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HP

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Foundations of HP Storage Solutions

A

QUESTION 1

Which HP StoreVirtual feature is unique to the P4900 G2 Storage System?

- A. support for hardware RAID 10
- B. support for Network RAID 5 only
- C. 8Gb FC node connectivity
- D. SmartSSD Wear Gauge in CMC

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

Scenario:

The consultant is reviewing a customer's storage and backup infrastructure design for a possible upgrade new solution design. The existing environment consists of several HP DL servers connected to HP 24 SAN Switches. An HP Enterprise Virtual Array 4400 is used as storage for their virtualized servers. Some HP D2700 Storage Systems are direct connected to their Windows servers. An HP StoreOnce D2D 4106fc Backup System is used as primary backup target. Once a week backup data copied to an HP MSL4048 as secondary backup target using HP Data Protector (DP) 6.1,

During the planning phase the consultant has to propose whether the existing solution can be upgraded or a new solution design is required.

Refer to the scenario:

Your customer is concerned about downtime the data migration from their array to the HP 3PARStoreServ 7000 Storage System you proposed. Which statement should you include in your proposal to best address this concern?

- A. The HP Enterprise Virtual Array 4400 can be added as external storage to migrate the data.
- B. An HP 3PAR Remote Copy relationship can be established to prevent downtime during migration.
- C. An HP Continuous Access relationship can be established to prevent downtime during migration.
- D. The Online Import functionality of an HP 3PAR StoreServ Storage System can be used to migrate the data.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

When designing a solution, what defines the maximum tolerable amount of data loss from an IT service due to a major incident?

- A. SLO
- B. RPO
- C. SLA
- D. RTO

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

What is the minimum information required to create a virtual volume on an HP 3PAR StoreServ 7000 array? (Select three.)

- A. Name
- B. Resilience level
- C. Physical disk type
- D. Size
- E. CPG
- F. RAID Level

Correct Answer: ADE

Section: (none)

Explanation

Explanation/Reference:

Explanation: Read 3PAR InForm Management Console 4.1.0 User's Guide pg 275 Create Virtual Volume Size, Name and CPG are real parameters

QUESTION 5

Which advantage do 15k RPM drives provide over 10k drives?

- A. higher seek time
- B. higher duty cycle

- C. improved MTBF
- D. decreased rotational latency

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

An alternative energy company was founded in 2003 by a joint venture of two regional energy companies in the United States. They focused on engineering solutions for the solar energy sector. Since 2010, they have offered operational services, including billing and financial services, for solar power plants. The acquisition of companies related to this sector is a future strategy to raise their market share. Moreover, in 2012 the company established a branch office in Europe to take part in the extensive European market growth.

A new storage solution is being designed for the company's central organization. Which questions should the IT manager be asked to verify that the proposed solution will cover the business needs when acquiring new companies? (Select two.)

- A. Which requirements must be met today, in three months, and in six months? B. How do you expect business to grow in the near future? C. How does the user define performance?
- B. Which criteria must be met for fault tolerance and recovery time? E. Is the intended use of the solution processor intensive?

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

Which configuration limits have been increased for HP 3PAR storeServ 7200 arrays with HP 3PAR OS3.1.3? (Select two.)

- A. Number of disk drives
- B. Remote copy over IP ports
- C. Fibre Channel host ports
- D. iSCSI/FCOE host ports
- E. Maximum supported initiators

Correct Answer: AE

Section: (none)

Explanation**Explanation/Reference:**

Reference:

<http://h20195.www2.hp.com/v2/GetPDF.aspx%2F4AA4-7604ENW.pdf>

QUESTION 8

When planning an HP StoreOnce VSA solution, which component can significantly impact backup and restore performance?

- A. Datastore layout
- B. Number and type of disk
- C. Supervisor type
- D. Replication link bandwidth

Correct Answer: D

Section: (none)

Explanation**Explanation/Reference:**

Reference:

<http://h20195.www2.hp.com/v2/getpdf.aspx/4AA5-5374ENW.pdf?ver=1.0>

QUESTION 9

You have recommended a new storage solution to your customer and have already created your design with the HP Storage Sizer. The next step is to provide them a budgetary quote.

What is the best way to create the quote?

- A. Send your design to HP and ask them to help.
- B. Cut and paste the data into an Excel spreadsheet.
- C. Push the Quote button in the HP Storage Sizer.
- D. Export the data to SBW and use the Quoter tool.

Correct Answer:

Section: (none)

Explanation**Explanation/Reference:**

QUESTION 10

Your customer has implemented a 4TB HP StoreOnce VSA and has a requirement to increase the capacity to 10TB. Which statement is true regarding the upgrade process?

- A. Adding more memory requires the HP StoreOnce VSA to be restarted.
- B. The configured hypervisor will need to be restarted.
- C. Capacity upgrades require the HP StoreOnce housekeeping to manually be restarted.
- D. Installing the additional capacity license requires the HP StoreOnce VSA to be restarted.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www8.hp.com/h20195/v2/getpdf.aspx/c04111413.pdf?ver=14>

QUESTION 11

Which HP tool provides contract and warranty management?

