HPE0-S54 Dumps

Designing HPE Server Solutions

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NEW QUESTION 1
Match the use case to the management component they should use.

Component	Use Case
HPE Apollo Platform Manager	A customer needs outlet level power control
HPE Insight Cluster Management Utility	A customer needs to control power on individual Apollo servers
HPE Intelligent Power Distribution Unit	A customer needs to create a server profile
HPE Synergy Composer	A customer needs to update BIOS settings in an Apollo Server

A. Mastered
B. Not Mastered

Answer: A

Explanation:
HPE Apollo Platform Manager – A customer needs to control power on individual Apollo servers
HPE Insight Cluster Management Utility – A customer needs to update BIOS settings in an Apollo Server HPE Intelligent Power Distribution Unit – A customer needs outlet level power control
HPE Synergy Composer – A customer needs to create a server profile

NEW QUESTION 2
An environmentally sensitive customer has a data center that operates with fresh air cooling. Which feature of HPE ProLiant Gen10 servers makes them suitable to operate in this environment?

A. HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Support
B. Intel® Xeon-Platinum 8180M Support
C. ASHRAE A4 compliance
D. ACPI 6.1 Compliance

Answer: C

NEW QUESTION 3
Where can you find customer-ready HPE content to describe the benefits of a solution you are recommending?

A. HPE Proposal Web
B. HPE OneConfig Advanced
C. HPE Synergy Planning Tool
D. HPE Single Point of Connectivity Knowledge

Answer: A

NEW QUESTION 4
A financial customer has a remote office that requires a significant amount of computing resources, but has no local IT staff. They need simple and affordable management and disaster recovery of their site.
Which solution should you recommend to meet this customer's needs?

A. HPE ConvergedSystem 300
B. HPE SimpliVity 380
C. HPE StoreOnce 5100
D. HPE Serviceguard for Linux

Answer: B

NEW QUESTION 5
Your customer has 500 SY480 Gen10 compute nodes running a variety of physical and virtual workloads. They are looking for a way to get a unified view of the entire environment.
Which product should you recommend?

A. HPE OneView for VMware vCenter
B. HPE OneView Global Dashboard
C. HPE OneView for Microsoft System Center
D. HPE OneView for Red Hat Enterprise Virtualization

Answer: B

NEW QUESTION 6
A customer has a two frame Synergy setup with two Virtual Connect SE 40Gb F8 modules and two 20Gb Interconnect Link Module interconnect modules. The customer needs to expand into a third frame.
Which interconnect modules should be used to extend the logical enclosure?

A. 2 x 20Gb Interconnect Link Modules
B. 1 x Virtual Connect SE 40Gb F8 Interconnect Link Modules and 1 x 20Gb Interconnect Link Modules
C. 2 x Virtual Connect SE 40Gb F8 Interconnect Link Modules
D. 4 x Virtual Connect SE 40Gb F8 Interconnect Link Modules

Answer: A

NEW QUESTION 7
A customer exceeded the number of available VLANs on their network. To resolve this issue, they enabled VXLAN. They inquire about upgrading their servers with the FlexFabric 650 series NIC after this change.
What is the benefit of tunnel offload?

A. supports data deduplication when VXLAN is enabled
B. decreases memory load caused by VXLAN
C. supports data inflight encryption when VXLAN is enabled
D. decreases CPU load caused by VXLAN

Answer: D

NEW QUESTION 8
A customer is expanding their blade based infrastructure with HPE Synergy platform. The customer is familiar with HPE Virtual Connect Manager and wants to know if the same management procedures can be used to manage HPE Synergy platform.
How should you answer the customer's concern?

A. HPE Synergy can be managed by HPE Composer, which is running an embedded version of the HPE OneView.
B. HPE Synergy must be managed with HPE Systems Insight Manager
C. HPE Synergy supports Virtual Connect modules, so it can be managed using Virtual Connect Manager
D. HPE Synergy can be managed using Virtual Connect Manager as long as an additional license is purchased

Answer: B

NEW QUESTION 9
A customer is planning a new virtualization project and requests assistance with preparing a proposal for his management team.
Which financial information can be generated using the Alinean toolset? (Choose two.)

