Building HPE Server Solutions, Rev. 18.11 - 01098692

Code:	SVR-ATP18.11
Length:	3 days
URL:	View Online

This course teaches students the fundamentals of the HPE server portfolio, including HPE ProLiant ML, DL and BL servers, HPE SimpliVity 380, HPE Apollo, and HPE Synergy solutions. It also covers the technologies and tools necessary for managing a data center, including on-system, on-premises, and on-cloud management.

The course uses participant centered learning and hands-on emulators. Emulators use software to replicate HPE Server technologies and allow learners to engage in lab activities using web based resources.

Skills Gained

After you successfully complete this course, expect to be able to:

- Describe the HPE Composable Infrastructure strategy
- Explain how the HPE Transformation Solutions reflect what customers consider most important
- Identify the security technologies embedded in HPE ProLiant servers
- Describe the chassis and rack-scale security
- Describe Gen10 Intelligent System Tuning
- Identify ProLiant Gen10 Storage technologies
- Identify ProLiant Gen10 Network technologies
- Describe HPE configuration tools
- Explain on-system management with HPE iLO 5
- Describe the HPE SimpliVity 380 hyperconverged solution
- Name the tools used during the ProLiant boot process and server configuration
- Name the HPE on-system management tools used prepare a ProLiant system for deployment
- Describe, at a high level, the features and functions of HPE Intelligent Series Racks
- Explain the importance of High Performance Computing
- Provide a high-level overview of HPE Synergy
- List and describe the components of HPE Synergy
- Describe the architecture of HPE OneView
- Explain how HPE OneView integrates with partner products such as:
- HPE OneView for VMware vCenter
- HPE OneView for Microsoft System Center
- HPE OneView for Red Hat Enterprise Virtualization

- Explain how to perform remote management with HPE on-premises and on-cloud management tools

Who Can Benefit

Typical candidates for this course are:

- Consultants
- Pre-sales Engineers
- Sales Engineers
- Systems Engineers
- Solutions Architects
- Administrators
- Installation Technicians

Prerequisites

Suggested:

- 01114481: Designing HPE SMB Data Center Architectures, Rev. 17.41

Course Details

Topics

Module 1: Transforming IT Strategy

- Identify how the approach to IT strategy is changing in the Idea Economy.
- Describe the HPE Composable Infrastructure strategy.
- Explain how the HPE Transformation Solutions reflect what customers consider most important.
- Describe the HPE Gen10 Compute Experience values.

Module 2: Security

- Explain how security risks impact customers
- Identify the security technologies embedded in HPE ProLiant servers
- Learn more about how the new Gen10 security features make HPE unique
- Describe the chassis and rack-scale security.

Module 3: HPE server technologies and tools

- Identify the processor technologies embedded in ProLiant Gen10 servers.
- Describe Gen10 Intelligent System Tuning.
- Identify ProLiant Gen10 Storage technologies.
- Identify ProLiant Gen10 Network technologies.
- Describe HPE configuration tools.
- Explain on-system management with HPE iLO 5.

Module 4: HPE ProLiant tower servers

- Describe the high-level features of the following HPE tower servers:
- ProLiant ML350 Gen10
- ProLiant ML110 Gen10
- ProLiant MicroServer Gen10
- ProLiant ML10 Gen9
- ProLiant ML30 Gen9
- ProLiant ML110 Gen9
- ProLiant ML150 Gen9

Module 5: HPE rack server solutions

- Describe, at a high level, the features and market position of the HPE ProLiant DL rack server lines.
- Describe the HPE SimpliVity 380 Hyperconverged solution.
- Describe, at a high level, the features and functions of HPE Intelligent Series Racks.

Module 6: HPE performance computing solutions

- Explain the importance of High Performance Computing.
- Consider the portfolio of HPE High Performance Computing solutions.
- Describe the Apollo 2000 HPC solution.
- Describe the Apollo 10 series HPC solutions.

Module 7: HPE BladeSystem solutions

- Explain how HPE BladeSystem solutions meet data center challenges.
- Provide an overview of the currently shipping HPE ProLiant server blades.
- Describe, at a high level, BladeSystem enclosures and their components, including:
- Onboard Administrator
- Insight Display
- Storage blades
- Summarize BladeSystem interconnect options.
- Explain HPE OneView and HPE BladeSystem integration

Module 8: HPE Synergy

- Provide a high-level overview of HPE Synergy.
- List and describe the components of HPE Synergy:
- Composer
- Compute modules
- Frames
- Fabric
- Storage modules

- Image Streamer
- Describe the Synergy management subsystem and HPE OneView support.

Module 9: HPE on-system management

- Explain how to prepare a HPE ProLiant server system for deployment.
- Name the tools used during the ProLiant boot process and server configuration:
- System Utilities
- BIOS/Platform Configuration
- Name the HPE on-system management tools used prepare a ProLiant system for deployment.
- iLO 5
- Intelligent Provisioning
- HPE Smart Update Manager (HPE SUM)/Service Pack for ProLiant (SPP)
- RESTful interface tool
- Agentless Management
- HPE Smart Storage Administrator (SSA)

Module 10: HPE on-premises and on-cloud management

- Describe HPE server management.
- Explain the HPE OneView approach to infrastructure lifecycle management.
- Describe the architecture of HPE OneView.
- Explain how HPE OneView integrates with partner products such as:
- HPE OneView for VMware vCenter
- HPE OneView for Microsoft System Center
- HPE OneView for Red Hat Enterprise Virtualization
- Explain how to perform remote management with HPE on-premises and on-cloud management tools.
- HPE iLO Advanced
- HPE Insight Online
- HPE Insight Remote Support

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