



Enterprise Computing Solutions - Education Services

NABÍDKA ŠKOLENÍ

Prosím kontaktujte nás zde

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HPE Storage Solutions, Rev. 20.41

Kód:	DÉLKA:	CENA:
HPE_0001132323	40 Hours (5 DENNÍ)	Kč bez DPH 64,900.00

Description

Školení je vedené v češtině.

This course teaches students how to identify, recommend, and explain HPE Enterprise Storage Solutions architectures and technologies, and translate business requirements into storage solution designs that support applications and data across physical, virtual and cloud environments with a common architecture and converged management. The course also covers designing HPE Backup Solutions including the right Backup, Recovery, and Archive (BURA) strategies for various customer scenarios. The course uses participant centered learning with 30% lecture and 70% hands-on lab exercises.

Toto školení pořádá školicí středisko TD SYNnex Academy

Cíle

After you successfully complete this course, expect to be able to:

Identify, recommend, and explain HPE Enterprise Storage Solutions architectures and technologies.

Translate business requirements into storage solution designs that support applications and data across physical, virtual and cloud environments with a common architecture and converged management.

Explain the HPE Storage Management tools.

Explain HPE 3PAR and Primera OS and configuration.

Explain Nimble storage features.

Explain the fundamentals of virtualization and virtualization management capabilities.

Describe SAN Fabric Topologies, SAN design principles and considerations.

Describe planning a RAID configuration.

Identify Drive I/O and Performance.

Provide an overview of HPE Reference Architectures.

Describe the goals of HPE presales consultants and storage architects.

Explain how to use HPE sizing, planning and ROI tools.

Explain the HPE Storage Management tools

Explain HPE 3PAR and Primera OS and configuration

Explain Nimble storage features

Explain the fundamentals of virtualization and virtualization management capabilities

Describe SAN Fabric Topologies, SAN design principles and considerations.

Describe planning a RAID configuration

Identify Drive I/O and Performance

Provide an overview of HPE Reference Architectures

Describe the goals of HPE presales consultants and storage architects

Explain how to use HPE sizing, planning and ROI tools

Určeno pro

Typical candidates for this course are channel partners, customers, and HPE employees who interpret customer requirements to design, install, configure, and manage HPE storage and backup solutions. The candidate will be able to demonstrate critical-thinking skills required to design, optimize, deploy, manage, and troubleshoot storage solutions.

Vstupní znalosti

The HPE ATP - Hybrid IT Solutions V1 or V2 certification.

Program

- Compare different storage technologies
- File-based storage
- Block-based storage
- Object-based storage
- Comparison
- Describe and evaluate use cases for various disk related technologies
- Interfaces
- Disk (HDD) types and technologies
- Flash-based technologies
- Memory types
- Describe storage related technologies
- Storage virtualization options
- Storage scalability options
- Thin provisioning
- Compression
- Deduplication
- Data migration
- Comparison to traditional approach

Storage architectures and technologies Use-cases

- Identify product and discuss features of:
 - Modular Smart Array (MSA) Nimble Storage
 - 3PAR StoreServ
 - Primera
 - XP (overview only)
 - SimpliVity (overview only)

