

# Integrating HPE Synergy Solutions

## Exam Description

This certification validates candidates' ASE level skills integrating HPE Synergy solutions. Successful candidates will be able to demonstrate appropriate expertise with:

- Planning and designing Synergy solutions
- Installing, configuring, and setting up Synergy solutions
- Troubleshooting Synergy solutions
- Managing, monitoring, and maintaining Synergy solutions

## Ideal Candidate For This Exam

Typical candidates for this exam are IT professionals seeking to acquire the HPE ASE - Synergy Solutions Integrator V1 certification and who already hold the HPE ATP - Server Solutions V2 or V3 and HPE Product Certified - OneView. HPE recommends a minimum of two years HPE integration experience with server solutions. Candidates are expected to have industry standard server technology knowledge and skills through training and/or hands-on experience.

## Exam Contents

This exam has 60 questions. Here are types of questions to expect:

- Input Numbers
- Matching
- Multiple choice (multiple responses)
- Multiple choice (single response)
- Drag-and-drop
- Point and click

## Advice To Help You Take This Exam

PLEASE NOTE: Training supporting the preparation of this exam has been replaced by the newly launched Implementing HPE Composable Infrastructure Solutions (ID: 01122329).

- Complete the training and review all course materials and documents before you take the exam.
- Exam items are based on expected knowledge acquired from job experience, an expected level of industry standard knowledge, or other prerequisites (events, supplemental materials, etc.).
- Successful completion of the course alone does not ensure you will pass the exam.
- Read this HPE Exam Preparation Guide and follow its recommendations.
- Visit HPE Press for additional reference materials, study guides, practice tests, and HPE books.

## Supporting resources

These recommended resources help you prepare for the exam:

Resource Type	Resource ID	Resource Name
Course	01122329	Implementing HPE Composable Infrastructure Solutions, Rev. 19.21

## Objectives

This exam validates that you can:

<b>Exam ID</b>	HPE0-S50
<b>Exam type</b>	Proctored
<b>Exam duration</b>	1 hour 30 minutes
<b>Exam length</b>	60 questions
<b>Passing score</b>	68%
<b>Delivery languages</b>	Japanese, English

Register for this Exam

You need an HPE Learner ID and a Pearson VUE login and password.

No reference material is allowed at the testing site. This exam may contain beta test items for experimental purposes.

During the exam, you can make comments about the exam items. We welcome these comments as part of our continuous improvement process.

Percentage of Exam	Sections/Objectives
17%	Plan and Design Synergy Solutions -Given an architect's design, validate the solution is complete and the site is prepared for implementation. -Given a scenario, validate the solution design for compatibility and workload requirements against the existing infrastructure -Given a scenario, identify the required components for an implementation plan.
42%	Install, Configure, and Set Up Synergy Solutions -Describe the installation process and start-up procedure for solution components. -Describe how the advanced configuration of the solution components is performed. -Describe how to validate proper solution functionality.
23%	Troubleshoot Synergy Solutions -Given a scenario, use the appropriate tools to analyze an identified issue. -Given a scenario with an issue, explain appropriate steps for resolution. -Given a defined issue and action plan, explain the consequences and implications of the proposed actions. -Identify appropriate measures to limit reoccurrences of resolved issues.
18%	Manage, Monitor, and Maintain Synergy Solutions -Identify appropriate tools to gather performance data and establish a baseline. -Given a customer environment, determine installation order of upgrades and the potential effect on the customer's environment. -Given a customer's performance data and solution design, identify the bottleneck. -Given performance analysis information, identify changes in customer workloads and determine the necessary steps to include in the action plan. -Using support matrices, evaluate software and firmware compatibility. -Describe methods for modifying configuration of components, including configuration templates, to meet changing customer requirements.

## Sample questions

Sample questions are provided only as examples of question style, format and complexity/difficulty. They do not represent all question types and do not reflect all topic areas. These sample questions do not represent a practice test.

1. A customer needs to deploy Microsoft Exchange on a recently-deployed Synergy system, but is concerned about over-provisioning the Exchange server environment.

Which technology minimizes the risk of over-provisioning?

- a. Fluid Resource Pools
- b. Frictionless updates
- c. Multimodule Link Aggregation Group (MLAG)
- d. Stateless servers with booting from SAN

2. How many 40Gb Ethernet Uplink ports can be used per HPE Virtual Connect SE 40Gb F8 module?

- a. 2
- b. 4
- c. 6
- d. 8

3. In an HPE OneView 3.0 environment, a customer is attempting to create a vMotion network and has assigned the VLAN ID 1 to the network. However, the network will not allow the customer to assign the VLAN 1.

What is the reason the VLAN cannot be assigned?

- a. VLAN 1 is only supported for use with iSCSI networks.
- b. VLAN 1 is not supported in Synergy Virtual Connect Modules.
- c. VLAN 1 was not assigned to the address pool prior to creating the network.
- d. VLAN 1 is reserved for the default IPv4 address range.

4. Which tool should a Synergy integrator use to determine the power requirements of an HPE Synergy solution?

- a. HPE Product Bulletin
- b. HPE SalesBuilder for Windows
- c. HPE Synergy Planning Tool
- d. HPE SPOCK

5. A Synergy integrator needs to update multiple server profiles on Synergy Composer from the Server profile template.

Which REST API URI should the integrator use?

