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Delta - Building HP Server Solutions

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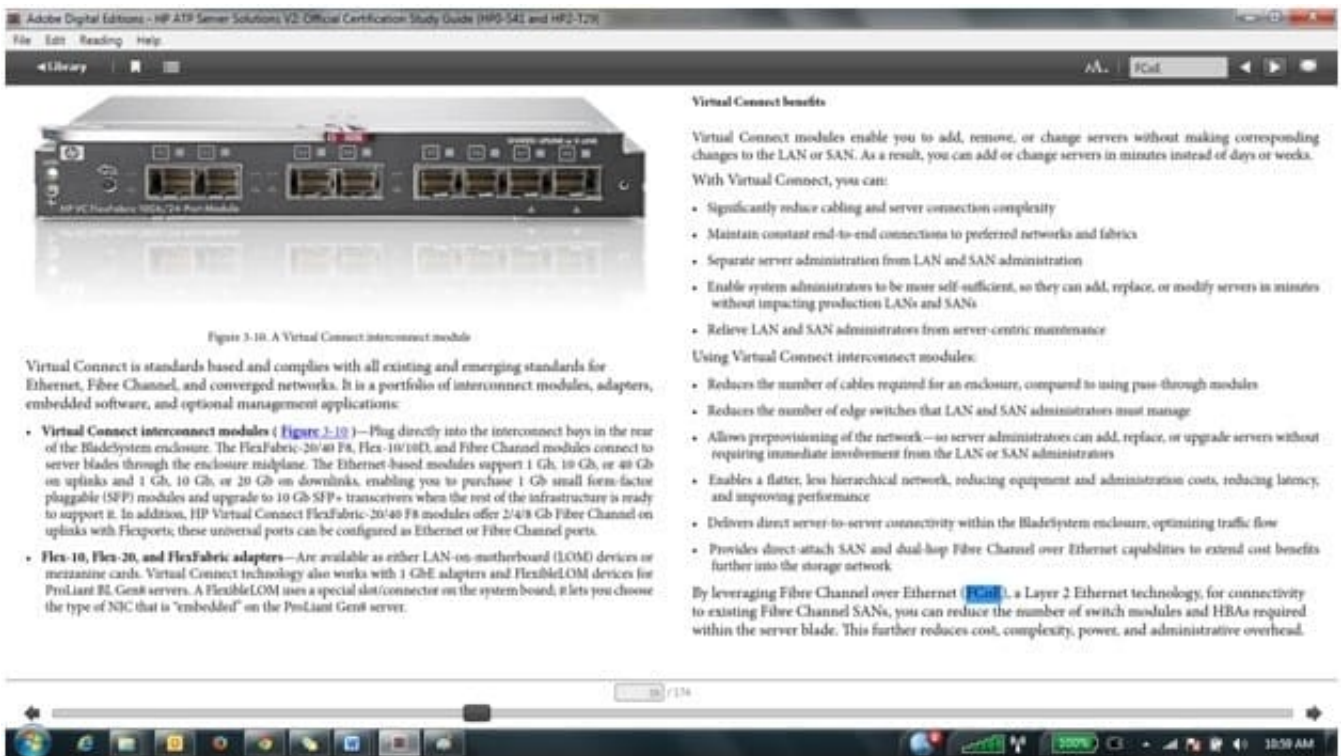
QUESTION 1

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 AT9 Server Solutions V2: Official Certification Study Guide (HP0-542 and HP0-129)". It features a photograph of a Virtual Connect interconnect module (Figure 3-10) and a list of its benefits. The text describes how Virtual Connect modules enable server changes in minutes and lists several advantages such as reducing cabling complexity and maintaining constant connections to networks.

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.

QUESTION 2

You need to verify the System ROM version installed on a number of different HP server models. Select the tool you should use for each server model. Tool choices may be selected more than once.

BL465 G7

DL160 Gen9

ML10 Gen9

DL580 Gen8

Hot Area:

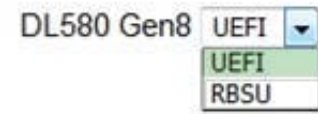
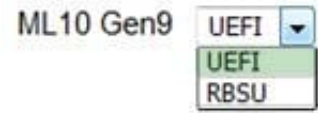
BL465 G7

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ML10 Gen9

DL580 Gen8

Correct Answer:



QUESTION 3

How can you access smart storage administrator on an HP ProLiant gen9 server?

- A. By booting the server from smart CD
- B. Through the HP OneView Dashboard
- C. Through a special applet in the iLO4 Card
- D. Through HP intelligent provisioning

Correct Answer: D

- **Accessing ACU in the online environment**—This method requires an administrator to download the ACU executables and install them. You can run ACU online after launching the host operating system.



Note

The HP **Smart Storage Administrator (SSA)** configuration utility replaced the ACU starting with Intelligent Provisioning 1.50.

QUESTION 4

Automatic system recovery is activated and configured through which system management tool?

- A. SNMPv3
- B. intelligent provisioning

- C. RESTful API
- D. server BIOS

Correct Answer: D

Reference:

http://h20564.www2.hp.com/hpsc/doc/public/display?docId=emr_na-c03654081andDocLang=enanddocLocale=en_USandjumpid=reg_r1002_usen_c-001_title_r0002

QUESTION 5

On which API is HP OneView's open development program built?

