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HP HPE7-V01 Exam Syllabus Topics:

Section	Objectives
Core Knowledge Areas	- Edge-to-Cloud workloads integration and architecture - Solution planning and positioning HPE products and services - Scenario-based problem solving and application - HPE GreenLake and cloud service models - Compute, storage, and networking solution design
Exam Objective	- Design and architect advanced HPE solutions across Edge-to-Cloud environments - Translate business requirements into complex, multi-site solutions - Consider all consumption models and hosting locations

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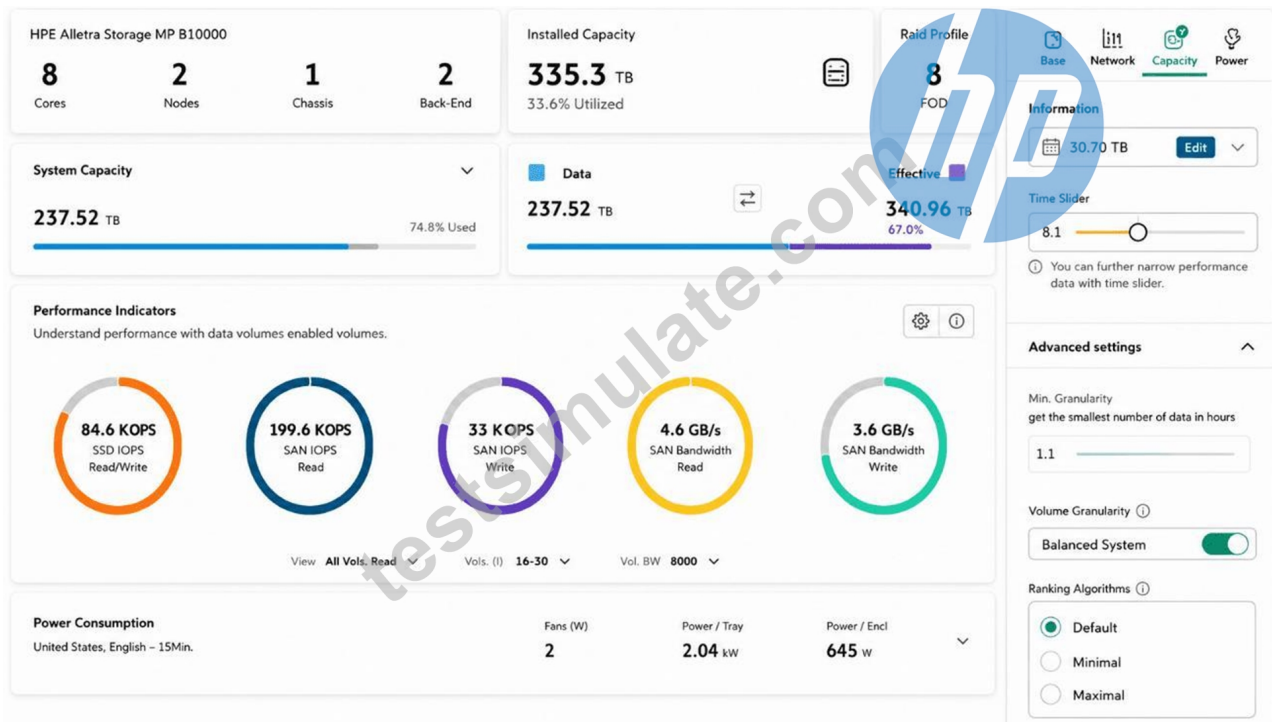
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HP Advanced HPE Edge-to-Cloud Solutions Written Exam Sample Questions (Q21-Q26):

NEW QUESTION # 21

Your customer has a requirement to support 500K IOP/s write speeds in their environment.



What change should you make to the configuration to achieve this?

- A. Replace the nodes with B91130 model and add additional drive shelf.
- B. Increase the amount of drives supported to achieve the requirement.
- C. Replace the nodes with B91160 model and add additional drive shelf and more drives.
- **D. Replace the nodes with B10230 model and add additional drive shelf and more drives.**

Answer: D

Explanation:

The correct answer is D because the requirement is not simply additional raw capacity; it is a write-performance target of 500K IOP/s. For HPE Alletra Storage MP B10000 designs, controller-node model selection, node count, shelf count, drive population, and media layout collectively determine whether the configuration can satisfy the performance envelope. Merely increasing the number of drives, as suggested in option C, does not guarantee that the front-end controller resources, CPU, cache, and back-end connectivity can sustain the required write workload. Options A and B use lower or inappropriate node selections for this stated requirement. The B10230 model, combined with additional shelf and drive resources, is the configuration change that aligns the controller and media resources with the required write I/O target. HPE's course outline places HPE Alletra Storage MP B10000 in both general enterprise solution design and database workload solution design, which is exactly the kind of workload-sensitive sizing exercise represented here. The proposal must be validated against the customer's required I/O profile, not only against usable capacity.

