Szkolenie: HPE

Managing HPE 3PAR StoreServ II: Optimization and Remote Replication

Cel szkolenia:

The Managing HPE 3PAR StoreServ II course is designed for the experienced HPE 3PAR administrator. The goal of the class is to acquaint the 3PAR administrator with additional topics and features of the HPE 3PAR array. The class is intended to be a follow-up to the Managing HPE 3PAR StoreServ I course.

At the conclusion of this course the student should be able to:

- Work with Dynamic Optimization to changevolumes characteristics (media type, raid level, etc.)
- Work with Adaptive Optimization toimplement virtual volume tiering to save storage costs
- Work with Priority Optimization to prioritize higher priority workloads over lower priority workloads
- Use Remote Copy to replicate data between arrays
- Understand the Peer Persistence high availability feature when used in conjunction with Remote Copy

Audience:

HPE 3PAR administrators who desire training on basic concepts and best practices needed to administer the array.

Plan szkolenia:

- Dynamic Optimization
  - Introduction to the Dynamic Optimization feature and its benefits: changing raid levels, media types and set sizes using DO
  - Dynamic Optimization use cases: cost, availability, and performance
  - Using SSMC and the CLI to tune a volume’s user space and copy space
  - Performing a DO tune and converting a volume simultaneously
  - Dynamic Optimization troubleshooting: performing a Restart and Rollback
- Adaptive Optimization
  - Introduction to the Adaptive Optimization feature and using AO to balance performance and cost
  - Dynamic Optimization vs. Adaptive Optimization
  - Components of AO: the 128MG region, region movement, region analysis

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- AO sizing goals and the AO algorithm
- Configuring AO and managing AO using the SSMC GUI and the CLI
- Monitoring AO and looking at AO effectiveness
- AO latency thresholds
- AO best practices
- AO reports in SSMC

- Priority Optimization
  - Introduction to Priority Optimization and Quality of Service implementation
  - Priority Optimization use cases
  - Priority Optimization: how it works
  - Priority Optimization configuration using SSMC and the CLI
  - Priority Optimization using Priorities and the System Busy level
  - Using Latency Goals with Priority Optimization
  - Performance considerations and Priority Optimization
  - Priority Optimization monitoring using SSMC and CLI commands
- Remote Copy
  - Introduction to replication principles and Remote Copy
  - Replication using RCIP and RCFC protocols
  - Replication and thin provisioning, dedup, and compression
  - Remote copy groups and data integrity
  - Remote copy modes: Synchronous, Periodic Asynchronous, and Async Streaming
  - Replication using Remote Copy between three arrays using
- Synchronous Long Distance modes
  - Remote Copy configurations: One-to-Many, Many-to-One, and M-to-N
  - Remote Copy failure scenarios
  - Failing over a remote copy group
  - Remote copy configuration and administration using SSMC and the CLI
- Peer Persistence
  - Introduction to Peer Persistence and using Peer Persistence with Remote Copy
  - Using Peer Persistence for disaster tolerant data and load balancing
  - Performing an Automatic Transparent failover using Quorum Witness or a Manual Transparent failover
  - Quorum Witness details and requirements
  - Failover scenarios with Peer Persistence
  - Peer Persistence path management
  - 3DC (3 Data Center) Peer Persistence

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- Peer Persistence vs. Synchronous Long Distance
- Storage Federation with Peer Motion
  - Data Migration concepts using Peer Motion
  - Bi-directional migration using Storage Federation
  - Migration of data using Peer Motion using SSMC
  - Storage Federation use cases and features
  - Storage Federation supported configurations
  - Migration of data using the PMU CLIRequirements
  - An understanding of general storageconcepts
  - Successful completion of the Managing HPE3PAR StoreServ I course
  - Operator level functionality in a Windows environment

Poziom trudności



Certyfikaty:

The participants will obtain certificates signed by HPE (course completion).

Prowadzący:

Authorized HPE Trainer

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