Szkolenie: HPE

HPE XP8 Storage Array Administration and Configuration

Cel szkolenia:

This course introduces students to the HPE XP8 array terminology, function, architecture, and configuration. Students get hands-on practice with LUN and volume management, data replication, cache partitioning, thin provisioning, auto LUN, Performance Monitor, and Performance Advisor. This course is 50% lecture and 50% hands-on labs.

Course objectives

Upon completion of this course, students will be able to:

- Understand the hardware architecture of the HPE XP8 storage array
- Use the HPE Intelligent Storage Manager user interface to view and manage the HPE XP8 storage array
- Use the RAID Manager command line to manage the array configuration
- Set the fibre port topology for the HPE XP8 ports
- Configure LUNs
- Use the Volume Manager to create custom size volumes
- Understand how to implement LUN security
- Handle multiple paths to a LUN
- Understand HPE XP8 replication products: HPE XP8 Business Copy, HPE Data Protection Manager, and HPE XP8 Fast Snap
- Understand how to use external storage

Audience

This course is for storage administrators responsible for the configuration and management of HPE XP8 disk arrays.

Plan szkolenia:

- Module 1: HPE XP8 Array Concepts and Hardware
  - Architecture overview
  - HPE XP8 building blocks
  - Component details

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- Bundled and optional software
- Terminology
- Interoperability

- Module 2: Remote Web Console
  - Management options
  - Web console architecture
  - Web client requirements
  - Web console navigation
- Module 3: HPE XP Command Line Interface
  - Setup RAID Manager
  - Send commands to SVP in-band and out of band
  - Authenticate with SVP
  - List array configuration
- Module 4: Introduction to HPE Intelligent Management Suite and HPE Intelligent Storage Manager
  - HPE Intelligent Management Suite introduction
  - HPE Intelligent Management Suite installation, setup, and upgrade
  - HPE Intelligent Storage Manager features, layout, and setup
  - Architecture
  - GUI navigation
- Module 5: Volume Management
  - Initialize a parity group, preparing it to be added to a pool
  - Create a thin provisioning pool
  - Create thin provisioned volumes (ThP vVOLs)
  - Command line for volume management
  - Securely delete data using Volume Shredder
  - Set LDEV access control using the data retention utility
- Module 6: LUN Management
  - Fibre port management
  - Host groups
  - Host modes
  - Fibre port topology and settings
  - Create LUNs and command devices
  - Command line for LUN management
  - Use of the HPE XPInfo tool
  - Multi-pathing solutions

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- HPE XP and VMware® plug-ins
- Module 7: HPE XP8 Smart Tiers
  - THP Smart Tiers
  - Configure Smart Pools for use with Smart Tiers
  - Capacity expansion enabled FMD pools
- Module 8: Cache Partitioning
  - With and without cache partitions
  - Cache logical partitions (CLPRs)
- Module 9: HPE XP External Storage
  - Overview and features
  - External storage path modes
  - Cache mode
  - Use with cache partitions
  - Configure external ports
  - Configure external volumes
  - Power on and off order
- Module 10: HPE XP8 Advanced Quality of Service (aQoS)
  - Features of aQoS
  - aQoS commands
  - Example of aQoS impact to host IO
- Module 11: HPE XP8 Performance Advisor
  - Product overview
  - Collecting array and host information
  - Management Station: components
  - Host agents and clients
  - Installing and logging on to Performance Advisor
  - Performance Advisor GUI
  - Performance Advisor licensing
  - Configuration data collection
  - Creating charts
  - Generating and scheduling reports
- Module 12: HPE XP8 Business Copy
  - Business Copy terminology
  - Full copy vs. Fast Snap comparison
  - Business Copy operations and states
  - Configuring Business Copy with HPE XP Intelligent Storage Manager

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- Configuring Business Copy with RAID Manager
- Module 13: HPE XP Data Protection Manager
  - Total data protection
  - Application integration
  - Building block and terminology
  - Architecture
  - Concepts
  - Role based access controls
  - Authentication services
  - Licensing
- Module 14: HPE XP Migration (Auto LUN)
  - Tiered storage approach
  - Auto LUN migration
  - Auto LUN tasks
  - Auto LUN migration configuration
  - Best practices
- Module 15: HPE XP8 Fast Snap (Snapshots)
  - Fast Snap overview
  - Fast Snap components
  - Floating snapshots
  - Snapshot states
  - Cascade snapshots
  - Fast Snap clone

Wymagania:

It is useful for students to have knowledge of networks and the storage administration tasks for the operating system being served by the array.

Poziom trudności



Certyfikaty:

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

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Prowadzący:

Authorized HPE Trainer.

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