

Exam : HP HP2-061

**Title : HP ProLiant Server
Maintenance**

Version : Demo

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1. What are special requirements for Online Spare Memory? Select TWO.

- A. The second populated bank is used as the spare memory bank.
- B. Online spare memory must be configured in the ROM-Based Setup Utility (RBSU).
- C. The DIMMs in the spare bank must be the same size or larger than those in the other banks.
- D. When online spare memory is present, the spare memory bank is counted during the power-on self-test (POST) and is added to the system memory count reported to the operating system.

Answer: BC

Explanation:

Configuring online spare memory

Before you configure an online spare DIMM, HP recommends that you perform the following steps:

1. Test the new memory.
 - a. From the Advanced Options screen in the RBSU, disable POST speedup.
 - b. From the Advanced Memory Protection screen, disable Online Spare with ECC support.
 - c. Restart the system to begin testing the memory. This may take a few minutes, depending on how much memory is installed in the system.
2. Perform these steps after the memory has been tested.
 - a. Enable POST speedup for faster system starts.
 - b. Power down the system.
 - c. Verify that bank C is populated with memory no smaller than either bank A or B.
3. Configure the online spare.
 - a. Power on the server. Online spare memory is disabled by default; therefore, all the memory is initially counted and configured as available primary memory.
 - b. At the prompt, press F9 to enter RBSU.
 - c. From the Advanced Memory Protection screen, enable Online Spare with ECC support. Press ESC twice to return to the main RBSU menu.
 - d. Press F10 to exit RBSU and restart your server. When your server restarts, it will enable online spare memory and display the following message: "xxxxMB System Memory and yyyyMB memory reserved for Online Spare".

2. Which processor currently uses 64-bit x86-based architecture?

- A. Itanium
- B. Pentium IV
- C. AMD Opteron
- D. Pentium III Xeon

Answer: A

3. What is the minimum number of drives needed in RAID ADG?

- A. 2
- B. 3
- C. 4
- D. 8

Answer: A

4. What is the maximum number of P-class Blade Server Enclosures supported by one Scalable Bus Bar?

- A. 2
- B. 3
- C. 5
- D. 6

Answer: D

5. What are features of HP Systems Insight Manager? Select FOUR.

- A. device discovery
- B. extended integration
- C. fundamental integration
- D. easy and rapid installation
- E. secure remote management
- F. web browser and command-line interface

Answer: ABDE

6. What are properties of Advanced Data Guarding? Select TWO.

- A. It is recommended for up to 14 drives.
- B. It protects against a ROM failure or corruption.
- C. It protects against two simultaneous drive failures.
- D. It allocates two sets of parity data across the drives and allows simultaneous write operations.
- E. It allocates half of the drive to data and the other half to mirrored data, providing two copies of every file.

Answer: CD

Explanation:

Only select Smart Array controllers offer HP Advanced Data Guarding (RAID ADG), which offers:

- ? Higher fault tolerance than RAID 5
- ? Lower implementation costs than RAID 1+0
- ? Greater usable capacity per U than RAID 1

When using the HP patented RAID ADG technology, you can safely deploy large-capacity hard drives and create large storage volumes. RAID ADG is a proprietary version of RAID 6 and it is thus frequently called RAID 6. RAID ADG protects data from multiple drive failures and is able to withstand two simultaneous hard drive failures without data loss or downtime. RAID ADG uses two sets of parity striped across the disks. This method provides protection for an array with up to 56 drives and requires only two drives to store the parity information. To implement RAID ADG, a minimum of four drives is required. Although RAID ADG provides the dual advantages of increased fault tolerance and high capacity, it does so at the cost of performance, which is less than that of other RAID levels. The RAID ADG performance equals RAID 5 performance when reading data, but it is slower when writing data because of the extra parity data.

7. Which statements are true regarding PCI-X technology? Select TWO.

- A. In a PCI-X system the speed is determined by the fastest device.
- B. Conventional PCI adapters can operate in PCI-X systems and vice versa.
- C. A PCI-X adapter placed on a conventional PCI bus is not limited to conventional PCI speeds.
- D. PCI-X is forward and backward compatible with PCI 2.2 systems at the system, device driver and adapter levels.