- A. HP WEBES
- B. HP Insight Remote Support
- C. HP OpenView
- D. HP System Management Homepage

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

Your customer is a medium-sized insurance company. They have decided to build a redundant vSphere 5.1 infrastructure cluster with HP BladeSystem. As their consultant, you propose redundant HP BladeSystem c7000 enclosures, Flex Fabric Interconnect modules, and four HP ProLiant BL660c Gen8 Servers, with two dual port Flex-Fabric LOMs in a vSphere ESX 5.1 HA cluster.

Which components provide direct-attached storage for the virtual servers? (Select three.)

- A. HP SmartArray P711m Controller
- B. HP MSA P2000 G3 Combo
- C. HP SmartArray P721m Controller
- D. HP D6000 Disk Enclosures
- E. HP 3 Gb/s SAS BL Switch
- F. HP 6 Gb/s SAS BL Switch

Correct Answer: CDF

Section: (none)

Explanation

Explanation/Reference:

Explanation: Up to six D6000 storage devices can be supported off a single BladeSystem enclosure for up to 1260 TB of capacity. End-to-end 6 Gb/s SAS connectivity enables a high performance storage solution using an HP Smart Array P721m controller, 6 Gb/s SAS BL switches, and the D6000. 6 Gb/s host connectivity enables higher performance, eases configuration/deployment and broadens supported features of an D6000 using HP Smart Array P721m controller and 6 Gb/s SAS BL switches.

QUESTION 13

A leading retail, corporate, and investment bank serves approximately 15 million customers in Central and Eastern Europe. The bank plans to build two redundant data centers in Europe. Their backup strategy is to implement an HP StoreOnce solution in Europe servicing 24 TB across the three remote offices. They have a native 10Gb Ethernet infrastructure and plan to implement HP StoreOnce Catalyst. As their backup presales consultant, you must prepare an evaluation to present the HP StoreOnce solution.

Which HP StoreOnce solution should you propose for the remote offices?

- A. One HP StoreOnce 4220 Backup for each remote office, as well as Replication and HP StoreOnce Catalyst licenses
- B. One HP StoreOnce 4220 Backup for each of the three remote offices, as well as HP StoreOnce Catalyst licenses
- C. One HP StoreOnce 4210 Fibre Channel Backup for each remote office, as well as

Replication and HP StoreOnce Catalyst licenses

- D. One HP StoreOnce 4220 Backup for each remote office, as well as HP StoreOnce Catalyst licenses for source and target

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

Which software feature is integrated into both HP StoreOnce Backup Systems and HP Data Protector software?

- A. data encryption
- B. thin provisioning
- C. native MPIO
- D. deduplication API

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

A medium-sized warehouse company IT environment has grown over time. They have recently virtualized their servers using VMware technologies. They need a management system based on HP servers and storage devices to gain control of their ever-growing IT infrastructure. They do not want to introduce and learn a new interface.

Which HP solution do you recommend to the customer?

- A. Insight Server for VMware vCenter Server
- B. Insight Server for VMware vCenter
- C. Insight control for VMware vCenter Server
- D. Insight control for VMware Server

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

Which HP software will replace HP Systems Insight Manager, HP Insight Control, and HP Virtual Connect Manager?

- A. HP OpenView
- B. HP Intelligent Management Center
- C. HP One View
- D. HP ArcSight

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www8.hp.com/us/en/products/server-software/product-detail.html?oid=4152978>

QUESTION 17

Which features would lead you to position an HP 3PAR StoreServ 7200 as a replacement for an existing HP 8100 Enterprise Virtual Array? (Select two)

- A. Similar feature set
- B. Compatible replication protocol
- C. Faster disk spindle speeds
- D. Thin provisioning
- E. Seamless data migration

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

Which feature allows SAN switches to accept multiple WWPN registrations on a single port?

- A. DCB
- B. ISL Tracking
- C. SCM
- D. NPM

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

Which statement is true regarding the unique benefits of the HP StoreOnce Catalyst?

- A. HP StoreOnce Catalyst provides federated deduplication across all HP StoreOnce Backup systems with HP Data Protector 6.21.
- B. Clients can deduplicate data on application servers or backup servers before it is transferred to a centralized HP StoreOnce Backup system.
- C. Deduplication may occur on the media servers or backup servers before it is transferred to a centralized HP StoreOnce Backup system.
- D. There is no rehydration of data between any of the HP backup platforms.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

Which HP Storage solution provides automatically-optimized tiered storage and thin provisioning?

- A. HP MSA P2000
- B. HP EVA P6000
- C. HP StoreVirtual
- D. HP 3PAR StoreServ

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

A retail company is planning to create a web shop on their website to offer their products and services. They expect a large increase in sales and increased traffic to their website, and customer satisfaction is a priority. Additionally, the website has to respond quickly, providing detailed product information, pictures, and documentation. Their current environment consists of two HP BladeSystem c7000 Enclosures connected to a storage array over a small SAN. They must have a tape backup solution with support for at least three tape drives.

