

دوره HP (اچ پی) | HP ProLiant (اچ پی) Servers

شرح مختصر

MP ProLiant مربوط به سرورهای مقدمات مربوط به سرورهای

مروری بر دوره

مروری بر دوره

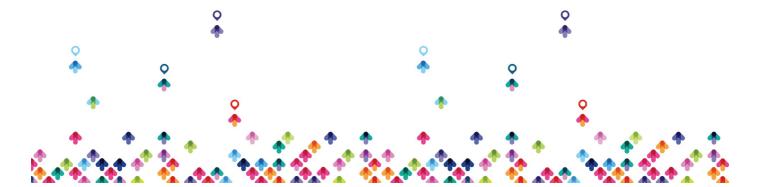
طراحی این دوره به گونهای انجام شده است که Admin هایی که وظیفه مدیریت سرورهای ProLiant ML، DL و BL را بر عهده دارند با مقدمات HP ProLiant آشنا گردند. دانشجویانی که در این دوره شرکت میکنند مروری کوتاهی بر محصولات Admin فردند. دانشجویانی که در این دوره شرکت میکنند مروری کوتاهی بر محصولات HP، ابزارها، agent ها و نیز خدمات مناسب جهت راهاندازی ، پیادهسازی ، نظارت و نگهداری از سرورهای ProLiant خواهند داشت.

آزمایشگاههای عملی این دوره مبتنی بر سرورهای HP ProLiant Gen۸/۹ تدوین شده است.

آنچه در این دوره خواهید آموخت

آنچه خواهید آموخت

- آشنایی با سرویسها و محصولات مربوط به سرورهای HP ProLiant
- آشنایی با مجموعهای از قابلیتهای کلیدی سرورهای ۸/۹ HP ProLiant Generation
- آشنایی با Integrated Lights-Out (iLO) در کنار Integrated Lights-Out (iLO) و ILO command Line Interface (IRC)
 - آشنایی با ابزارهایی که از آنها می توان در جهت پیکربندی iOL بر روی سرور ProLiant استفاده نمود
 - آشنایی با فرآیند بوت مربوط به ۱۹۸۹ ProLiant Generation و چگونگی پیکربندی یک سرور با استفاده از
 Unified Extensible و (Option Rom (ROM-Based Steup Utility {RBSU})





(Firmware Interface (UEFI

- شناسایی و استفاده از کامیوننت های سازنده ۴ iLO
- چگونگی استفاده از Intelligent Provisioning جهت پیکربندی و استقرار یک سیستم عامل بر روی سرور و ProLiant Generation ۸/۹
- تشریح چگونگی استفاده از Smart Update Manager (SUM) و Service Pack for ProLiant و Service Pack for ProLiant و نرمافزار بر روی سرور SPP)) جهت بهروزرسانی firmware و نرمافزار بر روی سرور
 - آشنایی با ابزارها و سرویسهای HPE که میتواند برای نظارت و تعمیر و نگهداری سرور Proliant مفید باشند
 - که میتوانند برای تنظیمات، استقرار، نظارت ، تعمیر و نگهداری و پشتیبانی از یک سرورHPEآشنایی با وبسایتهای استفاده شوندProLiant

سرفصل ها (حضوری)

سرفصل ها

Module ·:

- Introduction to ProLiant Servers
- -Objectives
- -Modules follow the basic steps for server configuration
- -Introduction

Module 1:

• HPE ProLiant family





- -x_As server portfolio
- -HPE ProLiant Severs
- -ProLiant rack and tower servers
- -ProLiant Gena rack and tower servers Series Numbers
- -ProLiant ML & DL
- Finding the right server for your IT needs
- -ProLiant BL server portfolio
- -ProLiant BL line Gena and Gena
- -ProLiant SL line
- -Transitioning to the HPE Apollo line
- -Apollo Family ProLiant XL Servers
- -PE Moonshot System
- -HPE Moonshot No. Chassis
- ProLiant server features





- -Innovations in ProLiant Gena servers
- -Additional new technologies and improvements for ProLiant Gena
- -Insight end-to-end infrastructure management
- -iLO ۴
- -HPE ProLiant Management Portfolio
- -Insight Remote Support
- -Flexible Network Adapters
- -ProLiant Smart Storage
- -HPE Insight Control
- -HPE OneView
- Operating systems for HPE ProLiant servers
- -Determining operating system support
- -Server matrices
- Additional product information





- -HPE Services Media Library
- -Quick Reference Mobile Experience
- -HPE QuickSpecs

Module Y:

