

Szkolenie: HPE
HPE XP 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. In addition, we cover the concepts and setup of HPE XP High Availability and Command View Advanced Edition.

Course objectives

- Understand the hardware architecture of the HPE XP8 storage array
- Use the remote web console user interface to manage and view HPE XP8 configuration information
- 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 XP8 Fast Snap, and HPE XP8 Continuous Access
- Understand how to use external storage

Audience

Storage administrators responsible for the configuration and management of HPE XP8 disk arrays.

Plan szkolenia:

- HPE XP8 Array Concepts and Hardware
 - Architecture overview
 - HPE XP8 building blocks
 - Component details
 - Terminology

- Remote Web Console
 - Management options
 - Web console architecture
 - Web client requirements
 - Web console navigation
- HPE Storage Review—Remote Replication
 - Setup RAID Manager
 - Send commands to SVP in-band and out of band
 - Authenticate with SVP
 - List array configuration
- Introduction to HPE Intelligent Storage Manager (ISM)
 - HPE Intelligent Storage Manager features
 - Architecture
 - GUI highlights
 - Logical group concept
- Volume Management
 - Custom volumes
 - Custom volume overview
 - Volume usage
 - Capacity expansion enabled parity groups
 - Command line for volume management
 - Volume Shredder
 - Data retention
- 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 XP8 Thin Provisioning and SMART Tiers
 - What is thin provisioning (THP)?
 - THP operation sequence
 - THP pools

- Subscription limits
- Rebalancing THP pools
- Monitoring pool and THP volume space usage
- THP Smart Tiers
- Capacity expansion enabled FMD pools
- Cache Partitioning
 - Cache Logical Partitions (CLPRs)
- 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
- Performance Monitor and Performance Control (PFC)
 - Data collection
 - Viewing collected data
 - HPE XP QOS Performance Control (PFC)
 - Performance Control RAID Manager commands
- 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
- HPE XP8 Business Copy
 - Business Copy terminology
 - Full copy vs. Fast Snap comparison
 - Business Copy operations and states
 - Configuring Business Copy with RWC

- Configuring Business Copy with RAID Manager
- Auto LUN
 - Tiered storage approach
 - Auto LUN migration
 - Auto LUN tasks
 - Auto LUN migration configuration
- HPE XP8 Fast Snap (Snapshots)
 - Fast Snap overview
 - Fast Snap components
 - Floating snapshots
 - Snapshot states
 - Cascade snapshots
 - Fast Snap clone
- HPE XP8 Continuous Access
 - Continuous Access overview
 - Continuous Access Synchronous overview
 - Fence levels
 - Continuous Access Journal overview
 - CA Journal link requirements
 - 3 Data Center CA model
- HPE XP8 High Availability Concepts
 - HA vs CA Synchronous comparison
 - Virtual DKC (virtual storage machine) concepts
 - HA I/O operation walkthrough
 - HA components
 - HA failure scenarios
 - 3 Data Center HA model
- HPE XP8 High Availability Setup (Lecture Only)
 - Array-to-array connections
 - Setup quorum device
 - Configuring virtual DKC (VSM)
 - Pair creation
 - ALUA configuration
 - HA configuration with HPE Command View Advanced Edition (CVAE)

Wymagania:

Knowledge of networks and the storage administration tasks for the operating system being served by the array is useful.

Poziom trudności



Certyfikaty:

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

Prowadzący:

Authorized HPE Trainer.