Which HP solution meets the customer requirements?

- A. HP StoreEver 1/8 G2
- B. HP StoreEver MSL 2024
- C. HP StoreEver ESL G3

D. HP StoreEver MSL 4048

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

You are a presales consultant for a medium-sized pharmaceutical company. The environment consists of an HP BladeSystem c3000 enclosure with a vSphere 5.1 infrastructure cluster and iSCSI as the main topology.

The new SLA requirements state that the infrastructure must be fully redundant. The customer advises you that firmware updates should be implemented online without experiencing any downtime.

When designing the environment, which components should you recommend to meet the customer requirements? (Select two.)

- A. additional Host Bus Adapter mezzanine cards
- B. HP Insight Control and SUM licenses
- C. redundant Onboard Administrator modules
- D. HP Virtual Connect Enterprise Manager
- E. redundant Virtual Connect Flex-10 modules

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

What is a new feature of NFS v4 1 in Windows Storage Server 2012?

- A. Inline deduplication
- B. Autonomic groups
- C. Network raid support
- D. Continuous availability

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:**

Reference:

<http://h20195.www2.hp.com/v2/getpdf.aspx/4AA5-4187ENW.pdf>

QUESTION 24

A medium-sized warehouse company has built their Windows-based IT environment over time. They have recently virtualized their servers using VMware technologies. They want to build a centralized storage solution but without a new storage network. Your solution is based on the HP StoreEasy product.

Which common features meet the customer requirements? (Select two)

- A. StoreEasy Management
- B. 16 Petabyte namespace
- C. SAN gateway facility
- D. node-based flexibility
- E. NFS 4.1 protocol support

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:**QUESTION 25**

Which solution allows HP Data Protector to manage low bandwidth data movement between backup hardware devices?

- A. HP StoreOnce Catalyst
- B. HP StoreOnce VTL emulation
- C. HP StoreOnce Enterprise Manager
- D. HP StoreOnce MAS targets

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA2-3654ENW.pdf>

QUESTION 26

Which HP ProLiant Gen8 feature accomplishes remote server deployment?

- A. Intelligent Management Center
- B. Insight Control Server Provisioning
- C. Intelligent Provisioning
- D. Server Automation

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

A medium sized manufacturing company decides to build a redundant vSphere 5.1 Infrastructure cluster with HP BladeSystem. As their consultant, you propose redundant HP BladeSystem c7000 Enclosures for their local and remote sites. The storage solution you propose is an HP Store Virtual 4000 with remote replication. To stay within the budget, you decide to use the HP StoreVirtual VSA at the remote site.

Which feature of the VSA must you consider for future growth?

- A. maximum 10 TB per VSA
- B. maximum 3 VSAs per site
- C. maximum one LAN adapter per VSA
- D. maximum one VSA per host

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

Your customer has a single HP BladeSystem c7000 Enclosure. What is the maximum number of D6000 Storage devices that can be attached to the enclosure?

- A. 8
- B. 2
- C. 1
- D. 6

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference:

http://h20628.www2.hp.com/km-ext/kmcsdirect/emr_na-c02775615-8.pdf

QUESTION 29

Which network port requires an Ethernet connection to use the HP Agentless Management feature on an HP storeVirtual 4330?

- A. Blade Onboard Administrator
- B. HP iLO management processor
- C. Onboard NIC1
- D. Integrity Management Processor

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www8.hp.com/us/en/products/server-software/product-detail.html?oid=4152978>

QUESTION 30

Which advantage does an HP 3PAR StoreServ Storage System provide in an HP Virtual Connect FlexFabric environment?

- A. The Fibre Channel host ports are NPIV enabled.
- B. The VCEM can be used to configure the hosts on the storage system.
- C. The HP 3PAR StoreServ Storage Systems are FCoE ready.
- D. The Fibre Channel host ports can be attached directly to the FlexFabric modules.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

Which resource can be used to identify the configuration of the primary backup system?

- A. HP Tape Assure
- B. HP D2D Storage Sizer
- C. HP Library and Tape Tools
- D. HP D2D Support Ticket

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

A leading retail, corporate, and investment bank serves approximately 15 million customers within Central and Eastern Europe. They have older P4000 storage systems and want to implement the latest HP Store Virtual 4000 model. Some of their volumes that support critical applications must be moved over to the new platform.

Which HP technology enables this action without stopping the applications?

- A. HP Peer Federation
- B. HP pMotion
- C. HP Remote Motion
- D. HP Peer Motion

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

What is the first step to achieving a successful data protection and retention strategy?

- A. Data classification
- B. Simplified operations and automation
- C. Server rationalization
- D. Hardware refresh

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

Scenario:

The consultant is reviewing a customer's storage and backup infrastructure design for a possible upgrade new solution design. The existing environment consists of several HP DL servers connected to HP 24 SAN Switches. An HP Enterprise Virtual Array 4400 is used as storage for their virtualized servers. Some HP D2700 Storage Systems are direct connected to their Windows servers. An HP StoreOnce D2D 4106fc Backup System is used as primary backup target. Once a week backup data copied to an HP MSL4048 as secondary backup target using HP Data Protector (DP) 6.1.

