



Enterprise Computing Solutions - Education Services

NABÍDKA ŠKOLENÍ

Prosím kontaktujte nás zde

Arrow ECS, a.s., 28. října 3390/111a, 702 00 Ostrava

Email: training.ecs.cz@arrow.com
Phone: +420 597 488 811



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.](#)