
- Employ administrative operations to maintain system ability

A chi è rivolto?

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

Prerequisiti

The following courses are required prior to this class:

- Introduction to Storage (SS01G)
- Storage Area Networking - Fundamentals (SN71G or SN71SG)
- An understanding of the concepts of open systems disk storage systems and I/O operations

Contenuti

Day 1

- Welcome
- Unit 1: Introduction to IBM SAN Volume Controller
- Unit 2: SVC hardware architecture
- Unit 3: SVC planning and zoning requirements
- Unit 4: SVC cluster initialization and user authentication
 - o Exercise 0: Lab environment overview
 - o Exercise 1: SVC system initialization
 - o Exercise 2: SVC system configuration
 - o Exercise 3: Examine back-end storage system

Day 2

- Review
- Unit 5: SVC storage provisioning
- Unit 6: SVC host access
 - o Exercise 4: Storage provisioning
 - o Exercise 5: Access SVC storage from Windows and AIX
- Unit 7: Spectrum Virtualize advanced features
 - o Exercise 6: Thin Provisioning and Volume Mirroring
 - o Exercise 7: Storage access and SDD path selection

Day 3

- Review
- Unit 8: Spectrum Virtualize data migration
 - o Exercise 8: SVC data migration
 - o Exercise 9: Migrate existing data: Migration Wizard
 - o Exercise 10: Migrate existing data with Import Wizard GUI
 - o Exercise 11: Migrate existing data with Import Wizard CLI
- Unit 9: Spectrum Virtualize Copy Services

Day 4

- Review
 - o Exercise 12: SVC scripting and I/O group modification
 - o Exercise 13: Real-time Compression and the IBM Comprestimator
- Unit 10: SVC administration management
 - o Exercise 14: SVC FlashCopy and consistency groups
 - o Exercise 15: Assign user roles and access
- Class Review and Evaluation