

Szkolenie: HPE
Integrating Veeam with 3PAR, Nimble and StoreOnce

FORMA SZKOLENIA	MATERIAŁY SZKOLENIOWE	CENA	CZAS TRWANIA
Stacjonarne	Tradycyjne	2900 PLN NETTO*	2 dni
Stacjonarne	Tablet CTAB	3500 PLN NETTO*	2 dni
Metoda dlearning	Tradycyjne	2900 PLN NETTO*	2 dni
Metoda dlearning	Tablet CTAB	3500 PLN NETTO*	2 dni

* (+VAT zgodnie z obowiązującą stawką w dniu wystawienia faktury)

LOKALIZACJE

Kraków - ul. Tatarska 5, II piętro, godz. 9:00 - 16:00

Warszawa - ul. Bielska 17, godz. 9:00 - 16:00

Cel szkolenia:

Training goals:

- Describe the core components of Veeam
- List Veeam backup and recovery capabilities
- Describe local and remote replication features of 3PAR and Nimble storage arrays
- Talk about Veeam integrations with HPE storage arrays (3PAR and Nimble), including advantages
- Describe important StoreOnce product concepts and capabilities
- Explain the importance and advantages of deduplication
- Plan, configure and perform Veeam backup and recovery by using HPE storage and backup products
- Configure backup replication

Audience:

Customers, HPE Services field, engineers, call center personnel, presales and channel partners, and other field personnel who provide installation and/or operational support assistance

Plan szkolenia:

- Veeam Introduction and Review

- Core components
 - Backup Proxy
 - Backup server
 - Backup repository
 - Transport modes
 - Direct storage access
 - Virtual appliance mode
 - Network mode
 - Backup modes
 - Backup methods
 - Changed block tracking
 - Basic configuration
 - Backup and backup copy job
 - Replication
 - Recovery Verification
 - Verification
 - On-demand sandbox
- HPE Storage Review
 - Local replication
 - 3PAR snapshot
 - 3PAR clone
 - Nimble SmartSnap
 - Nimble SmartCopies
 - Nimble snapshot
 - Snapshot life cycle
 - Volume collections and schedules
 - Nimble Zero Copy Clones
 - Recovery scenarios using local replication
- HPE Storage Review – Remote Replication
 - Remote replication
 - 3PAR Remote Copy FC-based Remote Copy
 - Native IP-based Remote Copy
 - Remote Copy terminology
 - Replication modes
 - Remote Copy topologies
 - Failure scenarios

- Nimble remote replication
 - Replication topologies
 - Replication components
 - Snapshot replication schedule (based on volume collection)
 - Replication QOS—bandwidth limit
 - How replication works—the basics
 - Volume collection schedules—more information
 - General DR operations
- HPE Storage Integrations Configuration and Features
 - HPE storage integration
 - Common VADP agentless backup process (vStorage API—Data Protection)
 - Storage integration—standard backup
 - Overhead of standard VMFS snapshots
 - Veeam integration with HPE primary storage
 - Use of storage snapshots for better RPO
 - Veeam backup job from HPE primary storage snapshots
 - Storage integration—backup with Veeam snapshot integration
 - Benefit of using hardware snapshots
 - VMware VM-snapshot challenges
 - Storage integration versus traditional approach summary
 - Veeam direct connectivity to HPE primary storage
 - HPE storage integration
 - Backup from HPE storage snapshots
 - 3PAR snapshot orchestration
 - Backup from a peer 3PAR storage snapshot
 - Nimble snapshot orchestration and replication over WAN
 - Backup from Nimble snapshots on the secondary array
 - How to configure snapshot-only jobs
 - Configuring snapshot and backup file in a single job
 - Veeam Explorer, IVMR, Sure-Backup from HPE storage snap
 - Instant VM recovery from HPE storage snapshot
 - Veeam On-Demand Sandbox/DataLabs from HPE storage snapshot
 - Veeam Explorer for storage snapshots
 - Restore application items from storage snapshots
 - Recovery Manager Central enhancements
 - Backup policy including storage snapshots

- Veeam supports 3PAR and Nimble VVOLs for vSphere
- HPE StoreOnce Introduction and Review
 - Basics
 - VTL
 - NAS
 - Catalyst
 - Deduplication
 - Replication
 - Catalyst copy
- Veeam and HPE StoreOnce Integration
 - Veeam and StoreOnce integration components
 - HPE StoreOnce – Veeam basics
 - HPE StoreOnce deployment
 - HPE StoreOnce and Veeam with NAS integration
 - HPE StoreOnce and Veeam—CIFS topologies
 - HPE StoreOnce and Veeam—Catalyst topologies
 - Suggested architectural design
 - Direct backup to StoreOnce Catalyst Store
 - Supports Virtual Synthetic Full
 - Supports IVMR and SureBackup
 - Does not require additional storage and workload
 - Catalyst stores are not exposed to virus activities
 - HPE StoreOnce has enhanced data integrity features
 - Support for deduplicating storage systems
 - HPE StoreOnce and Veeam—additional features and zero complexity
 - Benefit of StoreOnce deduplication for Veeam repositories
 - Multi-streamed write (per VM backup file)
 - StoreOnce—deduplication across VMs and jobs
 - Virtual Synthetic Full—fast full backup with Catalyst
 - Instant VM recovery and HPE StoreOnce
 - SureBackup and StoreOnce
 - Ransomware and data protection (backup)
 - Immunize your backup repository against virus
 - Backup replication
 - Veeam backup replication
 - Option #1—Catalyst-powered Veeam backup replication

- Option #2—traditional Veeam backup replication process
- Veeam and Catalyst over WAN
- Summary
- Data migration from any legacy storage to StoreOnce
- Veeam and StoreOnce best practices summary
- Veeam supported and unsupported features
- HPE and Veeam integration summary

Wymagania:

Before attending this course, students must have:

- Basic VMware vSphere® administration experience
- Basic understanding of iSCSI, fibre channel, backup, and SAN technologies
- Basic Veeam, 3PAR, Nimble, and StoreOnce knowledge

Poziom trudności



Certyfikaty:

After completing the course, participants receive a certificate of completion of course.

Prowadzący:

Authorized Veem Trainer.