Hewlett Packard Enterprise

Introduction to HPE ProLiant and Apollo Servers HE643S

HPE course number	HE643S
Course length	2 days
Delivery mode	ILT, VILT
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This course provides essential HPE ProLiant training to system administrators who are responsible for ProLiant DL, and Apollo systems. Students will receive an overview of HPE products, tools, agents, and utilities that will help them set up, deploy, monitor, and maintain their ProLiant and Apollo servers.

Practical hands-on lab exercises are presented on HPE ProLiant Gen10 and Gen9 servers.

Audience

Administrators, engineers, and consultants who will configure and maintain HPE ProLiant and Apollo servers

Prerequisites

Students should have a basic understanding of at least one of the following operating systems:

- Microsoft Windows Server® 2016 Standard
- SUSE Linux Enterprise Server 12
- VMware® ESXi™ 6.x

Course objectives

After completing this course, you should be able to:

- Identify the HPE ProLiant servers in the portfolio
- Identify the HPE Apollo air-cooled servers in the portfolio.

- List key features of HPE ProLiant Generation 10 (Gen10 Plus) servers
- Identify integrated Lights-Out (iLO) functions and features
- Navigate the iLO web browser interface to perform server setup, management, and maintenance
- Identify the stages of the Gen10/9 ProLiant boot process
- Configure a server by using Unified Extensible Firmware Interface (UEFI)
- Configure and deploy an operating system to a single HPE ProLiant Gen 10 Plus/10/9 server using Intelligent Provisioning
- Update firmware and software on a ProLiant server using Service Pack for ProLiant (SPP) with Smart Update Manager (SUM)
- Identify other HPE tools and utilities that assist in the monitoring and maintenance of a ProLiant and Apollo server
- Locate HPE websites for resources describing setup, deployment, monitoring, maintenance, and support of a ProLiant server

Detailed course outline

Module 1 HPE ProLiant Servers	• HPE ProLiant Gen10 Plus Family	– AMD platform
	– Introducing the HPE ProLiant Server families	– Telco servers
	– Gen10 Plus portfolio	– Apollo systems
	– Decoding the naming conventions	– Common options
	– Comparison of Gen10 Plus to Gen10 servers	– Learning checks
	– Common features	• Key takeaways
	– Intel platform	
Module 2 Security	• Security Concepts Overview	• Other Security
	• Security Platform	• Learning checks
	• iLO Security	• Key takeaways
	• Hardware Security	
Module 3 Preparing to Set up the Server	• Gathering server requirements	• Learning checks
	• Before you begin	• Key takeaways
	• Setup process	
Module 4 iLO 5 (integrated Lights-Out 5)	• Features and architecture	• Security
	• Management features	• Managing power and thermal
	• Additional iLO 5 tools, utilities, and interfaces	• Learning checks
	• Performing maintenance	• Key takeaways and resources
	• Monitoring health and status	
Module 5 Configuring the Server	• Overview and access to UEFI System Utilities	• Configuring BIOS settings
	• Configuration overview	• Learning checks
	• UEFI Shell	• Key takeaways
	• Intelligent Provisioning	
Module 6 HPE ProLiant Storage and Smart Array Controllers	• Storage Controller portfolio	• Drives
	• Modes of operation	• Learning checks
	• Administration	• Key takeaways
	• RAID configuration tools	
Module 7 HPE ProLiant Firmware and Software Maintenance	• Smart Update Technology	• iLO Amplifier
	• Service Pack for ProLiant	• InfoSight for Servers
	• Smart Update Manager	• Learning checks
	• Smart Update Tools	• Key takeaways
Module 8 HPE ProLiant Troubleshooting and Ongoing System Support	• Gather information	• Support options
	• Research known issues	• Learning checks
	• Develop or implement an action plan	• Key takeaways
	• HPE warranty	
Module 9 Introduction to HPE ProLiant and Apollo servers course review course closing	• Locating more information	• Reviewing course objectives and next steps

Detailed Lab outline

Lab 1: HPE ProLiant Website Resources		
Lab 2: HPE integrated Lights Out (iLO)		
Lab 3: Configuring HPE ProLiant Gen10/9 UEFI		
Lab 4: Setting Up Systems with Intelligent Provisioning		
Lab 5: Installing an OS with IP	• Lab 5a Windows 2016 • Lab 5b SLES 12	• Lab 5c ESXi 6.5u1
Lab 6: Updating Systems		
Lab 7: Agentless Management		
Lab 8: Configuring iLO with OS Utilities	• Locating more information	• Reviewing course objectives and next steps

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