- A. JAVA
- B. UEFI
- C. RESTful
- D. Net

Correct Answer: C

Explanation:

REST API and OneView

OneView features an open development platform designed to adapt rapidly to business needs. This programmable platform, built on the REST API, allows enterprises to scale beyond data center walls to the cloud.

After you set up the OneView appliance, you can configure the software-defined templates automatically. For example, you do not have to set up clustering on your own, establish the heartbeat network, install the management server operating system, install the application, or configure separate services.

QUESTION 6

Which compute workloads are most suitable for scale-out computing solutions?(Select two.)

- A. unified communication applications
- B. personal productivity applications
- C. geophysical exploration applications
- D. high frequency trading applications

E. data center management applications

Correct Answer: CD

- **Geophysical and meteorological sciences**
- Entertainment and media production
- Visualization and rendering
- Finance

Extending HPC access

HP is making HPC resources available as part of a service hybrid cloud solution (with the Apollo 6000 system). Based on HP OpenStack, it provides an open and scalable HPC cluster infrastructure.

HP has also partnered with Intel, as well as institutions such as George Mason University and the National Center for Manufacturing Sciences, to make HPC resources available in HPC innovation hubs. These hubs give small- and medium-sized manufacturers access to supercomputing resources, hardware, software, and expertise, so they can do the modeling and simulation needed to bring new products to market faster.

Service providers

HPC customers use IT differently from corporate IT organizations. An HPC customer's expenditure on IT often approaches 90% of the total cost of the business—10 times that of a corporate IT organization. And the IT growth rates for a service provider can be many times the IT growth rate of a corporation. For service providers, IT is the business.

Within HPC, HP customers are continually looking for better performance to design better products, get to market faster, and achieve faster trading where microseconds translate to millions of dollars.

QUESTION 7

Which interface are implemented in HP OneView to allow simple integration into an existing Enterprise Management environment?(Select two)

- A. NET framework
- B. SOAP API
- C. Scripting Change MessageBus
- D. RESTful API

Correct Answer: CD

Explanation: Explanation/reference:

OneView is designed with an open API and an SCMB to enable easy **integration** into the full capabilities of the management architecture. **The SCMB is an interface that allows custom scripts/integrations to be notified of changes to managed resources (both logical and physical resources) via asynchronous messaging.** For example, integration scripts could be notified whenever new server hardware has been added to the managed environment or when the health status of physical resources has changed—without having to continuously poll for status via the **REST APIs**. All communication between external data consumers and internal components is conducted through the **RESTful interface**.

QUESTION 8

What does Secure Boot configuration support?

- A. Verifying boot media up to and including the boot manager
- B. Signing and verifying UEFI executable files up to and including the boot manager only
- C. Signing and verifying both legacy BIOS and UEFI executable files up to and including the boot manager
- D. Signing and verifying legacy BIOS executable files up to and including the boot manager only

Correct Answer: B

Explanation:

A Secure Boot configuration supports signing and verification for UEFI executable files, up to and including the boot manager. Together with verification performed by the operating system, Secure Boot helps protect the operating system from malware by performing a verification of each component, beginning with the platform reboot. Secure Boot prevents modification of the verification process, the keys, or any other variables by untrusted code or entities.

QUESTION 9

Active Health System

Monitors and records changes in the server hardware and system configuration
Monitors hardware, generates alerts, and runs on the iLO chipset
Provides out-of-the box single-server deployment and configuration capability
Provides secure export of logs to speed up troubleshooting

Intelligent Provisioning

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Hot Area:

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Correct Answer:

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QUESTION 10

An organization needs you to change the RAID level on its servers from RAID 0 to RAID 5 for security reasons. Which tool should you use to complete this task in online mode?

- A. Array Diagnostic Utility
- B. Flexible Array Storage Tool
- C. Smart Storage Administrator
- D. Option ROM Configuration for Arrays

Correct Answer: D

Explanation:

http://h20564.www2.hp.com/hpsc/doc/public/display?docId=emr_na-c02110406&DocLang=en&docLocale=en_US&jumpid=reg_r1002_usen_c-001_title_r0001

During this autoconfiguration process, ORCA uses all of the physical drives on the controller to set up the first logical drive. The RAID level used for the logical drive depends on the number of physical drives (one drive = RAID 0; two drives = RAID 1+0; three to six drives = RAID 5). If the drives have different capacities, ORCA locates the smallest drive and uses the capacity of that drive to determine how much space to use on each of the other drives.

- If the boot drive has been formatted or if there are more than six drives connected to the controller, you are prompted to run ORCA manually.

For more information about the autoconfiguration process, see the *HP ROM-Based Setup Utility User Guide* on the documentation CD provided with the server.

ORCA is available in a menu-driven interface and as a command-line interface (CLI) (not supported by ProLiant 100-series servers). These formats provide a quick and easy method for basic logical drive configuration. They have limited support for standard configuration tasks. However, these few tasks are adequate if your configuration needs are simple. For example, stripe size is predetermined by the RAID level you choose, and the size of the logical drive is determined automatically by the size of the physical drives you select.

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