- a. /oneview/server-profiles
- b. /rest/server-profiles-templates
- c. /oneview/server-profiles-templates
- d. /rest/server-profiles

6. A customer needs to ensure that it has power line redundancy in its HPE Synergy 12000 frames. The customer requires N+1 power connections to two separate power phases (A and B).Based on HPE best practices, which power line redundancy can the Synergy integrator configure? (Select two.)

- a. Connect power supplies 1, 2, and 4 to the A-side power distribution unit.
- b. Connect power supplies 1, 2, and 3 to the A-side power distribution unit.
- c. Connect power supplies 4, 5, and 6 to the B-side power distribution unit.
- d. Connect power supplies 3, 5, and 6 to the B-side power distribution unit.
- e. Connect power supplies 1, 2 to the A-side power distribution unit.
- f. Connect power supplies 4, 5 to the B-side power distribution unit.

7. A customer has a new Synergy 3-Frame environment with redundant 12GB SAS interconnect modules, redundant Virtual Connect SE 40Gb F8 Module interconnect modules and 36 compute modules.

What is the minimum number of IPv4 addresses needed for the management address pool?

- a. 36
- b. 38
- c. 41
- d. 44

8. A customer has a single frame with seven compute modules in bays 1-7. The customer also has an HPE Synergy 12Gb SAS Connection Module in slot 1. The customer recently made a change to require high availability for its storage.

What should the Synergy integrator do to meet the customer's requirement for high availability?

- a. Add another HPE Synergy 12Gb SAS Connection Module to bay 4.
- b. Move the compute module from bay 7 to bay 12.
- c. Move the mezzanine Card to slot 2 on each compute module.
- d. Install an additional HPE D3940 storage module to support bays 7-12.

## Answers

This section provides answers to and references for the sample questions.

1. A customer needs to deploy Microsoft Exchange on a recently-deployed Synergy system, but is concerned about over-provisioning the Exchange server environment.

Which technology minimizes the risk of over-provisioning?

a. Fluid Resource Pools

- b. Frictionless updates
- c. Multimodule Link Aggregation Group (MLAG)
- d. Stateless servers with booting from SAN

2. How many 40Gb Ethernet Uplink ports can be used per HPE Virtual Connect SE 40Gb F8 module?

- a. 2
- b. 4
- c. 6
- d. 8

3. In an HPE OneView 3.0 environment, a customer is attempting to create a vMotion network and has assigned the VLAN ID 1 to the network. However, the network will not allow the customer to assign the VLAN 1.

What is the reason the VLAN cannot be assigned?

- a. VLAN 1 is only supported for use with iSCSI networks.
- b. VLAN 1 is not supported in Synergy Virtual Connect Modules.
- c. VLAN 1 was not assigned to the address pool prior to creating the network.
- d. VLAN 1 is reserved for the default IPv4 address range.

4. Which tool should a Synergy integrator use to determine the power requirements of an HPE Synergy solution?

- a. HPE Product Bulletin
- b. HPE SalesBuilder for Windows
- c. HPE Synergy Planning Tool
- d. HPE SPOCK

5. A Synergy integrator needs to update multiple server profiles on Synergy Composer from the Server profile template.

Which REST API URI should the integrator use?

- a. /oneview/server-profiles
- b. /rest/server-profiles-templates
- c. /oneview/server-profiles-templates
- d. /rest/server-profiles

6. A customer needs to ensure that it has power line redundancy in its HPE Synergy 12000 frames. The customer requires N+1 power connections to two separate power phases (A and B). Based on HPE best practices, which power line redundancy can the Synergy integrator configure? (Select two.)

- a. Connect power supplies 1, 2, and 4 to the A-side power distribution unit.
- b. Connect power supplies 1, 2, and 3 to the A-side power distribution unit.
- c. Connect power supplies 4, 5, and 6 to the B-side power distribution unit.
- d. Connect power supplies 3, 5, and 6 to the B-side power distribution unit.
- e. Connect power supplies 1, 2 to the A-side power distribution unit.
- f. Connect power supplies 4, 5 to the B-side power distribution unit.

7. A customer has a new Synergy 3-Frame environment with redundant 12GB SAS interconnect modules, redundant Virtual Connect SE 40Gb F8 Module interconnect modules and 36 compute modules.

What is the minimum number of IPv4 addresses needed for the management address pool?

- a. 36
- b. 38
- c. 41
- d. 44

8. A customer has a single frame with seven compute modules in bays 1-7. The customer also has an HPE Synergy 12Gb SAS Connection Module in slot 1. The customer recently made a change to require high availability for its storage.

What should the Synergy integrator do to meet the customer's requirement for high availability?

- a. Add another HPE Synergy 12Gb SAS Connection Module to bay 4.
- b. Move the compute module from bay 7 to bay 12.
- c. Move the mezzanine Card to slot 2 on each compute module.
- d. Install an additional HPE D3940 storage module to support bays 7-12.

## **For more information**

Contact our program

© Copyright 2020 Hewlett Packard Enterprise. The information contained herein is subject to change without notice. The only warranties for HPE products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HPE shall not be liable for technical or editorial errors or omissions contained herein.

Information is as of December 2019, Revision 8