During the planning phase the consultant has to propose whether the existing solution can be upgraded or a new solution design is required.

Refer to the scenario:

Which resource can be used to gather average performance data of the secondary backup target?

- A. HP Performance Assessment Tool
- B. HP Media Operations
- C. HP Read Data
- D. HP Library and Tape Tools

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

You have designed a storage solution with various storage and server components. Which tool should you use to validate your solution?

- A. HP Storage Sizer
- B. HP SBW for Windows
- C. HP EBS Compatibility Matrix
- D. HP Single Point of Connectivity knowledge (SPOCK)

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

Which security features are used to protect customer data on HP StoreEasy Storage? (Select two.)

- A. BitLocker Drive Encryption
- B. HP TippingPoint
- C. HP Autonomy LiveVault
- D. Endpoint security protection
- E. SMB 3.x encryption and signing

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www8.hp.com/in/en/products/file-object-storage/product-detail.html?oid=5335825>

QUESTION 37

Which statements are true when zoning an HP MSA P2000 G3 FC array into a fabric? (Select two.)

- A. The array can be in multiple operating system zones.
- B. Overlapping storage port zones may be configured.
- C. Zoning is required for all operating systems that access the array.
- D. Zoning is not required for a single operating system. E. The array required port-based zoning to be configured.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation: About MSA2000 zoning, Read HP SAN Design Reference Guide pg 213 under Zoning

QUESTION 38

What is the preferred tool for determining Adaptive Optimization (AO) expected performance?

- A. HP Storage Sizer
- B. NinjaThin
- C. HP 3PAR System Reporter
- D. NinjaStars

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://h20195.www2.hp.com/v2/GetPDF.aspx%2F4AA4-0867ENW.pdf>

QUESTION 39

Which HP tool can be used to analyze all performance counters of the existing array?

- A. HP Performance Monitor
- B. HP EVAPerf
- C. Windows Perfmon
- D. HP 3PAR System Reporter

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

The CIO of a company with a business-critical data center wants to allow business units to create virtual servers and assign storage to meet charging

requirements. Which product provides non-technical users with a self-service portal to create Infrastructure as a Service (IaaS)?

- A. HP Intelligent Management Center
- B. HP Matrix Operating Environment
- C. HP FlexFabric
- D. HP Virtual Connect Enterprise Manager

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41

Which HP Storage product is optimized for Solid State Drive (SSD) performance?

- A. HP 3PAR StoreServ 7450 Storage
- B. HP 3PAR StoreServ 7200 Storage
- C. HP StoreVirtual 4335 Storage
- D. HP StoreVirtual 4730 Storage

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://h20195.www2.hp.com/V2/getpdf.aspx/4AA4-7264ENW.pdf>

QUESTION 42

A customer requires a solution providing a Network Attached Storage (NAS) environment. The environment must allow clients to continue to work uninterrupted during a failure of any of the NAS file server cluster nodes.

Which feature of an HP StoreEasy solution supports automatic multiple network pathing and aggregates bandwidth?

- A. Hosted Branch Cache
- B. Single instance Storage (SIS)
- C. File Server Resource Manager (FSRM)

D. Server Message Block (SMB) v3

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43

What does Converged Enhanced Ethernet (CEE) add to legacy Ethernet to allow it to carry block-based storage traffic?

- A. TCP offload
- B. Lossless behavior
- C. Jumbo frames
- D. Data re-transmission

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference:

http://h20565.www2.hp.com/hpsc/doc/public/display?docId=emr_na-c02664786

QUESTION 44

Scenario:

The consultant is reviewing a customer's storage and backup infrastructure design for a possible upgrade new solution design. The existing environment consists of several HP DL servers connected to HP 24 SAN Switches. An HP Enterprise Virtual Array 4400 is used as storage for their virtualized servers. Some HP D2700 Storage Systems are direct connected to their Windows servers. An HP StoreOnce D2D 4106fc Backup System is used as primary backup target. Once a week backup data copied to an HP MSL4048 as secondary backup target using HP Data Protector (DP) 6.1,

During the planning phase the consultant has to propose whether the existing solution can be upgraded or a new solution design is required.

Refer to the scenario:

Upgrading the backup application and the primary backup system to the latest software version would provide which advantage?

- A. Federated Deduplication can be implemented using HP StoreOnce Catalyst.

- B. A Media Agent can be installed on the HPStoreOnce Backup System using the HP DPStoreOnce client.
- C. Tape offload can be performed using direct-attached tape drives and the Data Protector echo copy functionality.
- D. The new HP Data Protector VTL license model can be applied.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45

Which requirement differentiates dual-domain from dual-path SAS?

