

PowerStore Administration and Replication

OEM: Dell EMC • Code: ESSTGS08346



COURSE DESCRIPTION

Effective management of the PowerStore storage appliance enables organizations to achieve faster ROI. This course provides the knowledge and necessary skills to perform post-installation and day to-day PowerStore administration tasks, including system administration, storage provisioning, storage resource access, and performance features. The course also covers storage efficiency, data protection, and mobility features, as well as replication concepts and techniques.

AUDIENCE PROFILE

- This course is intended for professionals positioning, designing, deploying, managing, and supporting a solution using PowerStore systems.

PREREQUISITES

- To complete this course, participants must possess knowledge of:
- Hardware concepts and technologies used in customer environments, such as compute nodes, servers, network, and basic storage system infrastructures
- Software technologies used in customer environments, such as end-user applications, databases, operating systems
- Ethernet and TCP/IP networking, including switch management, VLANs, IP addressing, and routing
- Basic Microsoft Windows user, file, and domain administration
- Basic Unix/Linux user and file management
- Fiber Channel Storage Area Networks, including zoning, WWNs, LUNs, and masking
- Basic backup and recovery terms and techniques

COURSE OBJECTIVES

By the end of this course, participants will be able to:

- Upon successful completion of this course, participants should be able to:
- Add, manage, and remove PowerStore users
- Attach, edit, and remove hosts
- Create and manage volumes and volume groups
- Migrate volumes

- Configure and manage local data protection, data efficiency, and data encryption
- Create and modify replication policies and rules
- Manage replication operations, including failover, synchronization, pause, and resume
- Configure and administer metro volumes
- Integrate PowerStore with VMware SRM
- Troubleshoot vVol replication

COURSE OUTLINE

Module 1: User Management

- User management
- Managing PowerStore user
- Adding, managing, and removing PowerStore users

Module 2: Host Management

- Manage hosts and host groups
- Attaching, editing, and removing hosts

Module 3: Volume Management

- Manage volumes and volume groups
- Creating and managing volumes and volume groups
- Migrating volumes

Module 4: Data Protection and Efficiency

- Local data protection
- Data efficiency in PowerStore
- Data encryption
- Configure and manage local data protection, data efficiency, and data encryption

Module 5: Replication

- Replication concepts and techniques
- Configure replication
- Replication setup - workflow
- Tag ports for replication
- Replication data network
- Create a remote system connection
- Create a protection policy to a volume
- Assign the protection policy to a volume
- Verify the inbound replication details and inbound volumes
- Verify contents of inbound replication volume

Module 6: Block Volume Replication

- Manage replication, failover, planned failover, synchronization, pause and resume, and remove
- DR failover test

Module 7: NAS Server Replication

- NAS server replication
- Async replication for NAS servers
- Async replication requirements
- Configure file mobility network
- Create remote system
- Replication operations
- Modify destination NAS server
- Clone destination NAS server

Module 8: vVol Asynchronous Replication

- vVol asynchronous replication
- PowerStore integration with SRM
- PowerStore configuration requirements for vVol replication
- Troubleshooting vVol replication

Module 9: Metro Volumes

- Configure metro volumes
- PowerStore metro volume introduction
- Metro volume operations
- Administer metro volume states

DELIVERY NOTE

- Practical experience is included throughout the course.
- In addition to lecture and demonstrations, this course includes labs designed to allow practical experience for the participant.