Answer: AB

8. Which Remote Management offering allows graphic and text virtual console?

- A. iLO 2
- B. RILOE II
- C. iLO Advanced
- D. Lights-Out 100

Answer: B

9. What are the two essential building blocks of modular PDUs? Select TWO.

- A. control unit
- B. extension bars
- C. SNMP/serial card
- D. extended runtime module
- E. 1U/0U mounting brackets

Answer: CE

10. What advantage does Direct Attached Storage (DAS) have over a Storage Area Network (SAN)?

- A. easy deployment
- B. sufficient use of resources
- C. server based management model
- D. easily shared resources across multiple servers

Answer: A

Explanation:

DAS offers the easiest way to deploy incremental amounts of storage as needed without extensive upfront planning.

Because RAID inside the server is becoming less expensive, DAS is growing in popularity. Currently, more than 70% of all deployed storage is DAS. Smart Array controllers in a DAS configuration provide the ideal platform for high-performance applications such as databases, email and messaging, and other applications that benefit from high I/O performance.

Advantages of the DAS storage solution include:

? High performance

- ? Easy deployment
- ? Relatively inexpensive to acquire, maintain, and expand
- ? Fast server-to-storage data transfer
- ? Easy migration to SAN solutions Although many customers currently have separate storage systems with storage management software products that are connected to individual servers, this strategy produces islands of data dispersed throughout a distributed IT environment.

Disadvantages of the DAS storage solution include:

- ? Inefficient use of resources
- ? Unnecessarily duplicated equipment
- ? Server-based management model

IT infrastructures need speed and flexibility to adapt to dynamic markets.

The HP approach to delivering DAS storage enables a business to become more competitive based on these features:

- ? Physical resources - Serve as highly available data repositories
- ? Virtualization capabilities - Simplify storage management and extend the span of management of physical storage resources
- ? Resource-level storage management capabilities - Serve to configure, provision, control, and maintain storage

11. What are benefits of Serial ATA (SATA) drives? Select TWO.

- A. highest reliability
- B. highest capacity
- C. lowest price per GB
- D. highest performance
- E. medium to heavy read/write operations

Answer: CD

12. DRAG DROP

Match the term with the definition.

Options, select from these

Uninterruptible power supplies	Pre-failure warranty
HP availability agents	Integrated Lights Out

Definitions

Notifies customers, using management software, of possible failures of critical components
Provides remote console and remote power on/oof
Automates responses
Provides power during a momentary loss of utility power or gracefully shuts down the server if there is an extended loss of utility power

Options, place here

Place here
Place here
Place here
Place here

Answer:

Definitions

Notifies customers, using management software, of possible failures of critical components
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Options, place here

Pre-failure warranty
Integrated Lights Out
HP availability agents
Uninterruptible power supplies

Explanation:

part 1

Fault prevention technologies	Description
Advanced memory protection (online spare, mirrored, RAID, and ECC memory)	Protects against memory errors that corrupt data and cause server crashes for high-availability applications
Dynamic sector repair	Provides hardware diagnostics and automatically remaps bad sectors for HP drive arrays
Power down manager	Gives the administrator an advanced level of flexibility in configuring behavior of I2O power

	switches
HP Systems Insight Manager predictive failure analysis	Provides web-based enterprise management
HP availability agents	Automates responses to common events
Uninterruptible power supplies	Provide power during a momentary loss of utility power or gracefully shut down the server if there is an extended loss of utility power
Temperature detect and shutdown	Detects when the temperature of the system exceeds the caution level and invokes shutdown
Pre-Failure Warranty	Notifies customers, using management software, of possible failures of critical components
Security	Includes Remote Insight Lights-Out Edition II (RILOE II) and Integrated Lights-Out (iLO) technologies

part 2

HP offers a variety of warranty programs, including:

1. Refurbished products are refurbished by HP and sold through a reseller. They are identified by an R or a Q in the first character of the serial number and are covered by a one-year parts and carry-in limited warranty. HP refurbished products sold through HP Works are covered by a one-year limited warranty.
2. Spare parts are covered by a 90-day warranty or the warranty of the computer into which they are installed, whichever is longer. Most option parts carry a one-year warranty. After it has been installed in an HP machine, an option part assumes the remainder of the warranty of that machine or the remainder of the option warranty, whichever is longer. (Some options have three-year warranties.)
3. HP servers are generally covered by a 3-3-3 warranty in the country where the machine was purchased. This coverage includes three years of labor (on-site or carry-in) and three years of parts coverage with a two business day response time. Prosignia server warranties may vary. The addition of third-party hardware

generally does not affect the existing HP warranty. ProLiant 300 series servers or higher and the BL line purchased on or after August 15, 2004 are covered by a standard 3-3-3 Next-Business-Day Limited Warranty for customers in North America. This coverage includes three years of labor (on-site or carry-in) and three years of parts coverage with next business day service on-site. ProLiant 100 series servers offer limited warranties.

4. Global Warranty covers all commercial products purchased on or after August 15, 2004, whether purchased from HP or from an authorized HP reseller. Product warranty terms at the time of the sale will be honored in any of the 150 countries where HP has a service presence.

5. Pre-Failure Warranty is the portion of the HP warranty that covers repair or replacement of defective parts (including processors, memory, and hard drives) identified by HP Insight Manager software as prefailure. A prefailure state can also be identified from the Integrated Management Display view.

part 3

Lights-Out technology HP recognizes the need for remote systems management and offers the HP Lights-Out technology to manage ProLiant servers from a remote system.

This option provides virtual on-site management capabilities. Rather than calling the remote site to have another person issue keyboard commands and listening to them describe the response from the server, you can view server operations and manage the server directly.

Integrated Light-Out technology operates independently of the server operating system. This capability provides easy access to the iLO or RILOE features, providing administrators with full control over the display, keyboard, and mouse of the remote host server, regardless of the state of the host server or operating system.

HP Lights-Out technology includes the following products:

? HP Remote Insight Lights-Out Edition II (RILOE II)

? HP Integrated Lights-Out (iLO)

? HP ProLiant Lights-Out 100 The three HP Lights-Out products are browser accessible by means of Microsoft Internet Explorer 5.5 (SP2) or later, Netscape Navigator 6. 2 or later, and Mozilla 1.0 or later. This accessibility enables you to perform remote management tasks using a familiar user interface.

All three of these products enable remote control of the power button of a host server.

part 4

Introduction Your customer wants to see what HP has to offer for systems management.

You describe to him the simplicity and efficiency of the HP Insight Management Agents.

You also explain that he can get consolidated information about each server from one location using the HP SIM management software. HP SIM automatically discovers, identifies, and manages HP ProLiant servers. In addition, you can set thresholds, monitor performance, and receive alerts from any console.

Your customer requests a demonstration of the Insight Management Agents and HP SIM at his business location.

The customer is also interested in managing his servers from a distance. You explain to him the advantages of the HP integrated Lights-Out and Remote Insight Lights-Out Edition II boards.

13. Which statement describes the ProLiant BL series servers?

- A. ultra-dense and power-efficient
- B. offers maximum internal expansion
- C. self-contained, ready-to-go clustering solution
- D. density optimized for rack-mounting environments

Answer: A

14. Which item is required to troubleshoot a single p-Class blade server that has been removed from its enclosure?

- A. network interconnect adapter
- B. diagnostic adapter and station
- C. server blade management module
- D. Integrated Lights-Out remote console

Answer: B

15. Which HP reference tool is available for each ProLiant product and includes information on features, standard parts and options, models, service offerings, storage capacity, component layout (high level), memory upgrade information, and specifications?