- A. Dual-domain requires dual-port drives.
- B. Dual-domain requires less hardware.
- C. Dual-path requires dual-port controllers.
- D. Dual-path requires active SAS cables.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation: Read Redundancy in enterprise storage networks using dual-domain SAS configurations document. One of the key differences between dual-domain and dual-path architectures is the use of SAS or SATA drives. Dual-port SAS drives can provide the advantages of complete pathway redundancy in a dual-domain configuration. Customers seeking lower cost solutions can employ single port SATA drives in a dual-path configuration.

QUESTION 46

Which HP Server solution is optimized for data center virtualization to achieve the highest density, maximize power efficiency by sharing power supplies and fans, maintain total flexibility through a Single Point of Management, and support most of the HP Interconnect technologies?

- A. ML
- B. BL
- C. DL
- D. SL

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 47

Which drive interconnect technology uses SCSI commands and a serial bus?

- A. SAS
- B. iSCSI
- C. SDI
- D. SATA

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 48

You are using the HP Storage Sizer to create a Storage solution for your customer. You want to create the final proposal, but when you start the tool you receive a message that says the license has expired.

What should you do to obtain a new license'?

- A. Update the license with SUM
- B. Browse for it on the HP website
- C. Download it from the HP Partner Portal
- D. Send an email to your PAM

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49

A consultant develops a storage concept for an SMB customer. To prepare the CxO presentation, the consultant must identify business and technical challenges. Which challenges should be presented during a meeting with the CEO? (Select two.)

- A. Data is not protected at the sufficient level.
- B. Rack space is not used efficiently.
- C. Cost of information is not defined.
- D. Operational expenditures (OPEX) have to be reduced.
- E. Server provisioning takes too much time.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 50

When designing a solution, what is the best use-case for Solid State Disk drives?

- A. To facilitate big sequential writes
- B. In non-mission-critical environments
- C. For backup to disk solutions
- D. For mission-critical server applications, databases, and online storage

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 51

When designing a solution, what defines the length of time that is acceptable for a business to be without a specific application?

- A. Call to repair
- B. Response time
- C. SLO
- D. RTO

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:**QUESTION 52**

A customer requires a Digital Asset Management system with 140TB of high capacity, low performance disk storage. Their data center is in a hosted environment. Due to their data center per-rack-unit charging model, they have invested heavily in blade architecture which Virtual Connect Flex-10 connectivity. The Service Level Agreement mandates the data need to be highly available allowing for node failures.

Which HP Storage solution best meets the customer requirements?

- A. HP StoreVirtual 4000 Storage
- B. HP StoreServ 7200
- C. HP StoreSure 2000 Storage
- D. HP P4800 G2 LeftHand SAN

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:**QUESTION 53**

Which statements are true when comparing SLC and MLC SSDs? (Select two)

- A. MLC Flash devices provide faster write performance.
- B. MLC Flash devices allow higher storage density.
- C. SLC flash devices cost less.
- D. SLC flash provides greater reliability.
- E. SLC retains data for a decade without power.

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:**QUESTION 54**

An industry-leading insurance company in the UK has decided to build a redundant vSphere 5.1 infrastructure cluster with an HP BladeSystem and HP 3PAR StoreServ storage platform. As their consultant, you propose redundant HP BladeSystem c7000 Enclosures, FlexFabric Interconnect modules,

and four HP ProLiant BL660c Gen8 Servers, with two dual port Flex-Fabric LOMs in a vSphere ESX5.1 HA cluster. The support department needs to decrease the time of infrastructure management.

Which HP product provides hardware-level management for their HP server and storage solution?

- A. HP System Insight Manager
- B. Onboard Administrator
- C. Integrated Lights Out
- D. Virtual Connect Enterprise Manager

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 55

You have designed an environment based on HP BladeSystem enclosures equipped with Virtual connect Ethernet and Virtual Connect Fibre Channel modules. The customer has a restricted budget and while they understand the benefits of the Virtual Connect Fibre Channel module, they ask you to use Ethernet switches instead of the Virtual Connect Ethernet modules.

How should you respond to the customer request?

- A. The Virtual Connect Ethernet module is not needed, but you have to use HP 6120XG Blade Switch instead.
- B. The Virtual Connect Ethernet module is not needed but you have to use HP 6125G Ethernet Blade Switch instead.
- C. The Virtual Connect Ethernet module is needed and you always have to use the Fibre Channel and Ethernet Virtual Connect modules in pairs.
- D. The Virtual Connect Ethernet module is required to set up the Virtual Connect environment.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 56

Your customer has an HP MSA P2000 G3 with 48 x 600GB LFF SAS drives. The customer asks you for an upgrade path to the new HP MSA 2040 Storage.

What is the recommended upgrade path?

- A. Replace both controllers with HP MSA 2040 controllers and leverage data-in-place upgrades.
- B. Use HP Peer Motion data on the existing HP MSA P2000 G3 and tier it to a new MSA 2040.
- C. Purchase a new HP MSA 2040 and migrate data from the existing array.
- D. Repurpose existing disks and purchase a new chassis, IO Module, and controllers.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://h20195.www2.hp.com/v2/getpdf.aspx/4aa0-9383enw.pdf>

QUESTION 57

When planning a design for highly available storage clusters operating between multiple data centers, which factors protect against data center failures? (Select two.)

