

HPE Synergy Administration with HPE OneView H0LN3S

HPE course number	H0LN3S
Course length	3 days
Delivery mode	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. Students also learn about HPE Global Dashboard features.

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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

Prerequisites

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 with HPE OneView Course Overview	<ul style="list-style-type: none"> • Introduce composable infrastructure (basic concepts) and HPE Synergy domains • Explore the functional architecture of the HPE Synergy environment <ul style="list-style-type: none"> – Management infrastructure (HPE Synergy Composer and Frame Link Modules) – Compute modules – Interconnect modules – Local storage systems – Power and coolin 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Solution overview <ul style="list-style-type: none"> – Planning steps – Configuration steps • Hardware overview • Management appliances 	<ul style="list-style-type: none"> • Frame management cabling • Power cabling • Interconnect link topology • Accessing HPE Synergy Composer
Module 2: HPE Synergy Cabling	<ul style="list-style-type: none"> • Ethernet modules • Interconnect link topology 	<ul style="list-style-type: none"> • Ethernet traffic flow
Module 3: HPE Synergy Networking	<ul style="list-style-type: none"> • Network connectivity settings • Address identifier service • Network, network sets • Logical interconnect groups 	<ul style="list-style-type: none"> • Enclosure groups • Logical enclosure • Interconnect settings, LACP load balancing
Module 4: HPE Synergy Storage	<ul style="list-style-type: none"> • SAN configuration • Storage management • SAN Manager • Networks • Zoning • Fabric 	<ul style="list-style-type: none"> • Composable arrays • Volumes and volume templates • Storage options <ul style="list-style-type: none"> – Storage array – HPE Synergy D3940 Storage Module
Module 5: HPE Synergy Composability	<ul style="list-style-type: none"> • Server hardware <ul style="list-style-type: none"> – HPE Synergy Gen10 Compute, HPE Integrated Lights Out 5 • Server hardware types • Server profile template 	<ul style="list-style-type: none"> • Server profile • Physical addressing • Compliance
Module 6: HPE Synergy Firmware	<ul style="list-style-type: none"> • Current HPE OneView Updates • Acquiring firmware • Interconnect firmware updates • Compute firmware • OS tools • Appliance firmware 	<ul style="list-style-type: none"> • 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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