A. licensing costs
B. payback period
C. cash flow
D. bill or materials
E. roles and responsibilities

Answer: BC

NEW QUESTION 10
A customer has c7000 enclosures with Virtual Connect 20/40 F8 interconnect modules providing Ethernet and Fibre Channel connectivity. They are starting a proof of concept (PoC) to evaluate using a Synergy with the HPE Virtual Connect SE 40Gb F8 interconnect module as the next generation infrastructure.
Which additional component is required to enable the proof of concept solution to match the connectivity functionality of the current solution?

A. Image Streamer
B. a Fibre Channel license
C. OneView Advanced
D. iLO Advanced Premium Security

Answer: B

NEW QUESTION 10
A customer is considering installing a Synergy frame in an existing rack where their c7000 chassis is currently installed.
Which question should you ask to ensure the new frame will be supported in the rack?

A. Are there any third party servers installed?
B. How deep is the existing rack?
C. Is there a UPS installed in the rack?
D. How wide is the existing rack?

Answer: B

NEW QUESTION 14
You have a customer who has thousands of ProLiant servers spanning Gen8, Gen9, and Gen10 across multiple server models (Rack, Tower, Blade, Apollo), all

licensed with iLO Advanced. The customer needs an effective way to inventory and update the firmware across the environment.
Which tool should you recommend?

A. iLO Amplifier Pack
B. OneView
C. Intelligent Provisioning
D. SUM (System Update Manager)

Answer: A

NEW QUESTION 19
A customer received their three frame Synergy system. However, they are missing a link cable that connects the frame link module between the frames.
Which type of cable do they need?

A. DAC
B. MPO
C. CAT6A
D. AOC

Answer: A

NEW QUESTION 23
A customer temporarily needs to add an additional network connection to a provisioned server that is being actively managed by OneView. The server is currently powered down. Which top level option should they click as the first step?

OneView

General	Servers	Networking	Storage	Facilities	
Dashboard	Server Profiles	Networks	Volumes	Data Centers	Settings
Activity	Server Profile Templates	Network Sets	Volume Templates	Racks	Users and Groups
Firmware Bundles	Enclosure Groups	Logical Interconnect Groups	Storage Pools	Power Delivery Devices	
Reports	Logical Enclosures	Logical Interconnects	Storage Systems	Unmanaged Devices	
	Enclosures	Interconnects	SANs		
	Server Hardware	Logical Switch Groups	SAN Managers		
	Server Hardware Types	Logical Switches			
		Switches			

A. Mastered
B. Not Mastered

Answer: A

Explanation:

OneView

General	Servers	Networking	Storage	Facilities	
Dashboard	Server Profiles	Networks	Volumes	Data Centers	Settings
Activity	Server Profile Templates	Network Sets	Volume Templates	Racks	Users and Groups
Firmware Bundles	Enclosure Groups	Logical Interconnect Groups	Storage Pools	Power Delivery Devices	
Reports	Logical Enclosures	Logical Interconnects	Storage Systems	Unmanaged Devices	
	Enclosures	Interconnects	SANs		
	Server Hardware	Logical Switch Groups	SAN Managers		
	Server Hardware Types	Logical Switches			
		Switches			

NEW QUESTION 26
A customer is using HPE Smart Update Manager (SUM) for firmware update. They plan to add 100 Gen10 ProLiant servers, and they are concerned about

whether HPE SUM will be able to support this size of installation.
What other option could the customer use for firmware updates that has increased scalability?

A. iLO Advanced Premium Security Edition
B. Insight Control server provisioning
C. Insight Cluster Management Utility
D. iLO Amplifier Pack

Answer: D

NEW QUESTION 30
You need to demonstrate the runtime firmware verification scan functionality on a ProLiant DL380 Gen10 server. You find that the option is not available in the UEFI interface.
What is the most likely cause of the problem?

A. The server boot mode is set to UEFI
B. The Onboard Administrator has not been initialized
C. The file firmware-ilo5-1.10.1.1.x86_64.rpm is the incorrect version
D. The required iLO license has not been installed

Answer: D

NEW QUESTION 34
You prepared a proposal for a customer that plans to deploy Hyper-V clusters that include network adapters with RoCE support. The customer would like to know why this specific adapter was included in the proposal.
How would you explain your choice?