- A. passive backplanes in nodes
- B. redundant CMC implementation
- C. Network Raid 5
- D. site design and quorum managers
- E. data replication

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 58

You are demonstrating the HP D6000 enclosures for HP BladeSystem to a customer who has existing blade enclosures and requires high-density, low-cost external zoned storage. Which software do you use to assign a zone of HP D6000 drive Days to an HP BladeSystem server bay?

- A. Virtual Connect Manager (VCM)
- B. Virtual SAS Manager (VSM)
- C. Array Configuration Utility (ACU)
- D. Onboard Administrator (OA)

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference:

http://h20565.www2.hp.com/hpsc/doc/public/display?docId=emr_na-c02775487

QUESTION 59

Which storage functionality is leveraged to enable single volume migration with the HP 3PAR OS 3/1.3 storage federation enhancement? (Select two)

- A. HP 3PAR StoreServ Port Persistence
- B. HP 3PAR StoreServ Remote Copy
- C. HP 3PAR StoreServ Peer Persistence
- D. HP SPAR StoreServ Peer Motion
- E. HP SPAR StoreServ ALUA compliant host personas

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 60

What are characteristics of SSD drive technology? (Select two.)

- A. Any SSD will immediately lose data when power is removed.
- B. SSD drives are recommended for storage array-tiring strategies.
- C. SSD drives compress data natively via the drive interface with an embedded controller.
- D. SSD drives provide faster write performance by eliminating the need for raid calculations.
- E. SSD drives manage wear leveling via the drive interface board and embedded controller.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 61

While discussing the new HP StoreEasy solution, a customer expresses concerns about potential performance issues that have been associated with previous generations of Windows NAS systems.

Which new feature of the HP StoreEasy solution should you highlight to demonstrate the increased reliability and performance of the platform for files and applications?

- A. resilient file system (ReFS)
- B. support for Unified LUN Presentation from the GUI
- C. addition of Fibre Channel support for file shares, and storage for applications
- D. increased support for 35,000 concurrent users with three shares per single file server

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 62

Which technology has the ability to share data across an Ethernet network and is used primarily for file sharing and unstructured data?

- A. Fibre Channel network
- B. storage area network
- C. direct-attached storage
- D. network-attached storage

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 63

You are working with a local hospital to update their aging storage environment, which uses mid-range arrays. The hospital has a limited budget and is very concerned with availability and security

Which solution best addresses the customer issues?

- A. HP P9500 Storage Array with SED and CSS
- B. HP StoreServ 7200 with Proactive Care
- C. HP StoreServ 7400 4 node with SED and DMR
- D. HP StoreVirtual Network RAID-10 and DMR

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www8.hp.com/h20195/v2/getpdf.aspx/c04284872.pdf?ver=2>

QUESTION 64

Which HP product utilizes a common deduplication algorithm across the environment and allows deduplication at the source, media server, or target side?

- A. HP StoreSure with single Instance Storage
- B. HP StoreOnce with Catalyst
- C. HP StoreEasy with Windows 2012
- D. HP StoreServ with Thin Provisioning

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 65

An online gaming company is using vMotion to move a running virtual machine (VM) from one physical host to another without turning off the VM. Which HP Intelligent Management

Center module manages the VM migration?

- A. Network Traffic Analyzer
- B. Virtual Network Manager
- C. Virtual Connect Manager

D. Wireless Services Manager

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 66

Which multi-pathing protocol is used with SMB Multichannel?

- A. Network Aggregation
- B. iSCSI multi-pathing
- C. Fibre Channel trunking
- D. Windows DSM

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://h20195.www2.hp.com/v2/getpdf.aspx/4AA5-1967ENW.pdf?ver=1.0>

QUESTION 67

You are asked to design a backup, recovery, and archive (BURA) solution for a customer. After the classification and categorization of the data, it is determined that legacy data will be stored on HP StoreAll and HP StoreEver, and operational data will be stored on HP StoreOnce.

What should you suggest for critical data storage that will enable the customer almost instantaneous restore in the event of failures?

- A. HP 3PAR StoreServ Recovery Manager
- B. HP StoreVirtual Application Integrated Snapshots
- C. HP MSA Remote Snap Software
- D. HP Data Protector Catalyst

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://h10032.www1.hp.com/ctg/Manual/c03686192>

QUESTION 68

Your customer requires approximately 400 TB of file-serving storage. To satisfy this requirement they are looking for a highly-available NAS appliance. Which HP Storage solution meets this requirement?

- A. HP StoreAll 9400
- B. HP StoreEasy 5530
- C. HP StoreEasy 1830
- D. HP StoreVirtual 4900

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 69

A leading retail, corporate, and investment bank serves approximately one million customers within Central and Eastern Europe. The bank plans to modernize their data protection infrastructure to fulfill their strong data security expectations.

