

HP2-T29^{Q&As}

Delta - Building HP Server Solutions

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QUESTION 1

Which items should be updated to the latest firmware levels prior to adding a c7000 enclosure to HP OneView?(Select two.)

- A. Smart Array Controllers
- B. Virtual Connect Modules
- C. Onboard Administrators
- D. SAS Interconnect Switches
- E. Server System ROMs

Correct Answer: BC

Explanation: <http://thesysadminlogs.wordpress.com/>

Adding enclosure to OneView

Let's start with the requirement to add enclosure,

No VC domain!

Firmwares -

- HP Virtual Connect - 3.15 for adding, 4.10 for managing.
- HP BladeSystem Onboard Administrator - 3.0 for adding, 4.01 for managing.
- HP iLO 4 - 1.01 for adding, 1.30 for managing.
- HP iLO 3 - 1.20 for adding, 1.61 for managing.
- It's recommended to update OA, VC and servers to the latest SPP...
- Emulex Converged Network Adapters - 4.2.401.6 or later

OneView can automatic update the firmware for you, I advise to update manually before adding to OneView.

QUESTION 2

What is M.2?

- A. An industry standard computer bus interface that supports both Serial ATA(SATA) and PCI Express (PCIe) storage devices
- B. A specification for internally mounted computer expansion cards and associated connectors.
- C. 2 replaces mSATA standards
- D. A nonvolatile memory card format used in portable devices. M.2 replaces the MMC standard

E. And industry standard developed in the mid1990s that defines bus bus components used for mommuniacation between computers and electronic devices

Correct Answer: C

Explanation:

PDF, WORD, EXCEL, PPT, RAR
M.2 formerly known as the **Next Generation Form Factor (NGFF)**, is a specification for internally mounted computer expansion cards and associated connectors. It replaces the mSATA standard, which uses the PCI Express Mini Card physical layout. M.2's more flexible physical specification that allows different module widths and lengths, together with more advanced features, makes the M.2 more suitable for solid-state storage applications in general, especially when used in small devices like ultrabooks or tablets.^[1]

QUESTION 3

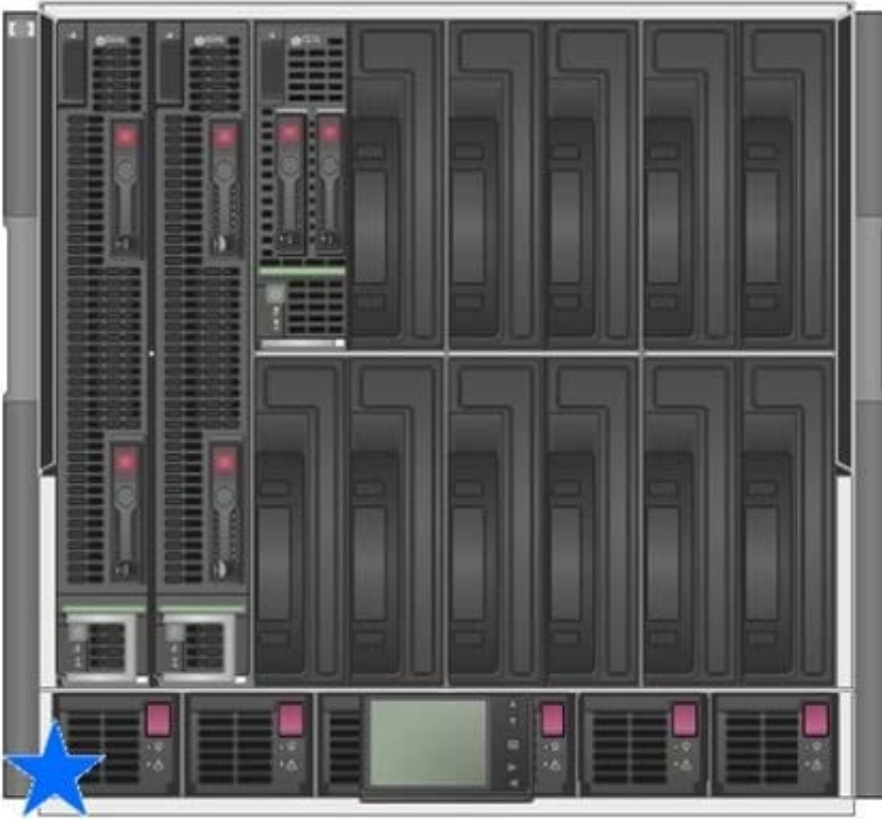
Which component can be used to determine the RAID configuration for direct attached disks?

