

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

- 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

- 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

- 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).

Prowadzący:

Authorized HPE Trainer.