Which components should you suggest to provide encryption of their backed-up data? (Select two.)

- A. HP LTO-4 SB1760c Tape Blade
- B. HP LTO-3 Ultrium 800 GB WORM Drive
- C. HP Enterprise Secure Key Manager
- D. HP Ultrium 960 Tape Drives
- E. HP Ultrium 448 Tape Drives

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 70

Which improvement to the standard features of HP StoreEasy Storage enables deduplication of data?

- A. HP StoreOnce software
- B. HP Smart Array Advanced Pack 2.0
- C. HP Data Protector software
- D. Microsoft Windows Storage Server 2012

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 71

Which HP-hosted portal can be used to collect and share customer hardware details, warranties, and support contracts?

- A. HP System Management homepage
- B. HP Smart Update Portal
- C. HP Insight Online
- D. HP Insight Control

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 72

Which part of the HP Storage portfolio is described as a converged protocol storage system?

- A. HP StoreEasy
- B. HP 3PAR StoreServ
- C. HP StoreQnce
- D. HP StoreVirtual

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www8.hp.com/in/en/products/data-storage/storeeasy.html>

QUESTION 73

What are HP iLO Management Engine features? (Select two.)

- A. Intelligent Provisioning
- B. Utilization Manager
- C. BIOS Vaccine
- D. Agentless Management
- E. Lights-Out Recovery

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 74

A customer has a head office with a number of branch offices that have no local servers. The customer requires a file-serving solution that provides these benefits:

Which solution should you propose to meet the customer requirements?

- A. HP StoreAll 9000 Storage
- B. HP StoreEasy 1000 Storage
- C. HP StoreSure 2000 Storage
- D. HP StoreEasy 5000 Storage

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 75

Which HP management tool does Virtual Connect Enterprise Manager (VCEM) plug in to?

- A. HP Integrated Remote Console (IRC)
- B. HP Enclosure Firmware Management (EFM)
- C. HP Systems Insight Manager (SIM)
- D. HP Network Node Manager i (NNMi)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 76

When designing an HP 3PAR StoreServ environment that involves HP Peer Motion, which configuration requirements must be considered? (Select Two)

- A. All host servers connected to the target array must be removed from the Fibre Channel zoning to prevent data corruption.
- B. Source and destination arrays must be at InForm software version 3.1.2 or higher.
- C. The destination system cannot import volumes with existing Remote Copy membership.
- D. Volume Sets are not supported during the migration and volume-set membership must be removed.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 77

Which attributes can be specified in an HP Virtual Connect Server Profile? (Select two)

- A. iSCSI Initiator Name
- B. Boot Parameters
- C. Fibre Channel zoning
- D. MAC and WWN addresses
- E. Server Hostname

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 78

Which HP B-series SAN Switch feature enables the direct connection of servers to any SAN fabric?

- A. Access Gateway
- B. Server Application Optimization
- C. Extended Fabric
- D. Adaptive Networking

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 79

Which HP Storage solution is built on an architecture that allows a customer to scale capacity and performance linearly without incurring downtime or performance bottlenecks?

- A. HP StoreSure
- B. HP StoreServ
- C. HP StoreEasy
- D. HPStoreVirtual

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 80

The HP StoreEver MSL Tape Libraries support which type of tape drives?

- A. LTO

- B. DAT
- C. ATI
- D. SDLT

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www8.hp.com/us/en/products/tape-automation/product-detail.html?oid=3936307>

QUESTION 81

Which HP 3PAR StorServ tool can be used to collect detailed server configuration information such as the OS type version, WWN of HBAs, the iSCSI name, and host multipathing information over a secure communication channel?

- A. System Reporter
- B. Web Services API
- C. Recovery Manager
- D. Host Explorer

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 82

Which advantage does a spinning media drive have over an SSD drive?

- A. No long term data loss in unpowered drives
- B. Lower cooling needs
- C. Higher sequential write rates
- D. Quicker start up time

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 83

Which resource supports implementing a drawing of the storage network cable management in the documentation?

- A. HP Single Point of Connectivity Knowledge (SPOCK)
- B. HP Storage Sizer
- C. HP Network Design Center
- D. VisioCafe

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 84

A global engineering company's IT manager needs to give offshore contractors access to specific corporate data and applications. Permission is required to access the network anytime from anywhere on almost every device. Which management solution can authenticate network access and determine if the endpoints are compliant with the security policies of this company?

- A. Wireless Services Manager
- B. User Access Management
- C. HP Peer Motion
- D. Virtual network Manager

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 85

What is a function of Distributed File System Replication (DFSR)?

- A. Detects changes to the data in a file and replicates only the changed file blocks
- B. Replicates deduplicated block data across multiple servers and sites
- C. Detects changes to the data in a file and replicates the changed file
- D. Replicates block data between HP SmartArray controllers

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www8.hp.com/h20195/v2/getpdf.aspx/c04136963.pdf?ver=5>

QUESTION 86

Which support option would you recommend for an HP storeServ 7400 for customers with sensitive data?