A. RoCE adapters offer Secure Encryption functionality that can help to secure migration traffic
B. RoCE adapters are the only adapters certified to use in Hyper-V based cluster
C. RoCE adapters can use 100 Gb/s speed for internal virtual machine migrations
D. RoCE adapters will improve performance for live migration and Microsoft SMB Direct environments

Answer: D

NEW QUESTION 39
You are introducing Synergy to a new customer. Which tool can you use to demonstrate the physical components of the Synergy frame and how they connect?

A. HPE Product Bulletin
B. HPE Synergy Planning Tool
C. HPE Product Tour
D. HPE PartSurfer

Answer: B

NEW QUESTION 42
Which product automatically generates reports on collected lifecycle management events?

A. HPE ONEView Global Dashboard
B. HPE OneView
C. Insight Online
D. Insight Control

Answer: C

NEW QUESTION 43
A customer is planning an expansion and they are considering iLO Amplifier as their future firmware management tool. They need to plan their budget and learn which additional licenses will be required.
What is the minimum license that will meet this customer's upgrade path needs?

A. iLO Advanced Premium Security Edition
B. iLO Advanced license
C. Insight Control server provisioning license
D. Insight Cluster Management Utility license

Answer: B

NEW QUESTION 46
A customer is purchasing a large number of servers for a business critical application. They are concerned about return to service times and want immediate assistance with critical events.
Which HPE service meets the customer's needs?

A. HPE Proactive Service Credits
B. HPE Proactive Care Advanced
C. HPE Proactive Care
D. HPE Foundation Care

Answer: C

NEW QUESTION 48

You are configuring a new server for a customer. The customer has given you the following information regarding their environment:

- 2 processors with 22 cores
- 256GB RAM
- 600GB of usable internal storage
- 10GB network, dual connections
- iLO Advanced
- 3 years of 7x24 basic support

Which additional information do not need to determine the best option for internal storage?

A. Does the application require a large memory footprint
B. Does the application require RoCE capable adapters?
C. Is the application workload sensitive to I/O latency?
D. Will a Fibre Channel card be required?

**Answer:** C

NEW QUESTION 49

A customer needs a solution to support Online Transaction Processing (OLTP) and database workloads. Which Gen10 technology would optimize the environment for the customer?

A. REST API
B. Silicon Root of Trust
C. workload profiles
D. OneView

Answer: C

NEW QUESTION 53

Refer to the exhibit.
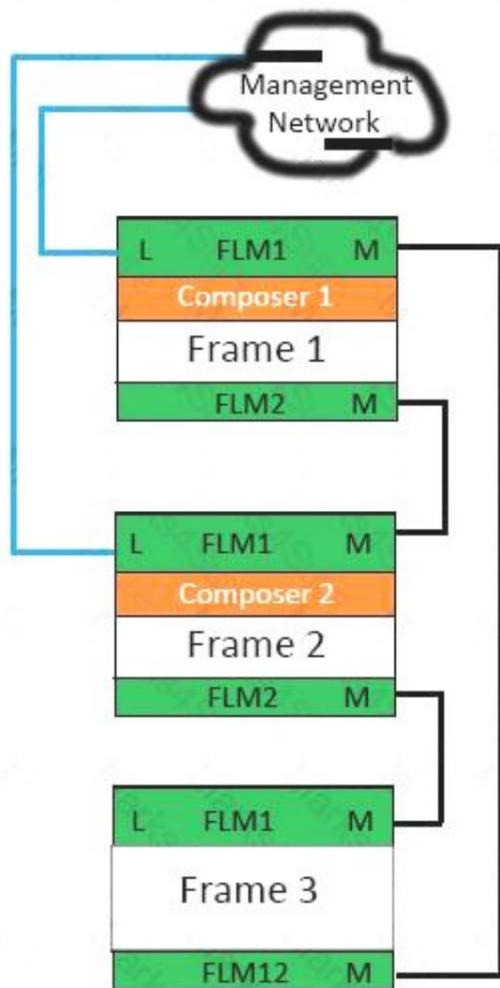
You are installing three Synergy frames for a customer PoC in the configuration shown. The composer is unable to discover the frames.
What is the most likely cause of the problem?

