

HPE Digital Learner Server Management Content Pack

HPE Content Pack number	CP002
Content Pack length	25 Hours
Content Pack category	Category 1
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This content pack provides information and skills related to implementing and managing HPE ProLiant, HPE BladeSystem, and Apollo servers using a suite of tools and utilities—from single server management, using embedded server management tools and iLO to managing the data center using HPE OneView.

Why HPE Education Services?

- IDC MarketScape leader 5 years running for IT education and training*
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Content Pack Objectives:

By the end of this content pack, you should be able to meet the following objectives:

- Explain the HPE server portfolio and primary reference resources necessary to support HPE infrastructure
- Identify and correctly position HPE ProLiant Gen10 embedded management tools
- Understand the function and proper use of iLO 5, UEFI ROM, agentless management, intelligent provisioning, active health systems viewer, SUM, SUT and SPP
- Demonstrate the skills to connect to and configure iLO 5, and use it to monitor server health and locate logs for server events
- Demonstrate the knowledge to install the HPE OneView appliance to manage and maintain firmware, implement compute and networking configurations, monitor the data center, and respond to issues
- Understand the basics of HPE Edgeline Infrastructure Manager and HPE Infosight for Servers

Audience

This content pack is recommended for system administrators, engineers and consultants who will install, manage and monitor HPE ProLiant and HPE BladeSystem servers, as well as customers planning a move to composable infrastructure.

Content Pack components

This content pack consists of eight courses:

- HPE Server Solutions Overview, Rev. 19.41
- HPE ProLiant Gen10 Embedded Server Mgt Overview, Rev. 19.41
- Mastering HPE ProLiant Gen10 Embedded Server Management, Rev. 19.41
- Introduction to HPE iLO for Remote Server Management, Rev. 19.41
- Introduction to HPE Server Management Tools, Rev. 19.41
- HPE Edgeline Infrastructure Manager Overview, Rev. 19.21
- Getting Started with HPE InfoSight for Servers, Rev. 19.21
- HPE OneView Administration, Rev. 18.21

Recommended Prerequisites

HPE recommends that students starting this content pack have general server industry experience and appreciate the need for infrastructure management.

Detailed course outline

HPE Server Solutions Overview, Rev. 19.41

This self-paced course provides a technical introduction to HPE ProLiant Gen10 server products, including server hardware platforms, options and components, and embedded server management tools and applications. The focus of this course is ProLiant Gen10 server hardware platforms, with embedded server management tools and applications covered at a higher level.

- Module 1: ProLiant Server Product Families and Series
- Module 2: Installation and Pre-installation Considerations
- Module 3: Tour of the Servers
- Module 4: Theory of Operations
- Module 5: Embedded Server Management
- Module 6: Repair
- Module 7: Troubleshooting
- Module 8: Resources

HPE ProLiant Gen10 Embedded Server Management Overview, Rev. 19.41

This course introduces HPE ProLiant Gen10 Embedded Management tools and software. The course provides a high-level tour of each tool's theory of operations, comparison with previous versions, and unique functions and features.

- Module 1: Overview
 - Overview of the products
- Module 2: Agentless Management—Overview
 - Features
 - Comparison
 - Theory of operations
 - Key takeaways
- Module 3: Active Health System Viewer
 - Walkaround
 - Features and functions
 - Theory of operations
 - Key takeaways
- Module 4: iLO
 - Walkaround
 - Server health summary
 - Features and functions
 - Comparison to previous
 - Theory of operations
 - Licensing
 - Key takeaways
- Module 5: iLO Amplifier Pack
 - Features & functions
 - Comparison to previous versions
 - Theory of operations
 - Key takeaways
- Module 6: Intelligent Provisioning
 - Walkaround
 - Features and functions
- Module 7: RESTful
 - iLO RESTful API
 - RESTful Interface Tool
 - Key takeaways
- Module 8: Smart Update
 - Service pack for ProLiant
 - Smart Update Manager
 - Integrated Smart Update Tools
- Module 9: UEFI
 - Walkaround
 - Features and functions
 - Comparison with previous versions
 - Theory of operations
 - Key takeaways
- Module 10: Services and Warranty
 - List of services

Mastering HPE ProLiant Gen10 Embedded Server Management, Rev. 19.41

This course covers the installation and configuration tasks, management, maintenance and use of the HPE Gen10 ProLiant Embedded Management tools and software.

- Module 1: What's New
 - What's new for software management and use
- Module 2: Install and Configuration
 - Tasks and products
 - Monitoring
 - Maintaining
 - Performance and tuning
- Module 3: Software Management and Use
 - What's new
 - Information library resources

Introduction to HPE iLO for Remote Server Management, Rev. 19.41

This thorough course discusses the topics to help to understand iLO concepts and terminology. It provides the opportunity to develop a deeper understanding of iLO 5 and key features including security, scripting tools, and iLO Federation.