- A. UEFI
- B. Smart Storage Administrator (SSA)
- C. Online Diagnostics Utility
- D. Centralized Management Console (CMC)

Correct Answer: C

QUESTION 4

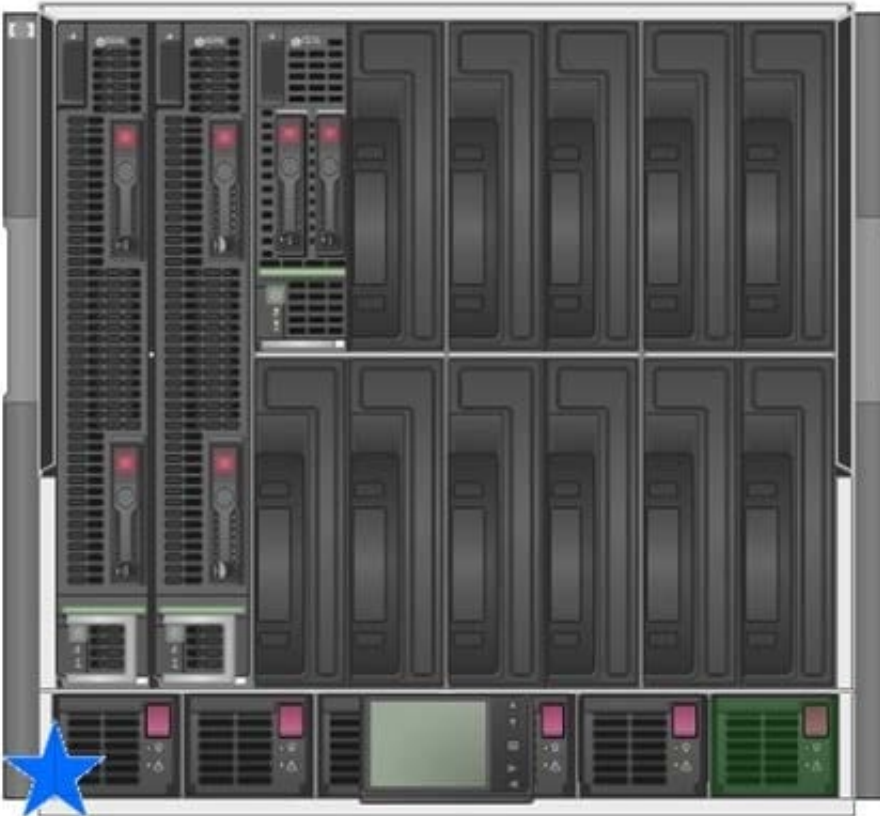
You need to add an additional full height blade to the enclosure shown below and not cause downtime to existing servers. Drag and drop the star to the bay in which you would add the blade.



Hot Area:



Correct Answer:



