

HPE Digital Learner Server Management Content Pack

HPE Content Pack number	CP002
Content Pack length	26 hours
Content Pack category	Category 2
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This content pack provides information and skills related to implementing and managing HPE ProLiant, HPE BladeSystem, and HPE 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. The course includes pointers to primary reference resources necessary to support HPE infrastructure.

Audience

This content pack is recommended for system administrators, engineers and consultants who 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 nine courses:

- HPE Server Solutions Overview, Rev. 19.41
- HPE ProLiant Gen10 Embedded Server Management 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. 20.41
- HPE OneView for ProLiant DL/ML Servers, Rev.20.21
- iLO Amplifier Pack Foundation, Rev. 20.21

Content Pack Objectives

By the end of the course, you should be able to:

- 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

Recommended learning

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

Detailed content pack outline

HPE Server Solutions Overview, Rev. 19.41

This eLearning 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 6: Intelligent Provisioning

- Walkaround
 - Features and functions
 - Comparison to previous
 - Theory of operations
 - Key takeaways
-

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
 - Pop quiz
 - Features and functions
 - Comparison with previous
 - 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

Module 2: Installation and Configuration

- About
- What's new for installation and startup
- Where to find products
- UEFI configuration
- iLO configuration
- Scripting tools
- Intelligent provisioning
- Key takeaways

Module 3: Software Management and Use

- About
- What's new for software management and use
- Tasks and products
- Monitoring
- Maintaining
- Performance and tuning
- Key takeaways

Module 4: Resources

- What's new
 - Information library resources
 - Activities
-

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

This thorough course on iLO technology covers appropriate topics—iLO 5 being the latest—to understand iLO concepts and terminology. This course provides the opportunity to develop a deeper understanding of iLO 5 to get users up and running, and also to understand 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 (Advanced Topic)

Module 7: Exploring the Scripting Tools (Advanced Topic)

Module 8: Configuring and Using iLO 5 Federation (Advanced Topic)

Module 9: Responding to System Events

Module 10: Troubleshoot and Recover HPE iLO 5 (Advanced Topic)

Module 11: 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.

Module 1: Setup and Configuration	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Identify the methods for provisioning the server, including: <ul style="list-style-type: none"> Insight Control Intelligent Provisioning iLO Amplifier Pack Edgeline Infrastructure Manager
Module 3: Server Update Tools	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Identify the types and tools available for monitoring HPE servers remotely
Module 6: Scripting	<ul style="list-style-type: none"> Overview of the tools for scripting and automating tasks to manage one or many servers
Module 7: Power and Performance Management	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Describe the general features of HPE Edgeline Infrastructure Manager List the system requirements needed to install and use HPE Edgeline Infrastructure Manager 	<ul style="list-style-type: none"> Explain the theory of the operation of the HPE Edgeline Infrastructure Manager
Module 2: Installing and Configuring HPE Edgeline Infrastructure Manager	<ul style="list-style-type: none"> Download the necessary appliance file to deploy HPE Edgeline Infrastructure Manager on a VMware ESXi, workstation, or player Deploy the HPE Edgeline Infrastructure Manager appliance file using the appropriate deployment procedure 	<ul style="list-style-type: none"> Perform the necessary first time setup procedures to prepare HPE Edgeline Infrastructure Manager for operation Understand the initial login and VM appliance through recorded demo
Module 3: Use and Management	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Describe the appliance management options Understand the usage through recorded demo (for each section)
Module 4: Troubleshooting	<ul style="list-style-type: none"> Describe reboot/reset, factory reset and forgot password options for EIM 	

Getting Started with HPE InfoSight for Servers, Rev. 20.41

This training describes the InfoSight for Servers implementation, including how to access and use InfoSight for Servers. It also covers some of the common considerations and documentation that is useful when working with this tool and resolving common issues.

Module 1: HPE InfoSight for Servers Product Overview

Module 2: HPE InfoSight for Servers Theory of Operation

- Lesson 1: InfoSight portal access
- Lesson 2: InfoSight for Servers initial configuration requirement
- Lesson 3: InfoSight for Servers connectivity requirements
- Lesson 4: InfoSight home page
- Lesson 5: How to use InfoSight for Servers
- Lesson 6: InfoSight for Servers user management

Module 3: HPE InfoSight for Servers Troubleshoot and Resolve

- Lesson 1: Internet browser and HPE Passport concerns
- Lesson 2: Organization considerations
- Lesson 3: Server related issues
- Lesson 4: iLO Amplifier Pack and connectivity issues

Module 4: HPE InfoSight for Servers Additional Resources

HPE OneView for ProLiant DL/ML Servers, Rev. 20.21

This course presents HPE OneView management features for HPE ProLiant DL and ML Servers. During the course, students learn how to deploy, configure, and use HPE OneView to manage HPE ProLiant DL/ML Servers. Students also learn how to use HPE OneView Global Dashboard to monitor resources from several HPE OneView Management instances. Hands-on practice labs in a simulated HPE OneView environment are included to help students better understand and retain HPE OneView knowledge.

Module 1 - Introduction to HPE OneView

Module 2 - HPE OneView Appliance Installation and Configuration

Module 3 - Configuring Storage for HPE ProLiant DL Servers

Module 4 - Server and Profile Management

Module 5 - HPE OneView Maintenance and Support

Module 6 - Datacenter Management and HPE OneView Global Dashboard

Hands-on Exercises

Lab Exercise 1: Adding an SPP to HPE OneView

Lab Exercise 2: Managing and Configuring Storage Components in HPE OneView

Lab Exercise 3: Adding Rack Server for Management and Monitoring

Lab Exercise 4: Preparing a Server Profile Template and Server Profile for a DL System

Lab Exercise 5: Modifying the Server Profile Template and Server Profile for a DL System

Lab Exercise 6: Creating a Support Dump and Backing Up HPE OneView

Lab Exercise 7: Creating HPE OneView Reports

Lab Exercise 8: Configuring Security in HPE OneView

Lab Exercise 9: Configuring Datacenter Components

Lab Exercise 10: Using HPE Global Dashboard

iLO Amplifier Pack Foundation, Rev. 20.21

This course provides the required knowledge to install and configure the HPE iLO Amplifier Pack software for the first time. Topics cover the main features, architecture, and functionality of this solution. Directions are also provided to perform typical configuration and upgrade tasks.

Module 1: Product Overview	<ul style="list-style-type: none"> Product description iLO Amplifier Pack key features 	<ul style="list-style-type: none"> Product positioning Key takeaways
Module 2: Software Install and Configure	<ul style="list-style-type: none"> Installing iLO Amplifier Pack 	<ul style="list-style-type: none"> Configuring iLO Amplifier Pack
Module 3: Software Management and Use	<ul style="list-style-type: none"> Dashboard overview Managing servers Deploying firmware and drivers 	<ul style="list-style-type: none"> Server recovery management HPE InfoSight for Servers management Managing iLO Amplifier Pack appliance
Module 4: Theory of Operation	<ul style="list-style-type: none"> iLO Amplifier Pack architecture Server firmware update communication flow 	<ul style="list-style-type: none"> Server System Restore flow HPE InfoSight communication flow
Module 5: Troubleshoot and Resolve	<ul style="list-style-type: none"> Troubleshooting iLO Amplifier Pack overview Monitoring jobs Viewing and configuring alerts Resolving iLO Amplifier Pack common issues Resolving vLCM HSM plugin common issues 	<ul style="list-style-type: none"> Resolving HPE InfoSight connectivity issues Resolving AHS download errors Retrieving iLO Amplifier Pack support logs Resetting the iLO Amplifier Pack appliance
Module 6: Resources		

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