- Module 1: Tour of HPE iLO 5
- Module 2: Setting Up HPE iLO 5
- Module 3: Using iLO 5 Every Day
- Module 4: Keeping the Server Up to Date
- Module 5: Reviewing Features of iLO 5
- Module 6: Configuring HPE iLO 5
- Module 7: Exploring the Scripting Tools
- Module 8: Configuring and Using iLO 5 Federation
- Module 9: Responding to System Events
- Module 10: Troubleshoot and Recover HPE iLO 5
- Module11: Resources

Introduction to HPE Server Management Tools, Rev. 19.41

This course introduces the wide range of tools that HPE offers for setup, provisioning, maintenance, and monitoring HPE servers. The modules in the course are arranged by server life cycle tasks, and within each module you will find a description of the tools available to accomplish the task.

- Module1: Setup and Configuration
 - Develop an understanding of HPE tools for setup and configuration by reviewing UEFI, Cloudline and Edgeline server setup tasks, as well as tools for network configuration and storage
- Module 2: Server Provisioning
 - Identify the methods for provisioning the server, including:
 - Intelligent Provisioning
 - iLO Amplifier Pack
 - Insight Control
 - Edgeline Infrastructure Manager
- Module 3: Server Update Tools
 - Review the methods and tools available for updating HPE servers using Service Pack for ProLiant (SPP)
 - Manage the update process using Smart Update Manager (SUM) and Smart Update Tool (SUT)
- Module 4: Ongoing Operation and Management
 - Review the methods for monitoring and maintaining the server using HPE tools designed for that purpose (the method chosen will depend on the type and number of servers in operation)
- Module 5: Support Automation
 - Identify the types and tools available for monitoring HPE servers remotely
- Module 6: Scripting
 - Overview of the tools for scripting and automating tasks to manage one or many servers
- Module 7: Power and Performance Management
 - Focus on particular components such as power and configurations to manage performance

HPE Edgeline Infrastructure Manager Overview, Rev. 19.21

This course presents a detailed overview, features and functionalities of the first release of HPE Edgeline Infrastructure Manager (EIM). Topics include: installing and configuring EIM, navigating and using the EIM user interface, managing EIM settings, users and security, and monitoring resources with EIM.)

- Module 1: Product Overview
 - General features of HPE Edgeline Infrastructure Manager
 - System requirements
 - Theory of Operation
- Module 2: Installing and Configuring HPE Edgeline Infrastructure Manager
 - Appliance files to deploy HPE Edgeline Infrastructure Manager on a VMware ESXi, workstation, or player
 - Deploy including first time setup procedures for operation
 - Understand the initial login and VM appliance through recorded demo
- Module 3: Use and Management
 - Describe the components on the main dashboard of HPE Edgeline Infrastructure Manager
 - Understand the end user options and key tasks in HPE Edgeline Infrastructure Manager
 - Describe the appliance management options
 - Understand the usage (recorded demo)
- Module 4: Troubleshooting
 - Describe reboot/reset, factory reset and forgot password options for EIM

Getting Started with HPE InfoSight for Servers, Rev. 19.21

This training describes the InfoSight for Servers implementation, how to access and use InfoSight for Servers, and some of the common considerations and documentation that could be useful when working with the tool and resolving common issues.

- Module 1: HPE InfoSight for Servers Product Overview
- Module 2: HPE InfoSight for Servers Theory of Operation
 - HPE InfoSight connectivity prerequisites
 - HPE InfoSight home page
 - How to use HPE InfoSight
 - User management
- Module 3: HPE InfoSight for Servers Troubleshoot and Resolve
 - HPE InfoSight interface and login considerations
 - Server data-related issues
 - Communication and connectivity issues
 - Organization and role-related issues
- Module 4: HPE InfoSight for Servers Additional Resources

HPE OneView Administration WBT, Rev. 18.21

HPE OneView is an integrated converged management platform that provides software-defined intelligence across the entire HPE family of infrastructure solutions, provides embedded management in HPE Synergy and delivers attributes of composability to HPE BladeSystem and ProLiant servers. This web-based course is essential training for system, network, and storage administrators using HPE OneView, and for system architects implementing HPE OneView in the data center.

- Module 1: Installing and Configuring HPE OneView
 - List the main new features in HPE OneView
 - Locate HPE OneView product documentation and resources
 - Retrieve support information from the HPE OneView Support Matrix
 - Install and configure HPE OneView
 - Perform a guided setup
 - Back up a OneView appliance
- Module 2: Using HPE OneView
 - Describe the components of a OneView domain and the relationship between them
 - Create and manage networks in OneView
 - Add and manage storage systems in OneView
 - Import, remove, and migrate components to OneView
- Module 3: Working with Server Profiles and Managing Firmware
 - Describe the main concepts regarding HPE OneView server profiles and server profile templates
 - Create server profiles and server profile templates
 - Establish Ethernet and fibre channel connections using server profiles
 - Configure server profile settings
 - Assign and move server profiles, and attach to 3PAR Storage volume
 - Download and customize a firmware bundle
 - Access the OneView firmware repository
 - Install driver and firmware updates using Smart Update Tools
 - Update HPE OneView managed components
- Module 4: Administering HPE OneView
 - Configure the data center and rack layouts in HPE OneView
 - Monitor the activities, actions, and alerts in HPE OneView
 - Enable HPE Remote Support in HPE OneView
 - Manage users and user groups in HPE OneView
 - Set up HPE OneView security and licensing
 - Troubleshoot problems with HPE OneView
 - Use HPE OneView Global Dashboard to manage and monitor the data center infrastructure

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