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NS0-146

NetApp Certified Storage Associate - Hybrid Cloud



Exam A

QUESTION 1

Your primary data center is located in NYC, New York, USA and hosts the majority of your user data. You also have a remote office in Seoul, South Korea. You are also using ONTAP Cloud in the New York region as a backup repository. You are asked to provide local copies of the backup repository to the users in Seoul.

How would you accomplish this task?

- A. Create a second instance of ONTAP Cloud in the Seoul region, and use SnapMirror to replicate the data.
- B. Copy data to disk drives and send them to Seoul.
- C. Create a long-haul VPN tunnel from your primary data center to Seoul.
- D. Back up the data to tape and use a courier to send the tapes to Seoul.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2 You want to transfer data to a cloud-based storage solution.

Which NetApp technology will accomplish this task?

- A. FlexVol
- B. SnapMirror
- C. SnapRestore
- D. FlexClone

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://cloud.netapp.com/blog/azure-storage-replication-snapmirror>

QUESTION 3 You are deploying a virtual AltaVault appliance on a hypervisor for the first time.

In this scenario, which statement is correct about the resource allocation for vCPU, memory, and disk space to be provisioned?

- A. Resources are controlled by the hypervisor and not configurable.
- B. Resources are limitless and will consume what they need.
- C. Resources must be over-provisioned to ensure proper use.
- D. Resources must be reserved.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4 Which statement describes SAN storage?

- A. SAN storage is file based.



- B. SAN storage is block based.
- C. SAN storage is volume based.
- D. SAN storage is aggregate based.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://stonefly.com/resources/what-is-file-level-storage-vs-block-level-storage>

QUESTION 5 What are two prerequisites for a two-node NetApp cluster?
(Choose two.)

- A. Cluster licenses must be enabled.
- B. Cluster interconnect cables must be connected.
- C. A data aggregate must be defined.
- D. SAN or NAS protocols must be defined.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6 You are setting up an ESX cluster. You need to provision NFS datastores for use by all nodes in the cluster.

Which change to the virtual switch is required to support NFS data traffic?

- A. Add a vmkernel port to the virtual switch.
- B. Add a Distributed Virtual switch.
- C. Add a VM Network port group to the virtual switch.
- D. Enable Promiscuous Mode on the virtual switch.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7 Which statement is true for solid state drives used in NetApp storage systems?

- A. Solid state drives are volatile.
- B. Solid state drives are not hot-swappable.
- C. Solid state drives write in pages.
- D. Solid state drives are mechanical drives.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.extremetech.com/extreme/210492-extremetech-explains-how-do-ssds-work>

QUESTION 8

An alert is being generated about a management network switch. These alerts are being monitored by another team and the alerts should no longer be generated. Which action will stop the generation of the alerts for only this switch?

- A. Set the polling interval to zero.
- B. Disable cdpd on the node.
- C. Disable cdpd on the cluster.
- D. Delete the cluster-switch entry.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9 What are two high-availability (HA) configuration differences between ONTAP and ONTAP Cloud? (Choose two.)

- A. Storage is not shared between nodes. It is synchronously mirrored so that data is available in the event of a failure.
- B. A mediator instance is required to assist in storage takeover and giveback between the nodes.
- C. The cloud systems are connected using a virtual interconnect to maintain HA in the event of a failover.
- D. NVRAM is used in an HA pair to mirror its write cache and perform HA monitoring.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

Reference: https://docs.netapp.com/us-en/occm/concept_ha.html



QUESTION 10 Your company is interested in using a public cloud for storage and Web-based applications.

In this situation, what are two considerations? (Choose two.)

- A. compliance
- B. storage hardware type
- C. vendor lock-in
- D. network partners

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11 Which two statements are correct about LUNs? (Choose two.)

- A. A LUN is accessed using an NFS mount.
- B. A LUN is a logical representation of a SCSI disk.
- C. LUNs are not supported on a single-node cluster.
- D. LUNs should never be created in the SVM root volume.