A. Another composer is needed Frame 3
B. Composer 2 is in the wrong frame
C. The management network should be connected to the top and bottom frames
D. The management ring should be connected using the FLM link ports

Answer: A

NEW QUESTION 56

A customer uses VLANs for tenant network separation. However, they are not satisfied with the scalability limits of the setup.
Which networking technology will help the service provider to overcome these performance limits?

A. data center bridging (DCB)

B. RDMA over Converged Ethernet (RoCE)
C. network virtualization generic routing encapsulation (NVGRE)
D. remote direct memory access (RDMA)

Answer: C

NEW QUESTION 60
Which product provides an interface for customers to monitor device health, hardware events, and contract and warranty status?

A. Intelligent Provisioning
B. Insight Online
C. HPE OneView Global Dashboard
D. HPE OneView

Answer: B

NEW QUESTION 61
A customer completed a successful Synergy PoC consisting of a single frame with dual composers and dual Virtual Connect SE 40Gb F8 modules. The customer needs additional frames to allow for growth. They require 20GB to each compute module.
How may additional frames can be added to the existing logical enclosure?

A. 1
B. 2
C. 3
D. 5

Answer: C

NEW QUESTION 65
Your customer needs to provide an automated, energy-aware environment that will automatically track power usage and document configurations.
Which HPE technology will meet your customer's needs?

A. Smart Storage Battery
B. Thermal Discovery Services
C. Intelligent Power Discovery
D. Intelligent System Tuning

Answer: C

NEW QUESTION 70
What must a customer consider when adding a connection to a Server Profile Template? (Select two.)

A. Server Profiles will automatically be refreshed
B. The associated Servers will need to be rebooted
C. Additional Server Profiles will need to be created
D. The associated Server Profiles will be flagged as inconsistent
E. Server Profiles will need to be updated from the template

Answer: BE

NEW QUESTION 73
A customer is using a DL380 Gen10. They attempt to boot an installation media ISO with iLO Virtual Media, and the system fails to access the ISO. What are the most likely causes of this issue? (Select two.)

A. HPSSA drives are configured for RAID 1 and not RAID 5
B. Legacy Boot is not enabled and the media is not UEFI compatible
C. Secure Boot has derived access to the ISO
D. The ISO operating system is not supported by HPE
E. UEFI is not configured for iSCSI initiator support

Answer: CD

NEW QUESTION 76
Your customer has completed a successful Synergy Proof of Concept (PoC) consisting of a single frame with dual composers and dual Virtual Connect SE 40Gb F8 modules.
The customer wants to:
▶ add a second frame before they move into production
▶ have unified management
▶ have a separate logical enclosure for each frame
What are the basic steps to add the second frame? (Choose three.)

A. Move the standby composer to the second frame.
B. Disconnect the existing management ring, and then cable the FLM (frame link module) in the first frame to the FLMs in the second frame.
C. Install a satellite module in the first frame.
D. Move the bottom VC module from the first frame to the second.
E. Move one of the uplinks from the FLM in the first frame to a FLM in the second.

Answer: ABE

NEW QUESTION 77
A customer is learning about the performance enhancements of a new DL380 Gen10 system. How does this system help with performance problems?

A. enables faster L4 cache on CPU
B. provides scalable persistent memory
C. provides compatibility with Intel Broadwell processors
D. eliminates the need for Service Level Agreements for Cloud services and VDI

Answer: B

NEW QUESTION 78
Match the HPE management tool to the customer situation. (Each customer situation may be used more than once or not at all.)

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Built in tools managing single systems – not used
Cloud-based tools to manage multiple systems – Remote Support and Insight Online
Customer site tools to manage multiple systems – HPE OneView and iLO Amplifier Pack

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NEW QUESTION 83
A c7000 customer wants to expand their server environment. You want to encourage them to move to Synergy to prepare them for the future.
Which question should you ask?