NEW QUESTION # 22

You are designing a solution for a customer that will support a virtualization workload based on HPE Synergy. Your customer has the following requirements:

- * Dual-socket HPE Synergy compute nodes running ESXi 8.x with maximum memory supported
 - * Each node should have access to shared storage from HPE Alletra Storage MP B10000
 - * All virtual machines should be protected against host failure
 - * All virtual machines with vGPU must be protected with Fault Tolerance
 - * All compute nodes should boot from drives located in the D3940 Storage Modules protected with RAID 1
 - * All frames should be managed as one logical enclosure to simplify management
 - * All compute nodes should support two network ports with the maximum Ethernet connectivity speed
- You are reviewing a proposal that you must verify. The proposal contains:
- * 3 HPE Synergy 12000 frames
 - * 2 HPE Synergy Composer2 modules
 - * 4 HPE Virtual Connect SE 100Gb F32 Modules for Synergy
 - * 4 HPE Synergy 50Gb Interconnect Link Modules
 - * 3 HPE Synergy D3940 Storage Modules, each with 20 SSD drives

- * 1152 core vSphere Enterprise Plus subscriptions
 - * 36 HPE Synergy 480 Gen11 compute nodes
- Each SY480 Gen11 is configured with:
- * A single Platinum CPU with 32 cores
 - * HPE Synergy 6820C 25/50Gb Converged Network Adapter
 - * HPE Synergy 5830C 32Gb Fibre Channel Host Bus Adapter
 - * HPE MR416i-o Gen11 12G SAS Mezzanine Controller

Which two statements are true regarding the proposal? (Select two.)

- A. To access HPE Alletra MP B10000 arrays, FC upgrade licenses for HPE Virtual Connect SE 100Gb F32 Modules for Synergy must be purchased.
- B. Two HPE Virtual Connect SE 100Gb F32 Modules for Synergy can be removed from the proposal because all requirements are met without them.
- C. HPE MR416i-o Smart RAID controller can be removed because there are no external SAS disk enclosures included in the proposal.
- D. vSphere Enterprise Plus subscriptions can be replaced with vSphere Standard subscriptions.
- E. 2 HPE Synergy 50Gb Interconnect Link Modules should be removed from the proposal, as the total number of interconnects required is six.

Answer: A,B

Explanation:

The correct answers are C and D. In a three-frame HPE Synergy logical enclosure using the primary /satellite fabric model, the HPE Virtual Connect SE 100Gb F32 modules act as the intelligent primary modules and HPE Synergy 50Gb Interconnect Link Modules extend connectivity into satellite frames.

A pair of F32 modules with the required satellite link modules can satisfy the fabric requirement; therefore, the extra two F32 modules can be removed if the design still preserves redundancy and required 25/50Gb downlink connectivity. Option D is also correct because Fibre Channel uplink functionality on the HPE Virtual Connect SE 100Gb F32 module requires a Synergy 32Gb FC Upgrade license. This is necessary when using the Synergy fabric to provide FC access to HPE Alletra Storage MP B10000.

Option B is false because the D3940 storage module still requires the appropriate SAS

/RAID path for boot-device protection. Option E is wrong because the stated FT/vGPU requirement makes Standard licensing an unsafe substitution. Reference/topics: HPE Synergy primary/satellite fabric, VC SE 100Gb F32, FC upgrade licensing, D3940 boot design, VMware subscription validation.

NEW QUESTION # 23

Your customer would like to improve the security of an existing physical and virtual environment. They are currently using the Synergy environment with the first generation of HPE Composer and Gen9 Synergy compute modules.

Which of the following changes would improve security?

- A. Add dedicated HPE OneView licenses to enable integration with Active Directory to provide extensive permission control within a physical environment.
- B. Implement the HPE OneView Global Dashboard that can be used to distribute encryption keys and CA- signed certificates to all managed nodes.
- C. Replace the Gen9 compute modules with Gen11, including HPE iLO, that provides the Silicon Root of Trust.
- D. Update the iLO firmware in the Gen9 Synergy compute modules to benefit from the Silicon Root of Trust.

Answer: C

Explanation:

The correct answer is C. The customer is using older Gen9 Synergy compute modules, and the required improvement is hardware-rooted platform security. Silicon Root of Trust is an HPE firmware security capability anchored in server hardware and iLO, designed to validate firmware before boot and protect the platform from compromised firmware. HPE states that Gen10 servers introduced Silicon Root of Trust, and Gen11 systems continue that trusted-security model with enhanced iLO capabilities. Option A is incorrect because a firmware update cannot retrofit Silicon Root of Trust into Gen9 hardware that lacks the required silicon foundation. Option B misrepresents HPE OneView Global Dashboard; it provides aggregated management visibility, not centralized distribution of encryption keys and CA- signed certificates to all nodes. Option D can improve administrative integration and role control, but it does not address the deeper platform-trust gap created by the older compute generation. Reference /topics: HPE security architecture, Silicon Root of Trust, iLO security, Synergy Gen9-to-Gen11 modernization, hybrid-infrastructure protection.