- HPE integrated Lights-Out Features and functions
- -Universal Server Administrator Requirements
- -HPE's answer to universal server admin requirements
- -Features in HPE Integrated Lights-Out *
- -RESTful API with UEFI and iLO
- -What is Redfish?
- -HPE iLO and the NAND
- -Connect the server to the network with iLO Standard
- -iLO NAND partitioning
- -iLO architecture
- -Customer needs addressed by HPE iLO





- -iLO Mobile App
- -Server Lifecycle
- -Additional iLO * functionality
- -HPE iLO f FW version Enhancements (7.7. and 7.6.)
- •HPE iLO licensing
- -HPE Integrated Lights-Out license types
- -HPE iLO Advanced or iLO Scale-Out License provide full management implementation of iLO Federation
- -iLO Advanced licensing
- Accessing and using iLO through the WebAdministration Interface
- -iLO f web interface browser support
- -iLO user interface
- -Power Management
- -iLO Federation
- -iLO Virtual Media





-iLO Advanced: Directory Services Integration

- •iLO Integrated Remote Console
- -iLO Remote Administration
- -IRC and Java (Linux) IRC
- -Accessing the IRC
- -IRC options
- -Accessing the Java (Linux) IRC
- iLO command line interface
- -Accessing the iLO CLI
- -Text-based Remote Console
- -Examples of managing iLO with the SMASH CLP scripting language
- Configuring iLO
- -iLO configuration utilities





- -iLO Online Configuration Utility GUI for Windows®
- -iLO Online Configuration Utility CLI
- -RIBCL/XML scripting
- -HPQLOCFG utility for Windows
- -LOCFG.PL Utility
- -HPE Scripting Tools for Windows PowerShell
- -RESTful Interface API and tool
- •iLO Federation
- -HPE iLO Federation overview
- -Configuring iLO Federation Management
- -iLO Federation Management GUI
- -Multi-System View health status
- -Group Virtual Media
- -Virtual Group Power control
- -Automatic Group Power Capping





- -iLO firmware and System ROM group update
- -Group Configuration
- -Configuring multicast options
- -Additional Resources

Module v:

- HPE ProLiant GenA and GenA System ROM
- -HPE ProLiant Gen A and Gen ROM features
- -Standardized ProLiant Genala ROM
- -HPE Advanced Error Detection Technology
- -Early Video Progress Indicators
- -Early Video Boot Screen
- -Fault detection messaging
- -Once the POST functions are complete
- -Active Health System log
- -ROM support for SmartMemory





- -Digital signature
- HPE ProLiant GenA and GenA boot process
- -Early video boot screen
- -Main boot screen
- -Overview of UEFI
- -UEFI overview
- -Benefits of UEFI compared to legacy BIOS
- -Important HPE UEFI Requirements for HPE ProLiantGen servers
- -HPE ProLiant DL۵۸. GenA Server was first ProLiant to use theUEFI boot process
- -Selecting the UEFI Mode
- -UEFI System Utilities
- -Additional UEFI Resources
- •Using the RBSU
- -RBSU main menu





- -RBSU configuration example
- -Redundant System ROM configuration example
- -Configuring iLO via the RBSU
- -iLO configuration overview GenA
- -Accessing the iLO Configuration Utility Gena
- -Using ORCA and SSA
- -ORCA overview
- -Accessing ORCA Gena or earlier
- -Accessing SSA Gena
- -SSA Interface

Module 4:

- •Intelligent Provisioning overview
- -What's new
- -Intelligent Provisioning ۲.۴۰ Operating Systems Support
- -What does Intelligent Provisioning do?





- -Accessing Intelligent Provisioning
- -Accessing Intelligent Provisioning for the first time
- -System Software Update setting
- -Intelligent Provisioning main options
- Perform Maintenance
- -Perform Maintenance menu
- -HPE Smart Storage Administrator
- -Firmware Update
- -Deployment Settings
- -Using deployment profiles
- -Insight Diagnostics
- Configure and Install
- -Step \—Hardware Settings
- -Step <-OS Selection





- -Step ^r−OS Information
- -Step +—Review
- -Intelligent Provisioning and partition size
- -Installing drivers automatically VID
- Multi-server provisioning
- -Current server provisioning offerings from HPE
- -HPE Insight Control server provisioning features
- -Resources
- Updating Intelligent Provisioning and component firmware
- -Firmware updates with Intelligent Provisioning
- -Updating Intelligent Provisioning
- -Boot to the recovery media and flash an IntelligentProvisioning image
- -Resources for updating Intelligent Provisioning





Module A:

- HPE Smart Update solution overview
- -HPE Smart Update Solution
- -HPE Smart Update technology
- -HPE Smart Update deployment mode definitions
- HPE Service Pack for ProLiant
- -Overview
- -HPE Service Pack for ProLiant access update
- -HPE SPP features
- -Downloads
- -SPP documentation
- -HPE Smart Update and Linux
- -HPE Software Delivery Repository
- —Linux-HPE Smart Update for VMware ESXi and VMware vSphere®
- -HPE Online Depot in the SDR