- A. HP 3Y 4hr 24x7 Proactive Care w DMR SVC
- B. HP 3Y Foundation Care 24x7 w DMR SVC
- C. HP 3Y 4hr 24x7 Proactive Care SVC
- D. HP 3Y 6hr CTR Proactive Care SVC

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://www.entercomputers.com/hp-mds-8-24c-fabric-switch.html>

QUESTION 87

A CIO is interested in moving their infrastructure to a private cloud solution in the future. The consultant advises implementing an HP Virtual System.

Which stage of migration is the HP Virtual System positioned?

- A. Virtualize and automate
- B. Self-service virtualization infrastructure
- C. Self-service applications with lifecycle management
- D. Standardize and consolidate

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 88

Which HP tool document the server, storage, and storage network infrastructure and offers firmware update recommendations?

- A. HP SAN Reporter
- B. HP SAN Designer
- C. HP SAN Health
- D. HP SAN Visibility

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation: SAN Visibility securely automates the inventory process for switches, devices, firmware versions, and fabrics saving you time, effort, and money by doing an analysis of your SAN configuration.

SAN Visibility helps with Firmware alignment.

QUESTION 89

What does an Instant-On Enterprise need to achieve business agility, operational efficiencies, and improved risk management?

- A. management
- B. standardization
- C. consolidation
- D. innovation

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 90

Which HP Storage architecture allows you to scale by clustering storage nodes?

- A. HP StoreVirtual
- B. HP StoreEasy
- C. HP StoreSure
- D. HP 3PAR StoreServ

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation: The StoreVirtual is built on iSCSI storage clustering architecture that allows you to scale capacity and performance linearly and without incurring downtime or performance bottlenecks.

QUESTION 91

Which RAID level protects against two concurrent data drive failures?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 92

Which HP 3PAR StoreServ tool can be used to collect detailed server configuration information such as the OS type and version, WWN of HBAs, the iSCSI name and host multipathing information over a secure communication channel?

- A. Recovery Manager
- B. Web Services API
- C. System Reporter
- D. Host Explorer

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 93

A customer has recently completed an acquisition. The original data center consisted of HP BladeSystem servers and an HP LeftHand P4000 Storage solution. The acquired environment consists of servers with only internal storage. What would you recommend to the customer to create a highly available replication environment for their data? (Select two)

- A. HP StoreOnce VSA
- B. Riverbed WAN replicator
- C. Network RAID
- D. HP StoreVirtual VSA
- E. HP Virtual Connect FlexFabric

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 94

Which statement about RPO is true?

- A. RPO is the point in time relative to the failure to which you need preservation of data.
- B. RPO is the maximum tolerable length that a storage system can be down after a disaster occurs.
- C. RPO is the duration of time and a service level within which a business process must be restored after a disaster.
- D. RPO attaches to the business process and not to the resources required to support the process.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 95

When designing an HP Virtual connect FlexFabric network, how many downlink connections can be configured per module pair to an HP ProLiant

BL460c. Gen8 server with an HP FlexFabric 2-port FlexLOM?

- A. 2
- B. 4
- C. 8
- D. 16

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 96

What is required in order to implement a Software-Defined Network (SDN)? (Select two)

- A. support for redundant data pathways using available bandwidth
- B. data flow evaluation that allows high value data flows to move through the network before low value flows
- C. integration of the infrastructure, control and application layers into a single, physical switch
- E. dynamic application of packet policy across multiple devices

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 97

HOTSPOT

Match the MSA feature to the appropriate model.

Hot Area:

Maximum 3 disk enclosures

	▼
MSA1040	
MSA2040	

Only 2 ports/controller

	▼
MSA1040	
MSA2040	

SAS support

	▼
MSA1040	
MSA2040	

SSD/SED support

	▼
MSA1040	
MSA2040	

16Gb FC connectivity

	▼
MSA1040	
MSA2040	

Correct Answer:

Maximum 3 disk enclosures

MSA1040

MSA2040

Only 2 ports/controller

MSA1040

MSA2040

SAS support

MSA1040

MSA2040

SSD/SED support

MSA1040

MSA2040

16Gb FC connectivity

MSA1040

MSA2040

Section: (none)

Explanation

Explanation/Reference:

QUESTION 98

Which device facilitates the migration of data between heterogeneous storage systems?

- A. HP SN6000
- B. HP 2408
- C. HP MPX200
- D. HP SN8000C

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 99

Which HP 3PAR StoreServ feature will ensure minimum IOPS and latency for a specific application?

- A. HP 3PAR StoreServ Enhanced Priority Optimization
- B. HP 3PAR StoreServ configured with SSDs
- C. HP 3PAR StoreServ Adaptive Optimization
- D. HP 3PAR StoreServ Dynamic Optimization

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference:

<http://h20195.www2.hp.com/v2/GetPDF.aspx%2F4AA4-0867ENW.pdf>