HPE storage products review Software-defined Storage

Describe SAN transport technologies and components

Transport technologies

Interconnect devices and adapters

StoreFabric portfolio overview

Describe and characterize the different SAN technologies

Used transport protocols

Available features

Zoning

Describe and characterize the different SAN topologies

HPE supported topologies

Redundancy and high availability

Scalability

Advantages and disadvantages

Describe storage presentation to hosts in SAN context

Basic concepts

Storage based presentation

Multi-pathing options and technologies

Describe the data protection terminology

Availability and downtime

RPO and RTO

3-2-1 rule

Disaster Recovery

Describe backup, archiving, and data availability technologies

Malware protection

Archiving concepts

Backup vs archiving

Available technologies and features

Tiering

Security aspects

Data protection aspects

Storage networking architectures and technologies

Data protection

HPE backup solutions— disk

Review the HPE StoreOnce product		
Overview		
Portfolio and Positioning		
Features and functions		
Emulation types		
Networking		
Explain the features of Deduplication technology in backup context		
Deduplication: What is it?		
Deduplication technology types		
Key Benefits of Data Deduplication		
How hash based chunking works		
Target/server/source-side deduplication		
How deduplication integrates into backup software		
Explain the features of Catalyst technology		
Overview		
StoreOnce Catalyst features and benefits		
StoreOnce Integrations	HPE backup solutions–tape	HPE Recovery Manager Central Software
		Overview
		Building blocks
		Features overview
		Basic integration with HPE products
		Veeam Backup & Replication
		Overview
		Building blocks
		Features overview
Describe HPE StoreEver Tape solutions		
HPE StoreEver Tape portfolio		
LTO Ultrium		
Management		
Features		
Linear Tape File System		
HPE Library and Tape Tools		
Enterprise Secure Key Manager	Backup and archiving software solutions– part 1	Basic integration with HPE products
	Micro Focus Data Protector	
	Overview	
	Building blocks	
	Features overview	
	Basic integration with HPE products	
	Commvault Complete Backup & Recovery	
	Overview	
	Building blocks	
	Features overview	
	Basic integration with HPE products	
	SimpliVity protection and integration	
	iTernity Compliant Archive Software (iCAS)	
Backup and archiving software solutions– part 2	Cloud offerings and integrations	
	Infrastructure monitoring protocols and standards review	
	SNMP, SMI-S and REST API	
	Storage and backup products monitoring options	
	Modular Smart Array (MSA)	
	Nimble Storage	
	3PAR StoreServ / Primera	
	StoreOnce	
	SAN Monitoring	
	B, C and M -Series	
	Insight Remote Support review	
Advanced administering and monitoring	InfoSight	
Staging an effective storage consulting engagement		
Describe the goals of HPE presales consultants and storage architects		
Identify Consultative selling	Explain how to use HPE sizing and planning tools during a consulting engagement	
Calculate Payback period and ROI		
Use Storage Assessment Foundry		
List the available return on investment and total cost of ownership tools		
Direct others to HPE resources online		
List steps for a Proof of Concept test		
List HPE storage services		
HPE Partner Ready Delivery Services program		
	Position the different HPE Storage arrays	
	Storage planning and sizing tools	
	Array planning and sizing	
	Describe SAN design principles and considerations	
Planning and designing HPE storage solutions	Talk about licensing	

- Identify data tiering and retention
- List challenges in Data Protection
- Discovering data protection opportunities
- Not all data are equal: Classifying information
- Solution and categorization
- Recovery operations
- The effectiveness of recovery
- Steps in disaster recovery
- Backup strategy planning
- Protection and recovery methods
- Data protection and retention challenges
- Delivering agility and efficiency
- Present HPE backup and restore strategy
- Backup and recovery strategy planning
- Understanding the factors that influence the backup solution
- Preparing the backup design
- Backup topologies

Planning and designing HPEBURA solutions—theory Zoning for backup

- Perform StoreOnce planning and sizing
- HPE StoreOnce backup device emulation options
- HPE StoreOnce performance and sizing guidelines
- Networking
- Resource prerequisites for HPE StoreOnce VSA
- Sizing considerations
- Reference documents and sizing tools
- Emulation options
- Performance and sizing guidelines
- NinjaProtected Tool and Get Protected Guarantee
- What is the NinjaProtected Tool?
- What does it do? What does it deliver?
- Why use the NinjaProtected Tool?
- Perform RMC sizing
- Sizing considerations
- Deployment and integrations
- Best Practices

Planning and designing HPEBURA solutions— practice Discuss licensing

- Upgrade HPE 3PAR StoreServ and Primera system
- Nimble Timeless Storage programUpgrade HPE Nimble array
- Describe Nimble Scale-to-Fit options
- Upgrade HPE StoreOnce system
- Tune HPE 3PAR StoreServ and Primera
- Optimize HPE Storage systems
- Optimize StoreOnceDeduplication ratio
- Update HPE 3PAR and Primera OS
- Update HPE 3PAR Service processor

Upgrading, optimizing, and tuning HPE storage and BURA solutions Optimize HPE Backup systems and backup jobs

Termíny školení

Termíny školení na vyžádání, [kontaktujte nás prosím](#)

Dodatečné informace

Školení je možné zajistit na míru. [Kontaktujte nás pro bližší informace.](#)