- -VMware
- -HPE SPP Supplement Release
- -SPP Hot Fixes -HPE SPP support policy
- -HPE Smart Update Manager
- -HPE Smart Update Manager (HPE SUM)
- -What's new in HPE Smart Update Manager v.f..
- -Enhancements to Smart Update Manager (SUM) V.F.
- -Easy Mode and Advanced Mode in Deployment screen
- -What's New with Smart Update Manager (SUM) Y.A.
- Features
- -HPE SUM v.x configurations
- -HPE SUM v.x workflow
- -HPE SUM integration with HPE OneView
- -Home screen
- -The major areas of the GUI





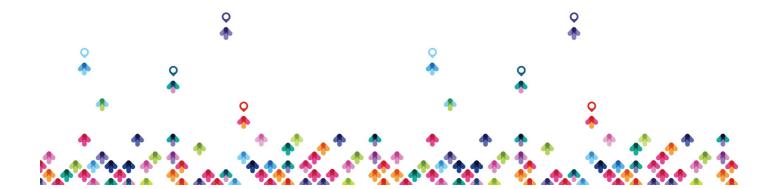
- -Baselines
- -Nodes
- -Deploy a node

Course data sheet Page *

- Reports
- Logging out of the HPE SUM GUI
- HPE SUM v.x operating system deployment support
- HPE SUM CLI deployment
- Scriptable interface
- Additional information

Module 9:

- Agentless management with the AMS
- Traditional SNMP/WBEM based System Management and Monitoring
- Agentless Management Architecture





- What is Agentless Management?
- Agentless Management data collection components
- Agentless Management is operating system independent
- Advantages of Agentless Management
- Agentless Management Service
- Managing the AMS in Windows environments
- Managing the AMS in Linux environments
- Managing the AMS in VMware environments
- Enabling Agentless Management
- iLO interface has a System Information tab
- Where to find the AMS
- HPE SNMP agents and WBEM providers
- Overview
- Subsystem coverage iLO only no agents, no AMS
- Agents and agentless comparison





- Active Health System
- AHS architecture
- Types of data storage
- AHS log
- Active Health System log download
- HPE data collection policy for AHS
- HPE SIM and HPE OneView support
- System Management Homepage
- SMH overview
- SMH layout
- HPE Insight Diagnostics
- Overview
- HPE Insight Diagnostics Online
- Survey tab
- HPE Insight Diagnostics Offline





- Test, Log, and Status tabs

Module V:

- HPE warranty and support
- HPE ProLiant servers
- HPE ProLiant hardware support
- Service Pack for ProLiant
- Support options
- A New Kind of Support
- Always-on support from HPE
- Foundation Care
- Proactive Care
- Datacenter Care
- Lifecycle Event Services





- HPE Insight Remote Support
- Remote Support overview
- Connected Support from Hewlett Packard Enterprise
- Connection options
- Insight Remote Support registration
- Remote support built into iLO
- Remote support with a direct connection
- HPE Insight Online with Insight RS Y.X
- HPE Support Center
- Support Center overview
- Downloading an SPP
- Finding advisories, bulletins, and notices
- Submitting and managing support cases
- HPE Insight Online





- Insight Online overview
- Insight Online Dashboard
- Useful links

Module A:

- Course Closing
- Course review
- HE۶۴۳S: Introduction to HPE ProLiant Servers
- Course objectives review
- Next steps
- Training from HPE Education Services

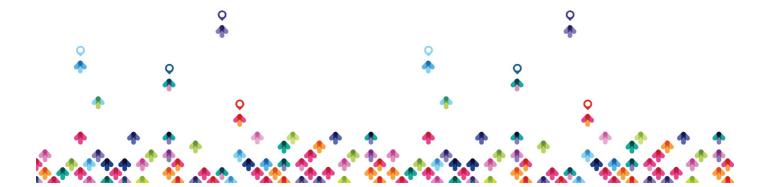
مخاطبان دوره

مخاطبان دوره

• ادمین ها، مهندسین و مشاورینی که وظیفه نصب، پیکربندی و پشتیبانی از سرورهای HP ProLiant را بر عهده دارند.

پیش نیاز ها

پیش نیازها





دانشجویان در این دوره میبایست با مبانی کار با سیستم عاملهای زیر آشنا باشند:

Microsoft Windows Server® ۲۰۱۲ Standard SUSE Linux Enterprise Server ۱۱ VMware® ESXi™ Δ.x

