Hewlett Packard Enterprise

HPE Synergy Administration with HPE OneView

H0LN3S

Course ID	H0LN3S
Duration	3 days
Format	ILT/vILT
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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, storage module, compute modules, frame management, fabric connectivity, multi-frame domains and server profile management.

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Audience

- System administrators, engineers and consultants who install, manage, and monitor HPE Synergy systems
- New HPE Synergy customers or HPE BladeSystem c-Class customers interested in HPE Synergy

Pre-requisite

Basic networking and HPE OneView experience is strongly recommended, or complete the following courses:

- H0LN2AAE HPE Synergy Overview WBT
- H0LP6AAE HPE OneView Overview and Configuration for Synergy

Course objectives

At the conclusion of this course, the student will be able to:

- Introduce composable infrastructure (basic concepts) and HPE Synergy domains
- Explore the functional architecture of the HPE Synergy environment, including management infrastructure (HPE Synergy Composer and Frame Link Modules), compute modules, interconnect modules, local storage systems, power and cooling
- Review the HPE Synergy portfolio and equipment capabilities
- Explain the HPE Synergy master/satellite interconnects, topology and cabling

Detailed course outline

Module 0: HPE Synergy Administration Course Overview	• Introduce composable infrastructure (basic concepts) and HPE Synergy domains
	• Explore the functional architecture of the HPE Synergy environment
	  – Management infrastructure (HPE Synergy Composer and Frame Link Modules)
	  – Compute modules
	  – Interconnect modules
	  – Local storage systems
	  – Power and cooling
		• Review the HPE Synergy portfolio and equipment capabilities
		• Explain the basics of the HPE Synergy master/satellite interconnects topology and cabling

Module 1 HPE Synergy Solution	• Solution overview
	  – Planning steps
	  – Configuration steps
	• Hardware overview
	• Management appliances
		• Frame management cabling
		• Power cabling
		• Interconnect link topology
		• Accessing HPE Synergy Composer

Module 2: HPE Synergy Cabling	• Ethernet modules • Interconnect link topology	• Ethernet traffic flow
Module 3: HPE Synergy Networking	• Network connectivity settings • Address identifier service • Network, network sets • Logical interconnect groups	• Enclosure groups • Logical enclosure • Interconnect settings, LACP load balancing

Module 4: HPE Synergy Storage	• SAN configuration
	• Storage management
	• SAN Manager
	• Networks
	• Zoning
	• Fabric
		• Composable arrays
		• Volumes and volume templates
		• Storage options
		  – Storage array
		  – HPE Synergy D3940 Storage Module

Module 5: HPE Synergy Composability	• Server hardware – HPE Synergy Gen10/Gen11 Compute, HPE Integrated Lights Out 5/6 • Server hardware types • Server profile template	• Server profile • Physical addressing • Compliance
Module 6: HPE Synergy Firmware	• Current HPE OneView Updates • Acquiring firmware • Interconnect firmware updates • Compute firmware • OS tools • Appliance firmware	• Upgrading hardware • Preparing to upgrade • Best practices • Tools • Compliance • References

| Module 7: HPE Synergy Scaling | • Scaling frames in HPE Synergy

• Adding a remote management ring | • Frictionless scaling of a logical enclosure
    – The procedure for scaling from one to two frames
    – The procedure for scaling from two to more frames
    – Scaling with 25/50 Gb interconnect link modules |
| Module 8: HPE Synergy Maintenance and Growth | • Maintenance topics

• Remote management ring

• Adding frames

• Composer upgrades | • Composer migration

• Flm move to 4 port

• Changing Ethernet fabric

• New LIG\|EG, reparent LE |

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