Correct Answer: BC

Section: (none)

Explanation**Explanation/Reference:**

QUESTION 12 You are creating accounts for three co-workers on an AltaVault appliance. Each user needs different levels of access.

Which two user roles are available in this scenario? (Choose two.)

- A. backup role
- B. general role
- C. disaster recovery role
- D. replication role

Correct Answer: AB

Section: (none)

Explanation**Explanation/Reference:**

QUESTION 13 What are two operating modes for an AltaVault AVA400 appliance? (Choose two.)

- A. backup mode
- B. virtual storage mode
- C. cold storage mode
- D. cluster mode

Correct Answer: AC

Section: (none)

Explanation**Explanation/Reference:**

Reference: https://library.netapp.com/ecm/ecm_get_file/ECMLP2786018

QUESTION 14 You need to restore the OnCommand Cloud Manager internal database.

In this scenario, in which directory would you look for the most recent backup?

- A. /download on the host that the user interface is running on
- B. /usr/bin on the OnCommand Cloud Manager OS
- C. /var on the ONTAP Cloud instance
- D. /bin on the mediator host

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:**

QUESTION 15 An enterprise offers media services globally to its users.

What would provide a good user experience in this scenario?

- A. The enterprise should use a cloud service to host the application with cloud distribution to replicate the data globally.



- B. The enterprise should host their application in a centralized location, regardless of where the users are located.
- C. The enterprise should install storage systems in various regions and connect them with private, wide-area links.
- D. The enterprise should use a cloud service to host the application but leave the data (media) in a centralized location.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16 Which three protocols are used for DAS connections?

(Choose three.)

- A. SCSI
- B. FCoE
- C. NFS
- D. ATA
- E. SATA

Correct Answer: ADE

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.webopedia.com/TERM/D/direct_attached_storage.html

QUESTION 17 You are asked by your team to install a tool with a single dashboard view that can monitor the overall health of multiple ONTAP storage systems, including availability, capacity, performance, and data-protection relationships.

Which OnCommand tool would you install in this scenario?

- A. OnCommand Cloud Manager
- B. OnCommand Performance Manager
- C. OnCommand Unified Manager
- D. OnCommand System Manager

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.netapp.com/us/products/data-infrastructure-management/unified-management.aspx>

QUESTION 18 Which two statements apply to ONTAP Cloud licensing? (Choose two.)

- A. ONTAP Cloud for AWS does not require a license; AWS hourly fees include license fees.
- B. A single ONTAP Cloud license can be used for multiple use only if deployed in different regions.
- C. ONTAP Cloud for AWS-BYOL (Bring Your Own License) is a valid license scheme.
- D. The ONTAP Cloud for AWS license is generated by AWS.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19 In a virtual server environment, what do virtual machines share?

- A. the guest's operating system
- B. RAM
- C. the same IP address
- D. DNS entries

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20 In the Amazon Web Services admin console, each region is broken down in multiple, distinct, and isolated _____.

- A. Resource Groups
- B. S3 containers
- C. Virtual Private Clouds
- D. Availability Zones

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-regions-availability-zones.html>



QUESTION 21 Which three network types are used by ONTAP?
(Choose three.)

- A. management network
- B. cluster network
- C. virtual private network
- D. data network
- E. SP/RLM network

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

You are asked to extend ONTAP to AWS with ONTAP Cloud. You need to deploy ONTAP Cloud in HA mode.

Which statement is correct in this scenario?

- A. ONTAP Cloud HA must be deployed in different AWS regions.
- B. ONTAP Cloud HA must be deployed in different AWS availability zones.
- C. ONTAP Cloud HA must be deployed in private and public clouds to achieve high availability.
- D. ONTAP Cloud HA must be deployed with NPS to achieve high availability.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://library.netapp.com/ecmdocs/ECMLP2484721/html/GUID-46865CCE-19CE-45C2-BEC4-2FA222CE9537.html>

QUESTION 23 What is the name of the administrative shell type shown below?