A. Is there a requirement for enhanced security on the management network?
B. Do they want to maximize the memory footprint of their servers?
C. Does their application workload benefit from persistent memory?
D. Are they planning to purchase ProLiant Gen10 servers as part of the project?

Answer: A

NEW QUESTION 87
Your customer boots to the HPE Smart Scripting toolkit via PXE to automatically configure their new systems. They are moving to a new data center which has a policy that PXE boot will not be allowed in the environment.
What is the closest alternative to use when deploying Gen10 in their new data center?

A. iLO Federation running the Smart Scripting Toolkit scripts
B. iLO RESTfull API running the Smart Scripting Toolkit scripts
C. Insight Control server provisioning running the Smart Scripting Toolkit scripts in a build plan
D. HTTP/HTTPS Boot to the Smart Scripting Toolkit

Answer: D

NEW QUESTION 88
While installing a three frame Synergy solution, only two of the frames are identified during the discovery process.
What should you do to get resolution?

A. Remove and re-insert the standby Composer
B. Issue a refresh command to the enclosure
C. Open the front panel of the Composer, and read the error message
D. Validate Frame Link Module topology

Answer: D

NEW QUESTION 93
A customer plans to use RESTful API to deploy their rack of DL380 Gen10 system. How does use of this protocol support the customer? (Select two.)

A. support multiple scripting languages
B. Secure remote scripting
C. Ability to run scripts against multiple servers
D. Boot via SFTP
E. Boot via HTTP

Answer: AB

NEW QUESTION 95
What is required to enable Jitter Smoothing technology? (Choose two.)

A. HPE Apollo
B. ProLiant Gen 10
C. HPE Synergy
D. HPE Cloudline
E. iLO5 Advanced

Answer: BE

NEW QUESTION 99
A customer needs a new high frequency trading cluster. Their current cluster has non-deterministic performance and undesirable latency. Because high frequency trades are extremely time-sensitive transactions, the customer cannot tolerate the microseconds of delay that can randomly occur on their current cluster.
Which iLO 5 Gen 10 feature can you propose to address this technical requirement?

A. Turbo Cores
B. Jitter Smoothing
C. Persistent Memory
D. NVMe Drives

Answer: C

NEW QUESTION 103
A customer uses VLANs in their network. They recently acquired another company and need to extend the number of VLANs to 7400 to accommodate the growth.
What should you advise?

A. Implement an IPv6 only environment
B. Edit the /etc/network/config file, and set VLAN_LIMIT=7401
C. Upgrade the NICs to models that support RoCE
D. Transition to a VXLAN or NVGRE network configuration

Answer: D

NEW QUESTION 106
A customer wants a highly available storage solution inside HPE Synergy that is comparable via OneView and also accessible outside the enclosure to a DR site at another location.
Which product fits the customer's needs?

A. HPE StoreVirtual VSA
B. VMware vSAN
C. SEPH SUSE
D. HPE 3PAR StoreServ

Answer: A

NEW QUESTION 107
A customer that runs a database server needs high speed access to the database files. Which internal storage technology offers the best performance?

A. SAS Nearline
B. NVMe
C. SAS HDD
D. SATA HDD

Answer: B

NEW QUESTION 108
Match each HPE technology solution to the customer's business need that it can fulfill.