- A. Quickspecs
- B. Illustrated Parts Catalog
- C. Setup and Installation Guide

D. ProLiant Servers Troubleshooting Guide

Answer: A

16. Which HP ProLiant Server feature communicates regularly with the HP Server Health Driver to provide automatic restarting after a processor failure?

- A. Embedded HP Diagnostic Utility
- B. RBSU - Rom Based Server Utility
- C. ASR - Automatic Server Recovery
- D. HP Systems Management Homepage

Answer: C

17. Our customer reports that the HP uninterruptible power supply (UPS) repeatedly makes a clicking sound. What is happening?

- A. The clicking sound is a warning that the batteries are about to fail.
- B. The batteries in the UPS have failed and are disconnecting themselves.
- C. The UPS is regulating the power through the 'buck/double boost' feature.
- D. The batteries have entered the 'intelligent charging' state and the sound will stop once the batteries have rapid charged to 90%.

Answer: C

18. A customer would like to move four 73GB universal SCSI drives from their DL380 to their MSA1500. Which drive shelf must be used to support the four 73GB drives on the MSA1500?

- A. MSA20
- B. MSA30
- C. MSA50
- D. MSA500

Answer: A

Explanation:

The MSA20 is a SATA 1.5GB disk drive storage enclosure with Ultra320 SCSI host connectivity.

The MSA20 delivers low-cost and high capacity, for minimum I/O workloads such as reference data,

archival, and disk-to-disk backup. It provides compatibility with sixth-generation Smart Array controllers. Its 2U rack height design allows up to 21 enclosures in one 42U rack for a single rack storage capacity of up to 63 TB of disk storage (JBOD configuration), or up to 8 enclosures in an MSA1500 configuration for 24 TB storage capacity in an entry-level SAN.

PART 2 StorageWorks MSA30 - NO

The MSA 30 is a flexible, universal storage enclosure that uses a common storage building block for the current and future data center. This external JBOD storage option delivers high availability, performance, serviceability, and large storage capacity for business-critical data. The dual bus enables customers to attach up to two servers to a single MSA30. It is used as an expansion option for the MSA1000 and MSA1500. The MSA30 supports up to 14 Ultra2, Ultra3 or Ultra320 Universal Hard Disk Drives, and provides storage capacity of up to 4 TB per enclosure (using 300 GB 1-inch disk drives). It is available in single and dual bus models.

PART 3 StorageWorks MSA50 - NO

The MSA50 is a 1U SAS disk drive storage enclosure supporting Small Form Factor (SFF) SAS or SATA drives. This enclosure delivers industry-leading data performance, availability, storage density, and upgradeability to meet customer's growing storage needs

PART 4 StorageWorks MSA500 - NO

The MSA500 is an entry-level external storage enclosure designed for single and multiple path two-node clustering and DAS. It offers superior data protection and increased uptime with redundant controllers, power supplies, and fans. Because it is SCSI based, there are no Fibre Channel infrastructure requirements such as hubs, switches, and cables, making it more cost-effective than SAN solutions. The MSA500 features DAS to SAN (DtS) technology, allowing seamless conversion from the SCSI protocol to a Fibre Channel-based MSA1000, for additional scalability. Although it is commonly configured with two servers in a high-availability cluster configuration, up to four servers can attach to each MSA500. Combining the array controller shelf and the drive shelf, the MSA500 G2 holds up to 14 HP Universal Disk Drives in a single 4U rack-mount cabinet to provide over 4.2 TB of storage.

PART 5 StorageWorks MSA 1000 - NO

The MSA1000 is shown here with two MSA30 expansion shelves. The MSA1000 is a 2 Gb Fibre Channel storage system for the entry-level to midrange storage area network (SAN). It is a low-cost, scalable, high performance storage consolidation system with investment protection that reduces the complexity and risk

of SAN deployments. Most data, disks, and enclosures currently directly attached to Smart Array controllers (DAS) can be easily moved to a shared storage environment (SAN). Note: The HP Direct Attach Storage (DAS) to SAN (DtS) architecture provides a quick and easy way to migrate stored data protected by Smart Array controllers to a MSA1000 storage system. DtS provides a means of removing the drives from the older systems and insert them into the MSA1000. Existing data, RAID sets, and configuration information remain intact allowing data migration to be completed in minutes, not hours. With the addition of two more drive enclosures, it can control up to 42 drives allowing capacity of twelve terabytes. All configuration, management and partitioning and licensing software come standard with no extra charges. The optional embedded 8-port SAN switch or 3-port hub provide cost effective and space saving methods of creating a SAN environment. It is qualified the external B-series, M-series and C-series FC switches.

