Szkolenie: HPE
HPE Primera II: Monitoring and Replication

Cel szkolenia:

This course provides knowledge of the advanced capabilities of the HPE Primera storage arrays, including lower level data reduction features, reporting, monitoring and alerting, QOS, and local and remote replication options. You gain a practical understanding of HPE Primera array capabilities using extensive hands-on lab exercises.

At the end of this course, the learner should be able to:

- Describe the benefits of the data reduction technologies
- Perform space reclamation
- Describe data reduction technologies: deduplication, compression, and data packing
- Perform a data reduction estimation
- Perform an online virtual volume conversion
- Describe System Reporter capabilities
- Use SSMC and the CLI to run reports
- Use the CLI stat commands to look at realtime statistics
- Use HPE Primera app volume sets (AppVVset) in performance context
- Use the SSMC Workload Insights feature for performance reasons to isolate application spikes and trends
- Understand the SSMC Workload Insights concept of a performance score
- Understand the advantages of the Topology Insights feature to pinpoint performance bottlenecks
- Describe basic Primera UI monitoring
- View, interpret, and manage system events and alerts
- Use the checkhealth command for troubleshooting
- Work with alert notifications for System Reporter
- Monitor and manage the event log
- Forward events to syslog server
- Explain SNMP settings and capabilities
- Describe the SMI-S standard, WBEM initiative, and Primera CIM support
- Explain REST API use
- Describe the advantages of Priority Optimization and Quality of Service (QoS)

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ul. Tatarska 5, 30-103 Kraków, tel.: (12) 298 47 77
ul. Postępu 18B, 02-676 Warszawa, tel.: (22) 417 41 70

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- Discuss the performance implications of Priority Optimization
- Administer Priority Optimization
- Monitor the impact of Priority Optimization
- Create a scheduled and immediate snapshot
- Export a snapshot
- Perform a recovery using a snapshot
- Work with a clone
- Describe the key features, benefits, and advantages of Remote Copy
- Explain different types of Remote Copy implementations
- Explain the differences between synchronous and periodic asynchronous replication modes
- Discuss different failure scenarios
- Perform a failover of a Remote Copy group
- Briefly describe data migration and high availability and disaster tolerance solutions

Audience:

Storage administrators who desire additional training on the advanced features of HPE Primera

Plan szkolenia:

- Course Introduction
  - Introduction
  - Course agenda
- Thin Features and Data Reduction
  - Data reduction introduction and overview
  - Zero-detect and thin persistence
  - Space reclamation on Windows, Linux, VMware®
  - Block alignment
  - Thin persistence technology
  - Compaction and overprovisioning
  - Data reduction technologies
  - Deduplication, compression, and data packaging
  - Savings estimation
  - Online virtual volume conversion (dynamic optimization)
- Monitoring and Reporting
  - System Reporter introduction
  - Data retention

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- SSMC System Reporter options
- Types of reports
- Default reports in SSMC
- Report controls
- Report templates
- Creating historical and real time reports
- Scheduling/emailing reports
- CLI reporting
- Performance view
- Analytics and workload Insights
- Application volume sets
- Topology Insights
- On-node monitoring overview

- Events and Alerts
  - Alerts and events overview
  - Managing alerts—SSMC/CLI
  - Managing events—SSMC/CLI
  - Alerts and events tiering
  - Alert spare part notification
  - Syslog support
  - The checkhealth command overview and use
  - Troubleshooting
  - System Reporter performance alerts management
  - SNMP overview
  - SNMP use—MIBs, alert traps
  - SNMP management
  - CIM API overview
  - HPE Primera CIM API
  - About SMI-S
  - CIM standard
  - CIM management
  - REST API overview
  - REST API usage
- Priority Optimization/QoS
  - Introduction and features
  - How does it work

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- Examples
- Configurable parameters and their meaning
- Configuring and managing via SSMC
- Configuring and managing via CLI
- Monitoring via SSMC and CLI
- Summary and best practices

- Snapshots and Clones
  - Snapshot introduction
  - Snapshot use cases
  - How snapshots work
  - Working with a snapshot using SSMC
  - Working with a snapshot using CLI
  - Clone introduction and how it works
  - Working with a clone using SSMC
  - Working with a clone using CLI
- Remote Replication
  - Remote Copy introduction
  - Supported protocols
  - Architecture, features and terminology
  - Replication modes
  - Supported maximums
  - Failure scenarios and failover
  - Remote Copy operations
  - Data migration options overview
  - Peer persistence overview
  - HPE Cluster Extension overview
  - VMware vSphere® Site Recovery Manager overview
- What’s New in HPE Primera
  - Remote Copy
  - HPE Primera Remote Copy feature set updates with 4.2
  - Peer motion and online import
  - Online import utility (OIU 2.4)
  - VMware vVOLs support with HPE Primera
  - SSMC 3.7 enhancements
  - InfoSight update

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Wymagania:

One of the following courses:

- HM9Q5S: HPE Primera I: Management and Connectivity
- HN5B2S: Introduction to HPE Primera storage (with extended eLearning)
- HN5A9S: Introduction to HPE Primera storage

Poziom trudności



Certyfikaty:

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

Prowadzący:

Authorized HPE Trainer.

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