NEW QUESTION # 24

Your customer's environment includes HPE Private Cloud Business Edition with deployed HPE SimpliVity 380 Gen11 nodes.

They have asked you to upgrade the vSphere, OmniStack, and firmware components of the environment in a fully controlled operation.

Which tool should you use?

- A. HPE SimpliVity Upgrade Manager application
- **B. HPE GreenLake / DSCC / PCBE site upgrade**
- C. HPE OCA/HPC plugin and vCenter Update Manager
- D. HPE OVC/HPC plugin and vCenter Update Manager

Answer: B

Explanation:

The correct answer is A. In an HPE Private Cloud Business Edition environment, the proper operational model is to use the HPE GreenLake / Data Services Cloud Console workflow for system-level lifecycle activities rather than treating the environment as a standalone SimpliVity-only deployment. HPE documentation for Private Cloud Business Edition identifies Data Services Cloud Console as the interface used to set up, upgrade, and manage PCBE environments, and the "Updating system software" workflow is specifically tied to PCBE administration through DSCC. The customer's requirement is broader than a single OmniStack upgrade: it includes vSphere, OmniStack, and firmware in a controlled operation. That makes a PCBE site-upgrade workflow the best match. Option B is associated with traditional SimpliVity software and firmware upgrade processes, but it is not the most complete answer for a PCBE-managed environment. Options C and D mix plugin/update-manager concepts and do not represent the correct PCBE lifecycle mechanism. Reference/topics: PCBE lifecycle operations, DSCC, SimpliVity upgrade planning, HPE GreenLake operational management.

NEW QUESTION # 25

You are designing a solution for a customer that will support a virtualization workload based on HPE Synergy. Your customer has the following requirements:

- * Dual-socket HPE Synergy compute nodes running ESXi 8.x with maximum memory supported
- * Each node should have access to shared storage from HPE Alletra Storage MP B10000
- * All virtual machines should be protected against host failure
- * All virtual machines with vGPU must be protected with Fault Tolerance
- * All compute nodes should boot from disks located in the D3940 Storage Modules protected with RAID

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- * All frames should be managed as one logical enclosure to simplify management
 - * All compute nodes should support two network ports with the maximum Ethernet connectivity speed
- You are reviewing a proposal that you must verify. The proposal consists of:

- * 3 x HPE Synergy 12000 frames
- * 2 x HPE Synergy Composer2 modules
- * 4 x HPE Virtual Connect SE 100Gb F32 Modules for Synergy
- * 4 x HPE Synergy 50Gb Interconnect Link Modules
- * 3 x HPE Synergy D3940 Storage Modules, each with 20 SSD drives
- * 1152 core VMware vSphere Enterprise Plus subscriptions
- * 36 x HPE Synergy 480 Gen11 compute nodes

Each SY480 Gen11 is configured with:

- * A single Platinum CPU with 32 cores
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- * HPE Synergy 5830C 32Gb Fibre Channel Host Bus Adapter
- * HPE MR416i-o Gen11 12G SAS Mezzanine Controller

Which two statements are true regarding the proposal? (Select two.)

- **A. To access HPE Alletra MP B10000 arrays, FC upgrade licenses for HPE Virtual Connect SE 100Gb F32 Modules for Synergy must be purchased.**
- **B. Two HPE Virtual Connect SE 100Gb F32 Modules for Synergy can be removed from the proposal because all requirements are met without them.**
- C. HPE MR416i-o Smart RAID controller can be removed because there are no external SAS disk enclosures included in the proposal.
- D. vSphere Enterprise Plus subscriptions can be replaced with vSphere Standard subscriptions.

- E. 2 HPE Synergy 50Gb Interconnect Link Modules should be removed from the proposal, as the total number of interconnects required is six.

Answer: A,B

Explanation:

The correct answers are C and D. In a three-frame HPE Synergy design using the primary/satellite fabric model, a redundant pair of HPE Virtual Connect SE 100Gb F32 modules can provide the intelligent fabric function while Interconnect Link Modules extend connectivity to satellite frames.

Therefore, the proposal can be reduced by removing two unnecessary F32 modules if the remaining pair and link modules still satisfy the required redundant 25/50Gb connectivity. HPE describes the F32 architecture as consolidating data center network connections and scaling bandwidth across multiple Synergy frames using a primary/satellite design. Option D is also correct because Fibre Channel uplink functionality on the HPE Virtual Connect SE 100Gb F32 requires a separate Synergy 32Gb FC upgrade license.

HPE OneView documentation states that the Synergy 32Gb FC Upgrade license is required for this interconnect to use Fibre Channel uplinks. Option B is false because the D3940 boot design still needs the SAS/RAID path. Option E is false because Fault Tolerance and advanced availability requirements make Standard an unsafe downgrade. Reference/topics: Synergy fabric validation, F32 FC licensing, D3940 boot architecture, VMware licensing review.

NEW QUESTION # 26

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