Technology		Business Need
HPE ConvergedSystems 500		Dedicated storage with a one-to-one server-to-storage ratio
HPE D2220sb Storage Blade	<	High Availability & Disaster Recovery
HPE SB3000c Tape Blade	>	Mission Critical workloads
HPE SimpliVity		One button Disaster Recovery
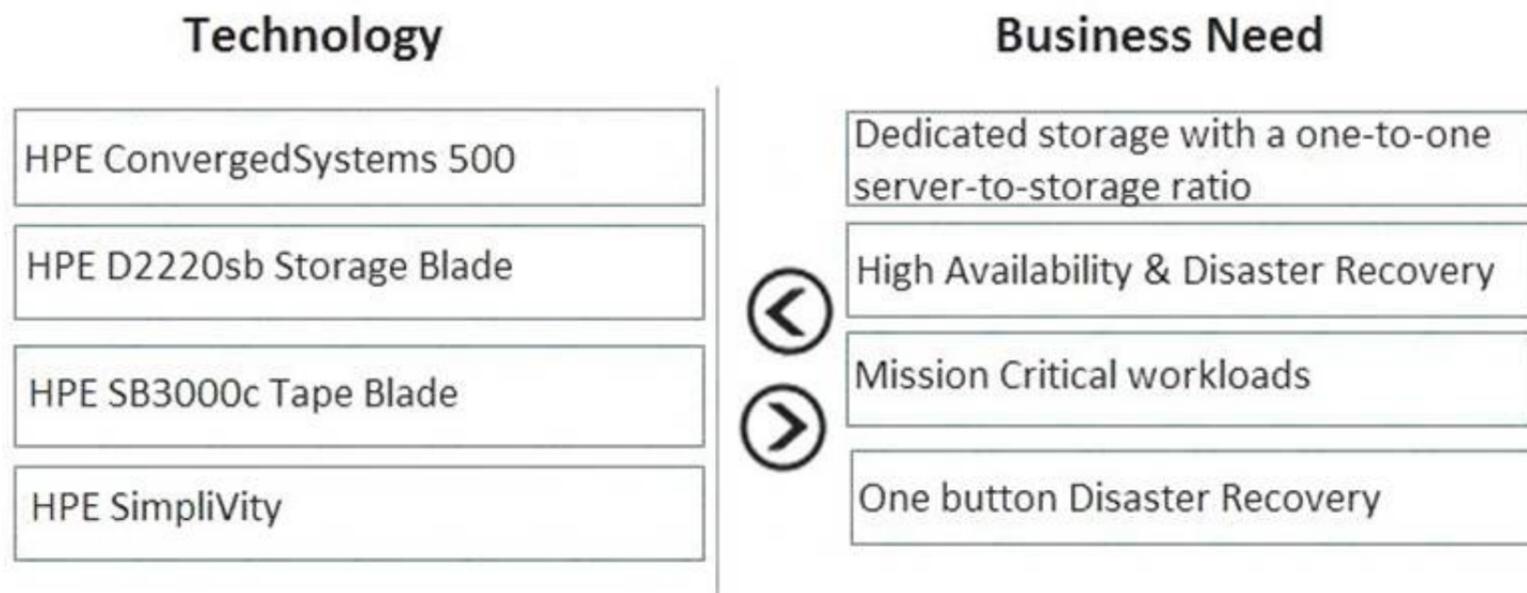
A. Mastered
B. Not Mastered

Answer: A

Explanation:
HPE ConvergedSystems 500 – Mission Critical workloads
HPE D2220sb Storage Blade – Dedicated storage with a one-to-one server-to-storage ratio
HPE SB3000c Tape Blade – One button Disaster Recovery
HPE SimpliVity – High Availability & Disaster Recovery

NEW QUESTION 112
A solution architect wants to verify compatibility between a CNA and a 3PAR system. The Solution Architect is looking for reference material on SAN components, configuration support, and best practices.
What should you use?

A. HPE Storage Sizer
B. Brocade Network Advisor (BNA)
C. Single Point of Configuration Knowledge (SPOCK)
D. HPE OneView Deployment and Management Guide

Answer: C

NEW QUESTION 113
You need to consolidate multiple BOMs, power requirements, and changing criteria of a Converged System due to the review of multiple reference architectures on Microsoft Exchange Server 2016. Which tool should you use?

A. HPE Sizer for Microsoft Exchange Server 2016
B. HPE Converged Infrastructure Solution Sizer Suite
C. HPE Sizer for Server Virtualization
D. Single Point of Connectivity Knowledge (SPOCK)

Answer: A

NEW QUESTION 117
A customer needs to migrate their current c7000 network and Fibre Channel infrastructure to a converged network.
Which interconnect module should the customer use?

A. HPE Flex10
B. HPE 8Gb Fibre Channel pass-through
C. HPE FlexFabric 20/40 F8
D. HPE 16Gb/24-port Fibre Channel switch

Answer: C

NEW QUESTION 121
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