NetApp-01>

- A. nodeshell
- B. clustershell
- C. systemshell
- D. loader prompt

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.netapp.com/platstor/topic/com.netapp.doc.hw-controller-add/GUID-99449C85-71F5-4F08-BD50-C6D90286C3CA.html>

QUESTION 24

You are the OnCommand Workflow Automation administrator. You are given a list of three names and the workflow-automation duties that each person needs to be able to perform. User A needs to be able to define workflows, including the goals for the workflows and the tasks that make up the workflows. User B needs to be able to preview and run certain workflows. User C needs to view the status of a workflow execution and must be notified of changes in the status of certain workflow executions.

Which list identifies the OnCommand WorkFlow automation roles for yourself and the remaining three users?

- A. administrator, architect, operator, and guest
- B. architect, administrator, operator, and guest
- C. administrator, architect, backup, and operator
- D. architect, administrator, backup, and operator

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25 What are three examples of hypervisor platforms?

(Choose three.)

- A. Citrix XenServer
- B. SuSE Linux
- C. Microsoft Hyper-V
- D. VMware vSphere
- E. Microsoft Exchange 2016

Correct Answer: ACD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 26

Which implementation would be used for a storage system with a very high IOP requirement?

- A. traditional array
- B. all-flash array
- C. server flash
- D. hybrid array

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27 Which statement describes the decoder process on an AltaVault appliance?

- A. The decoder process on the AltaVault appliance replicates to the cloud-storage target any write that is made to the AltaVault appliance cache.
- B. The decoder process on the AltaVault appliance processes writes from a backup application to the AltaVault appliance.
- C. The decoder process on the AltaVault appliance deletes and reclaims space from the appliance cache and the cloud, upon user request.
- D. The decoder process on the AltaVault appliance processes reads from the AltaVault appliance to a backup application.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 28 How are virtual LANs (VLANs) used?

- A. to combine two or more physical ports
- B. to segment a physical port into multiple logical interfaces (LIFs)
- C. to segment a network into multiple logical networks
- D. to combine two or more logical interfaces (LIFs)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29 You are creating a new cluster from the command line for the first time and you have turned on the first node.

In this scenario, which wizard will you be prompted to use?

- A. configuration wizard
- B. vserver setup wizard
- C. cluster setup wizard
- D. sp setup wizard

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://library.netapp.com/ecmdocs/ECMP1654308/html/GUID-6A814DD5-602C-4398-8742-41657A99785F.html>

QUESTION 30 Which statement describes NAS storage?

- A. NAS storage is aggregate based.
- B. NAS storage is volume based.
- C. NAS storage is file based.
- D. NAS storage is block based.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://stonefly.com/resources/what-is-file-level-storage-vs-block-level-storage>

QUESTION 31 A NAS client connects to a volume that is on a different node than the LIF that it is accessing.

In this scenario, the client is said to have which type of access to the volume?

- A. external
- B. round robin
- C. indirect
- D. multipath

Correct Answer: C

Section: (none)

Explanation

**Explanation/Reference:**

QUESTION 32 Two requirements for a new NetApp storage system are shown below.

--leverage your existing modern Ethernet network infrastructure --ability to use SAN protocols

Which two statements are true, in this scenario? (Choose two.)

- A. Fibre Channel cables must exist on the network.
- B. SAN protocols are limited to specific NetApp FAS storage system models.
- C. FCoE switches transports SAN protocols.
- D. IP transports SAN protocols.

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:**QUESTION 33**

What does a subnet on ONTAP define?

- A. a group of broadcast domains

- B. a group of logical interfaces (LIFs)
- C. a group of IP addresses
- D. a group of Ethernet ports

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://library.netapp.com/ecmdocs/ECMP1636021/html/GUID-5A651084-BB22-4FB4-8629-D05823104754.html>

QUESTION 34 Which ONTAP network type requires a private network?

- A. management network
- B. cluster network
- C. SP/RLM network
- D. data network

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35 Your business cannot incur large down times, even in the event of disasters or other local outages.

Which data protection technology would satisfy these requirements?

- A. MetroCluster
- B. SnapDrive
- C. Snapshot
- D. SnapVault

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36 Which statement is true about Fibre Channel switches?

