HPE Digital Learner Composable Content Pack

This content pack provides information and skills related to HPE Synergy implementation, configuration, administration, and management. The content pack starts with an overview of the infrastructure, compute, storage and fabric options to help those specifying a composable solution. From there, the curriculum provides a baseline understanding for system administrators setting up and configuring the infrastructure, and then introduces the HPE OneView appliance. The later courses in the content pack provide the skills to manage the solution through common tasks.

Audience

This content pack is for system administrators, engineers and consultants who install, manage, and monitor HPE Synergy solutions. It is relevant to HPE ProLiant and HPE BladeSystem customers planning a move to composable infrastructure.

Prerequisites:

HPE recommends that students starting this content pack have basic server, storage and networking industry experience.

Content Pack objectives

Upon successful completion of this course, you should be able to:

- Explain the concept of composable infrastructure, including its technologies, components and benefits
- Explore the functional architecture of the HPE Synergy environment, including management infrastructure (HPE Synergy Composer, HPE Synergy Image Streamer, Frame Link Modules), compute modules, interconnect modules, local storage systems, power and cooling
- Identify, correctly position and cable the management and networking modules in a HPE Synergy frame
- Understand how to access the HPE OneView management appliance to initiate the hardware discovery; perform initial tasks to set-up hardware including the Composer and Image Streamer
- Navigate the HPE OneView dashboard, locate current information on firmware and server inventory, and generate basic reports; perform firmware updates using the integrated Smart Update Tool
- Have 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

Certifications and related examinations

None
Detailed course outline

### HPE Synergy Solutions Overview

This course presents an introduction to the HPE Synergy solution and prepares the learner to take more advanced training on HPE Synergy. The course includes the 2019 release of HPE Synergy with HPE OneView 5.0 features and next generation hardware components. Course topics include a tour of the HPE Synergy system and its components, installation and configuration information, coverage of the management interfaces and firmware updates, and troubleshooting.

- Module 1: What is HPE Synergy?
- Module 2: Product Overview
- Module 3: Hardware Installation and Configuration
- Module 4: Software Installation and Configuration
- Module 5: Software Management and Use
- Module 6: Troubleshoot and Resolve
- Module 7: Repair
- Module 8: Use Cases

### HPE OneView Overview and Configuration for Synergy

This self-paced course covers the features and functions of HPE OneView in relation to the configuration and management of HPE Synergy solutions. Students learn to navigate the HPE OneView dashboard and use it to locate current information related to firmware versions and server inventory, and to generate basic reports. Students then perform initial tasks to set up hardware and configure HPE Synergy Composer and Image Streamer.

- Module 1: HPE Synergy Overview
- Module 2: HPE OneView Dashboard
- Module 3: HPE OneView Reporting
- Module 4: HPE OneView Resource Model
- Module 5: Getting Started with HPE OneView
- Module 6: Unified API—Automating Synergy Frame Logical Configuration with PowerShell
- Module 7: Firmware and Driver Updates with Smart Update Tools

### HPE Synergy Administration

This course provides instruction on HPE Synergy configuration, administration, management, troubleshooting and maintenance. This hands-on course covers day-to-day administration skills on HPE Synergy Composer, HPE Image Streamer, storage module, compute module, frame management, fabric connectivity, multi-frame domains and server profile management. Students also learn about HPE Global Dashboard features.

- Module 1: HPE Synergy Overview
- Module 2: HPE Synergy Image Streamer
- Module 3: Cabling, Configuration, and Hardware Setup
- Module 4: Cabling and Setup
- Module 5: Working with HPE OneView for Synergy and Image Streamer GUI
- Module 6: Management and Troubleshooting
- Module 7: Scaling within a Management Ring
- Module 8: Firmware Update Best Practices
- Module 9: Remote Support and Monitoring
- Module 10: HPE Synergy-Related Information Sources and Services
- Module 2: Exploring HPE Synergy
- Module 3: Configuring Connectivity
- Module 4: Configuring Storage
- Module 5: Creating LIGs, EG, LE
- Module 6: Using Server Profiles
- Module 7: Using Global Dashboard
- Module 8: Updating Firmware
- Module 9: Maintaining HPE Synergy

### Lab Outline

- Module 1: Exploring HPE Synergy
- Module 2: Configuring Connectivity
- Module 3: Configuring Storage
- Module 4: Creating LIGs, EG, LE
- Module 5: Using Server Profiles
- Module 6: Using Global Dashboard
- Module 7: Updating Firmware
- Module 8: Maintaining HPE Synergy
Using REST API with HPE OneView

In this course, students learn to work with the HPE OneView REST API. They create/edit/remove resources with the REST API using different access methods—through Postman, cURL, and PowerShell. Students also see demonstrations of each topic and then have the chance to practice within a virtual lab environment.

- Module 1: Course Introduction
- Module 2: Rest API Resources and Operations
- Module 3: Tools and Techniques for Exploring and Troubleshooting HPE OneView APIs

Lab Outline

- Lab 01 – Exploring the HPE Synergy DCS Environment
  Course Introduction
- Lab 02 – REST API
- Lab 03 – Using the OneView PowerShell Library for REST API Scripting

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