PART 6 StorageWorks MSA 1500 - YES

The MSA1500 is a Fibre Channel SAN attached, 2U controller shelf that connects to HP StorageWorks SATA and SCSI disk enclosures. It provides a flexible low-cost, high-capacity storage solution for customers using HP SATA enclosures to store non-mission-critical data. The MSA 1500 supports Advanced Data Guarding (ADG). The MSA 1500 supports the following: Up to eight SATA enclosures for 24TB of storage or four SCSI enclosures for 16.8TB of storage for SCSI reliability HP StorageWorks MSA20 or MSA30 enclosures for capacity expansion, depending on whether the need is for SATA or SCSI

19. You install a second processor in your DL380G4 but then the system does not power on self test (POST) as expected. What is the first thing you should do?

- A. Boot to the RBSU and run the server diagnostics to determine the issue.
- B. Remove the second processor and upgrade the system ROM to the latest version.
- C. Create a ROM diskette from ROM Based Setup Utility (RBSU) and flash the system ROM.
- D. Put the new processor into the primary socket and flash the system ROM to the latest version.

Answer: D

Explanation:

DL380 components and service Four generations of this server are currently in use: DL380, DL380 G2, DL380 G3, and DL380 G4. DL380 G4 components DL380 G4 components Processors and ROM

? Processor slot 1 must be populated at all times. If it is necessary to remove the processor from slot 1, install the second processor in slot 1.

? Both processors must be the same speed. Pentium III processors can no longer be down-clocked or up-clocked. Intel now locks in the speed.

? The system ROM maintains a primary and redundant image of the BIOS. If one image is corrupt, POST error 105 "Current System ROM is corrupt-now booting redundant system ROM" will appear. If both ROM images are corrupt, enable disaster recovery mode by setting SW2 position 1,4, 5, and 6 to the ON position and rebooting. Processor

? DL380 G4 processors are not backward-compatible for G3 models

If the locking lever is not secured over the retaining tab, the processor bracket will not close.

? The DL380 G4 hot-spare boot functionality works differently than the DL380 G3. If the primary processor does not start up, the server will try three times to start the primary processor. If the primary processor does not start after three tries, the server will light the Processor LED and continue trying to boot.

20. How do you migrate a four disk RAID 0+1 volume on a SmartArray controller to RAID 5?

- A. Use the Windows Disk Management applet.
- B. In Windows, run the Array Configuration Utility (ACU).
- C. Boot the system and press F9 to access the ROM Based Setup Utility (RBSU).
- D. Boot the system and press F8 to access the Online ROM Configuration for Arrays (ORCA) utility.

Answer: B

Explanation:

The ACU enables you to manage all Smart Array controllers from one central location and perform these tasks:

1. Online array expansions
 2. Online logical drive capacity extensions
 3. Online RAID level migrations
 4. Online stripe size migrations
 5. Configurations using the configuration wizards
 6. Drive and expansion priority changes
 7. Stripe size selection
 8. Controller performance tuning through variable cache read/write ratios and stripe sizes
 9. Storage identification through blinking drive tray LEDs
- The ACU also enables you to configure:

1. Online spares (hot spares)
2. The array accelerator
3. RAID 0, 1, 1+0, 5, and ADG
4. Separate fault tolerance on a logical drive basis

Not D:

Because ORCA is designed for users who require basic configuration, it does not support:

1. Drive expansion
2. RAID level migration
3. Setting the stripe size or controller settings
4. Languages other than English

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