- A. Fibre Channel speeds are negotiated by the storage system only.
- B. Fibre Channel speeds are negotiated by the host only.
- C. Fibre Channel switches natively support 1 Gbps and 4 Gbps speeds only.
- D. Fibre Channel switches natively support speeds up to 16 Gbps.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37 Which compute option would you use to create virtual machines in AWS?



- A. EBS
- B. CloudWatch
- C. CloudStack
- D. EC2

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38 Which two statements are correct about server virtualization? (Choose two.)

- A. Server virtualization reduces data system complexity.
- B. Server virtualization reduces capital and operating costs.
- C. Server virtualization enables business continuity and disaster recovery.
- D. Server virtualization provides simplified, software-defined data.

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://searchdisasterrecovery.techtarget.com/definition/virtual-disaster-recovery>

QUESTION 39 Which command is used to display summary information for all SnapMirror relationships?

- A. `snapmirror relationship all`
- B. `snapmirror show relationships`
- C. `snapmirror all show`
- D. `snapmirror show`

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40 What are two characteristics of organizations that implement a private cloud? (Choose two.)

- A. These organizations have an open data security and protection policy.
- B. These organizations can run a next-generation cloud data center on their own.
- C. These organizations rely heavily on their own data and applications.
- D. These organizations use hardware managed by another provider.

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41 Which two phrases define “server virtualization”? (Choose two.)

- A. using an application client such as Outlook to manage a mailbox
- B. running a server from a USB drive
- C. running multiple operating systems on a single host
- D. using a hypervisor to host application servers

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 42 Which two statements are true about NetApp Snapshot copies? (Choose two.)

- A. Users can store up to 255 Snapshot copies per volume.
- B. Snapshot copies automatically deduplicate and compress the original data.
- C. Data is moved when a Snapshot copy is created.
- D. All Snapshot copies are accessible as read-only and online versions of the data.

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.netapp.com/us/media/ds-2477.pdf>

QUESTION 43 A customer is using VMware ESXi, Microsoft Hyper-V 2012 R2, and Linux KVM. They will be deploying AltaVault appliances on the hypervisors.

Which AltaVault appliance version should be used in this scenario?

- A. AVA-v2
- B. AVA-c4
- C. AVA800
- D. AVA400

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44 Which two statements are true about storage networking protocols? (Choose two.)

- A. iSCSI protocol uses both FC and FCIP, if available.
- B. iSCSI uses IP, FC uses Fibre Channel, and SCSI uses SAS.
- C. iSCSI and SCSI use IP, and FC uses FC and FCoE over SAS.
- D. IP can carry all storage protocols if configured properly.

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45 What are two benefits of storage virtualization? (Choose two.)

- A. efficient utilization
- B. increased flexibility
- C. decreased CPU utilization
- D. decreased complexity

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 46 What are two important considerations when provisioning storage? (Choose two.)

- A. expected data consumption
- B. speed of network
- C. hosted file system
- D. power consumption

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:



QUESTION 47 Which efficiency technology provides increased utilization?

- A. FlexClone
- B. deduplication
- C. compression
- D. thin-provisioning

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <http://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.ont-sm-help-900%2FGUID-C29180C1-0254-4447-83A9-DC2117148A0B.html>

QUESTION 48

A volume that is connected through a junction to the SVM root volume is on the third node of a four-node cluster. An NFS client accesses the volume through a LIF on the third node. You want to ensure client access if the volume is moved to the second node.

In this scenario, which statement is correct?

- A. Move the LIF to the second node.
- B. No action is required.
- C. Remount the volume on the client.
- D. Modify the junction point.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49 You are reviewing StorageGRID Webscale policies to determine how you want to protect or distribute copies of data.

What are two reasons to use information lifecycle management (ILM) policies in this scenario? (Choose two.)

- A. Use an ILM policy to read application requests and get objects from other sites.
- B. Use an ILM policy to replicate or use erasure code object data across storage tiers, data centers, on-premises, or public cloud services.
- C. Use an ILM policy to convert CDMI requests to S3 puts.
- D. Use an ILM policy to control the changes to object data placement over time, based on the value of the objects properties.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 50 Which two statements are true about data storage when compared to data networks? (Choose two.)