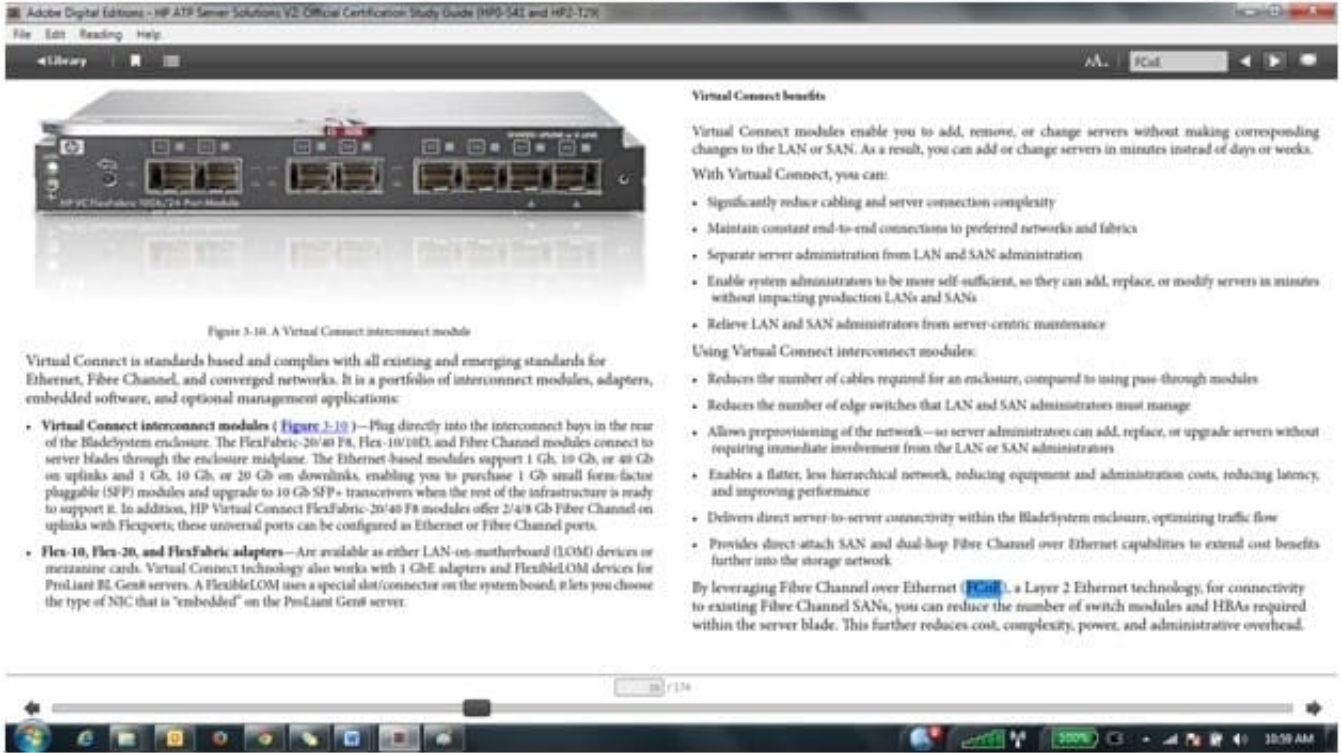
QUESTION 5

Which adapter can be configured to support FCoE?

- A. Flex-10
- B. Fibre Channel HBA
- C. FlexFabric
- D. VC-Fibre Channel

Correct Answer: C

Explanation: Explanation/reference:



The screenshot shows a PDF document titled "HP A19 Server Solutions V2: Official Certification Study Guide (HP0-542 and HP2-T29)". The document content includes:

Figure 3-10. A Virtual Connect interconnect module

Virtual Connect is standards based and complies with all existing and emerging standards for Ethernet, Fibre Channel, and converged networks. It is a portfolio of interconnect modules, adapters, embedded software, and optional management applications:

- **Virtual Connect interconnect modules** (Figure 3-10)—Plug directly into the interconnect bays in the rear of the BladeSystem enclosure. The FlexFabric-20/40 F8, Flex-10/10E1, and Fibre Channel modules connect to server blades through the enclosure midplane. The Ethernet-based modules support 1 Gb, 10 Gb, or 40 Gb on uplinks and 1 Gb, 10 Gb, or 20 Gb on downlinks, enabling you to purchase 1 Gb small form-factor pluggable (SFP) modules and upgrade to 10 Gb SFP+ transceivers when the rest of the infrastructure is ready to support it. In addition, HP Virtual Connect FlexFabric-20/40 F8 modules offer 2/4/8 Gb Fibre Channel on uplinks with Flexports; these universal ports can be configured as Ethernet or Fibre Channel ports.
- **Flex-10, Flex-20, and FlexFabric adapters**—Are available as either LAN-on-motherboard (LOM) devices or mezzanine cards. Virtual Connect technology also works with 1 GbE adapters and FlexibleLOM devices for ProLiant BL Gen8 servers. A FlexibleLOM uses a special slot/connector on the system board; it lets you choose the type of NIC that is “embedded” on the ProLiant Gen8 server.

Virtual Connect benefits

Virtual Connect modules enable you to add, remove, or change servers without making corresponding changes to the LAN or SAN. As a result, you can add or change servers in minutes instead of days or weeks. With Virtual Connect, you can:

- Significantly reduce cabling and server connection complexity
- Maintain constant end-to-end connections to preferred networks and fabrics
- Separate server administration from LAN and SAN administration
- Enable system administrators to be more self-sufficient, so they can add, replace, or modify servers in minutes without impacting production LANs and SANs
- Relieve LAN and SAN administrators from server-centric maintenance

Using Virtual Connect interconnect modules:

- Reduces the number of cables required for an enclosure, compared to using pass-through modules
- Reduces the number of edge switches that LAN and SAN administrators must manage
- Allows preprovisioning of the network—so server administrators can add, replace, or upgrade servers without requiring immediate involvement from the LAN or SAN administrators
- Enables a flatter, less hierarchical network, reducing equipment and administration costs, reducing latency, and improving performance
- Delivers direct server-to-server connectivity within the BladeSystem enclosure, optimizing traffic flow
- Provides direct-attach SAN and dual-hop Fibre Channel over Ethernet capabilities to extend cost benefits further into the storage network.

By leveraging Fibre Channel over Ethernet (FCoE), a Layer 2 Ethernet technology, for connectivity to existing Fibre Channel SANs, you can reduce the number of switch modules and HBAs required within the server blade. This further reduces cost, complexity, power, and administrative overhead.

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