

HPE OneView Administration

Duration: 3 Days Course Code: H4C04S

Overview:

HPE OneView is an integrated converged management platform that automates tasks and streamlines processes, delivering the entire lifecycle management for HPE Composable Infrastructure. HPE OneView provides software-defined intelligence across the entire HPE family of infrastructure solutions—from providing embedded management in HPE Synergy to delivering attributes of composability in HPE BladeSystem c7000, HPE ProLiant DL/ML/DX, HPE Superdome Flex, HPE 3PAR StoreServ and HPE StoreVirtual VSA, HPE Nimble Storage, HPE Virtual Connect, and HPE Apollo (XL). This instructor-led course is essential training for system, network, and storage administrators using HPE OneView and for system architects implementing HPE OneView.

Target Audience:

System, network, and storage administrators, and consultants who manage and monitor an HPE environment and for system architects anticipating the implementation of HPE OneView.

Objectives:

- This course equips students with the skills and knowledge to:
 - Use HPE OneView to manage and maintain firmware
 - Implement server and networking configurations
 - Monitor the data center
 - Respond to issues
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Prerequisites:

Basic system and network administration

Content:

Module 1: HPE OneView Overview

- Identify the basic parts and advantages of composability
- Describe the HPE OneView purpose in HPE BladeSystem c-Class environments
- Recognize the different HPE OneView resource types
- Understand the role of the HPE OneView domain
- Locate additional training and documentation

Module 2: Configuring Networks in HPE OneView

- Understand uplink and downlink ports
- Define HPE OneView network related resources: logical interconnect groups, enclosure groups, networks
- Configure network sets and uplink sets
- Differentiate between a logical enclosure and a logical interconnect
- Explain multiple logical interconnects per enclosure
- Understand bulk network operations
- Configure the active/active and active/standby network configurations

Module 3: Working with Advanced Network Functions in HPE OneView

- Define the maximum number of networks usable in HPE OneView
- Understand LACP timer selection option
- Differentiate private vs non-private HPE OneView networks
- Explain LLDP and TLV support in HPE OneView
- Understand pause flood and flow control
- Explain Quality of Service capabilities (Appendix)

Module 4: Configuring Storage in HPE OneView

- Implement different storage configuration scenarios
- Configure storage resources in HPE OneView

– Import SAN Managers to HPE OneView

– Associate SAN fabrics

– Add storage systems and already created storage pools

– Create and add volumes and volume templates

Module 6: Upgrading Firmware in HPE OneView

- Describe new firmware features
- Utilize upgrade paths
- Utilize Update Readiness Checker
- Understand firmware repositories
- Utilize SPP options for obtaining and creating SPPs
- Examine installed firmware
- Upgrade firmware on OAs
- Manage enclosure firmware
- Manage HPE Virtual Connect firmware
- Utilize SUT and iSUT
- Manage server firmware

Module 7: Building Server Profiles in HPE OneView

- Explain new profile features
- Describe HPE OneView server profile management
- Explain the server profile templates concept
- Identify and configure the various attributes of HPE OneView server profiles
- Configure profile boot from SAN
- Understand the server and VC port configuration process
- Work with port speed controls and bursting
- Access server iLOs

Module 8: Remote Monitoring and Support

- Describe the benefits of HPE OneView Remote Support
- Explain how to enable and disable HPE OneView Remote Support
- Find more info on HPE OneView Remote Support
- Describe maintenance mode
- Describe InfoSight tech preview
- Describe HPE OneView Global Dashboard and where to find more info

Module 9: HPE OneView Appliance Management

- Describe the relationship between iLO and HPE OneView, and how it can be used to troubleshoot
- Reset a lost administrator password
- Multi-home an appliance
- Access and review the activity feed
- Utilize Smart Search
- Pin the main menu
- Customize the HPE OneView dashboard
- Backup and restore the HPE OneView appliance
- Capture HPE OneView support dumps
- Access HPE OneView dashboard and understand customization capabilities

Lab 03: Configuring HPE OneView Storage

- Connect HPE OneView to a HPE 3PAR storage system
- Associate fiber channel networks with the managed SAN networks
- Create volume templates and new volumes
- Connect HPE OneView to an HPE Nimble Storage system

Lab 04: Configuring Logical Interconnect Groups

- Create a logical interconnect group
- Configure logical interconnect group settings
- Create shared uplink sets

Lab 05: HPE OneView Enclosure Management

- Add enclosures to HPE OneView management
- Add HPE ProLiant DL servers to HPE OneView management
- Examine added enclosure resources
- Use reports
- Make LIG template changes

Lab 06: HPE OneView Server Profile Management

- Create server profile templates
- Create server profiles based on a server profile template
- Assign server profiles to supported servers
- Move and copy server profiles between servers
- Create an additional server profile and add a HPE Nimble Storage system volume

Lab 07: Accessing Controls and Alerts in HPE OneView

- Configure scopes
- Understand alerts and monitoring
- View activity, alerts and tasks
- Configure the email notifications of alert messages
- Enable maintenance mode for server hardware

Lab 08: Maintaining the HPE OneView Appliance

- Add and remove a dashboard panel
- Manage support dumps
- Manage security options
- Backup the appliance

Lab 09: Exploring the HPE OneView Global Dashboard

– Work with storage snapshots

- Troubleshoot storage issues

Module 5: Discovering Hardware to HPE OneView

- Understand HPE OneView firmware requirements for managed and monitored devices
- Add an enclosure for management
- Add an enclosure in monitored mode
- Migrate an HPE Virtual Connect domain to HPE OneView
- Revert an enclosure back to VCM
- Understand OA and iLO management
- Describe server hardware types
- Understand purpose and use of refresh
- How to remove hardware

- Review HPE OneView health and utilization data for devices
- Utilize facilities management
- Access and review Ethernet and SAN statistics
- Access HPE OneView reports and firmware compliance report

Module 10: Licensing HPE OneView

- Follow best practice licensing in standalone VM-based HPE OneView
- Follow best practice licensing in HPE Synergybased HPE OneView

Module 11: HPE OneView Security and Maintenance

- Review the HPE OneView security features and functions
- Administer HPE OneView user accounts and roles (RBAC)
- Implement scope based access control (SBAC)
- Introduce labels
- Enable or disable services access
- Configure Active Directory/LDAP integration
- Understand HPE OneView certificate management
- Implement and configure two-factor authentication using CAC/PIV
- Understand SNMP and SNMP v3 support and alert forwarding
- Use an audit log

Module 12: Accessing HPE OneView by Using the REST API

- Understand the basic Representational State Transfer (REST) API concepts and programming style
- Use the REST application programming interface (API) for basic HPE OneView operations
- List basic operations you can perform with the REST API
- Access useful scripting tools and resources
- Use a browser with REST plugins to handle REST API requests and responses.
- Appendix: HPE OneView REST API use case examples

Detailed lab outline

Lab 01: Configuring HPE OneView

- Review the HPE OneView guided setup feature
- Generate and download a backup file
- Add a user
- Add a firmware bundle (Service Pack for

- Setup the HPE OneView Global Dashboard
- Add an HPE OneView appliance for monitoring
- Explore the HPE OneView Global Dashboard user interface and customization
- Monitor the appliances' health and obtain various reports

Lab 10: Accessing the HPE OneView REST API

- Understand the basic REST API concepts and programming style
- Use a browser development extensions or Postman app to handle REST API requests and responses

ProLiant—SPP) to the appliance's
firmware

- Explore address ranges

Lab 02: Configuring HPE OneView Networks

- SAN Manager
- Ethernet networks
- Fiber channel networks
- Storage area networks
- Network sets

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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