- A. The characteristics of data storage consist of data over time, information repository, capacity, and disks.
- B. The characteristics of data storage consist of data over time, information repository, information movement, and disks.
- C. The characteristics of a data network consist of speed, data over distance, information movement, and switches.
- D. The characteristics of a data network consist of speed, data over distance, information movement, data over time, and switches.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 51 You are required to provision LUN-based disk devices for a Windows cluster using ONTAP Cloud as the storage platform.

Which transport would you use in this scenario?

- A. FC
- B. iSCSI
- C. FCoE
- D. NFS

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 52 Which statement describes NetApp Private Storage for Cloud?

- A. NetApp Private Storage for Cloud is data storage that is located only on a cloud provider's equipment and accessible only to NetApp employees.
- B. NetApp Private Storage for Cloud is data storage that is located in a leased data center with high-speed transport to cloud providers.

- C. NetApp Private Storage for Cloud is data storage that is restricted to remote NetApp locations.
- D. NetApp Private Storage for Cloud is data storage that is located in a leased data center and accessible only to internal employees.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 53 An administrator wants to monitor both NetApp and third-party systems from a single view.

Which product would the administrator use to satisfy this requirement?

- A. OnCommand Unified Manager
- B. OnCommand Insight
- C. OnCommand System Manager
- D. OnCommand Performance Manager

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://support.solarwinds.com/SuccessCenter/s/article/SRM-Enable-a-NetApp-OnCommand-for-7-mode-or-Clustered-Data-ONTAP-including-the-NetApp-AFF-series-array>

QUESTION 54

You are asked to install physical ONTAP storage in an Equinix data center, with the end goal of creating a hybrid cloud using ONTAP Cloud.

After the physical installation is complete, what would be your next step?

- A. Link a combination of Amazon, Microsoft, and Softlayer clouds.
- B. Combine VMware and Microsoft Hyper-V virtual machines.
- C. Link the physical storage and cloud-based storage in AWS.
- D. Create a distributed combination of multiple vendor physical storage.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 55

You are helping a customer set up a new iSCSI software initiator on their host. They want to include the NetApp controller IQN to discover the LUNs.

In this scenario, what is a valid IQN for them to use as a discovery target?

- A. iqn.1992-08.com.netapp:sn.98765438053
- B. iqn.1992-08.com-netapp.sn.98765438053
- C. iqn.1992.08.com.netapp-:sn.98765438053
- D. iqn.1992-08-com.netapp.sn.98765438053

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://techcommunity.microsoft.com/t5/Storage-at-Microsoft/Introduction-of-iSCSI-Target-in-Windows-Server-2012/ba-p/424357>

QUESTION 56

A new ONTAP system is being deployed and a volume is being provisioned that will be the destination for long-term storage of many other volumes in the production environment.

Which SnapVault feature provides this capability?

- A. storage efficiency
- B. block transfer
- C. fan-in deployment
- D. disaster recovery

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 57

Which storage views are available in OnCommand Cloud Manager? (Choose two.)

- A. working environment
- B. volumes
- C. disks
- D. storage system

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:



QUESTION 58 You are setting up a new share for your data that backs up to an AltaVault appliance.

In this situation, what are three configurable parameters available for share optimization? (Choose three.)

- A. data pinning
- B. data replication
- C. deduplication
- D. early eviction
- E. archive mode

Correct Answer: ACD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 59

What does ONTAP Cloud use to manage the health and access of a high-availability cluster?

- A. OnCommand System Manager
- B. OnCommand Insight
- C. a mediator instance

D. VMware Virtual Center

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 60 You are deploying several AltaVault appliance instances in virtualized and physical environments.

In this scenario, which two connection methods you would use during the initial setup? (Choose two.)

- A. from a serial connection for physical appliances
- B. from an SSH session for physical appliances
- C. from client console for virtualized environments
- D. from an SSH session for virtualized environments

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference: