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Q&A

Exam   :   **DEA-1TT4**

Title   :   Associate - Information
Storage and Management

Version   :   V14.02
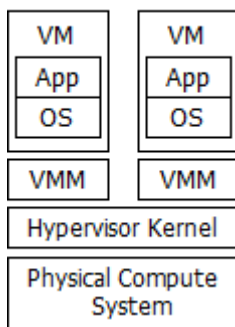
1.What is an accurate statement about Governance?

A. Restrict access to certain users

B. Ensure removal of security risks

C. Authorize policy-making decisions

D. Demonstrate adherence to polices

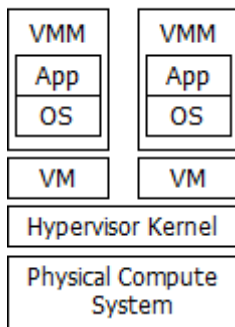**Answer:** C

2.Which exhibit represents a Type 1 hypervisor?

A)
Exhibit 1:
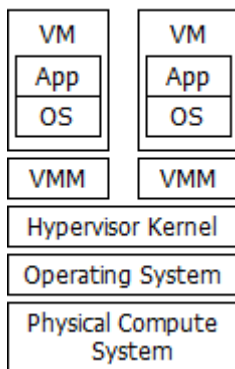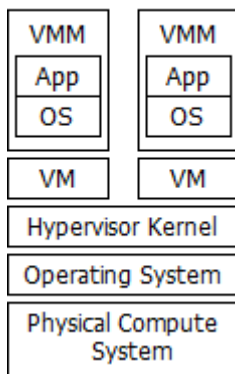
```
┌──────────┐  ┌──────────┐
│   VM     │  │   VM     │
│ ┌──────┐ │  │ ┌──────┐ │
│ │ App  │ │  │ │ App  │ │
│ ├──────┤ │  │ ├──────┤ │
│ │  OS  │ │  │ │  OS  │ │
│ └──────┘ │  │ └──────┘ │
└──────────┘  └──────────┘
┌──────────┐  ┌──────────┐
│   VMM    │  │   VMM    │
└──────────┘  └──────────┘
┌─────────────────────────┐
│    Hypervisor Kernel    │
└─────────────────────────┘
┌─────────────────────────┐
│    Physical Compute     │
│        System           │
└─────────────────────────┘
```

B)
Exhibit 2:

```
┌──────────┐  ┌──────────┐
│   VMM    │  │   VMM    │
│ ┌──────┐ │  │ ┌──────┐ │
│ │ App  │ │  │ │ App  │ │
│ ├──────┤ │  │ ├──────┤ │
│ │  OS  │ │  │ │  OS  │ │
│ └──────┘ │  │ └──────┘ │
└──────────┘  └──────────┘
┌──────────┐  ┌──────────┐
│   VM     │  │   VM     │
└──────────┘  └──────────┘
┌─────────────────────────┐
│    Hypervisor Kernel    │
└─────────────────────────┘
┌─────────────────────────┐
│    Physical Compute     │
│        System           │
└─────────────────────────┘
```

C)
Exhibit 3:

```
┌──────────┐  ┌──────────┐
│   VM     │  │   VM     │
│ ┌──────┐ │  │ ┌──────┐ │
│ │ App  │ │  │ │ App  │ │
│ ├──────┤ │  │ ├──────┤ │
│ │  OS  │ │  │ │  OS  │ │
│ └──────┘ │  │ └──────┘ │
└──────────┘  └──────────┘
┌──────────┐  ┌──────────┐
│   VMM    │  │   VMM    │
└──────────┘  └──────────┘
┌─────────────────────────┐
│    Hypervisor Kernel    │
└─────────────────────────┘
┌─────────────────────────┐
│    Operating System     │
└─────────────────────────┘
┌─────────────────────────┐
│    Physical Compute     │
│        System           │
└─────────────────────────┘
```

D)

Exhibit 4:

```
┌──────┐ ┌──────┐
│ VMM  │ │ VMM  │
├──────┤ ├──────┤
│ App  │ │ App  │
├──────┤ ├──────┤
│  OS  │ │  OS  │
└──────┘ └──────┘
┌──────┐ ┌──────┐
│  VM  │ │  VM  │
└──────┘ └──────┘
┌─────────────────┐
│Hypervisor Kernel│
├─────────────────┤
│Operating System │
├─────────────────┤
│Physical Compute │
│     System      │
└─────────────────┘
```

A. Option A
B. Option B
C. Option C
D. Option D
Answer: A

3.An Ethernet switch has eight ports and all ports must be operational for 24 hours, from Monday through Friday.
However, a failure of Port4 occurs as follows:
• Monday = 8 PM to 9 PM
• Wednesday 7 PM to 9 PM
• Thursday = 6 AM to 9 AM
• Saturday = 4 PM to 7 PM
What is the MTTR of Port 4?
A. 2 hours
B. 3 hours
C. 28 hours
D. 38 hours
Answer: A

4.What accurately describes an iSCSI HBA?
A. Performs both iSCSI and TCP/IP processing
B. Requires CPU cycles for TCP/IP processing
C. Requires a software adapter with built-in functionality
D. Enables transmission of data through iSCSI tunneling
Answer: A
Explanation:
Reference: https://www.dell.com/downloads/global/power/ps4q09-20090419-McConnell.pdf

5.When using the erasure coding technique in an object-based storage system, data is divided into 12 data segments and 4 coding segments.
What is the maximum number of disk drive failures against which data is protected by the configuration?
A. 3
B. 4

C. 8

D. 12

Answer: B

6.What is a key advantage of cloning a virtual machine (VM)?

A. Ability to run new VMs simultaneously with the same IP address.

B. Reduces the time required to create multiple copies of a VM.

C. Improves the performance of an existing VM and new VMs.

D. Eliminates the need to create multiple snapshots for a VM.

Answer: B

7.A company is using an intrusion detection and prevention system (IDPS) to scan and analyze intrusion events.

Which IDPS technique uses a database that contains known attack patterns?

A. Role-based

B. Profile-based

C. Signature-based

D. Anomaly-based

Answer: C

Explanation:

Reference: https://pdfs.semanticscholar.org/e874/32283e90da5bceb3b17550570ec3a210f43c.pdf

8.DRAG DROP

In a backup operation, what are the correct sequence of steps after the backup server initiates the scheduled backup process?

Storage node sends data to the backup device	STEP 1
Backup server instructs the storage node to load the backup media in the backup device	STEP 2
Backup server updates the backup catalog	STEP 3
Backup clients send the data to the storage node and updates the backup catalog on the backup server	STEP 4
Storage node sends metadata and media information to the backup server	STEP 5

Answer:

Storage node sends data to the backup device	Backup server instructs the storage node to load the backup media in the backup device
Backup server instructs the storage node to load the backup media in the backup device	Backup clients send the data to the storage node and updates the backup catalog on the backup server
Backup server updates the backup catalog	Storage node sends data to the backup device
Backup clients send the data to the storage node and updates the backup catalog on the backup server	Storage node sends metadata and media information to the backup server
Storage node sends metadata and media information to the backup server	Backup server updates the backup catalog

9.In an archiving environment, how is a content address created in a content addressable storage (CAS) system to store an object?

A. From the metadata of an object.

B. By using the logical address of the memory space.

C. From the binary representation of an object.

D. By using the physical address of the storage device.

Answer: C

10.What is a benefit of link aggregation?

A. Optimizes fabric performance by distributing network traffic across ISLs.

B. Improves ISL utilization by increasing the network traffic on a specific ISL.

C. Yields a higher throughput by combining two parallel ISLs into a single physical ISL.

D. Saves bandwidth by restricting traffic to a specific potentially congested ISL.

Answer: C

Explanation:

Reference: https://www.mycloudwiki.com/san/fc-san-topologies/

11.In a compute-based storage area network (SAN), what is a function of the metadata manager?

A. Holds cluster-wide mapping information and load balancing in a compute-based SAN.

B. Performs the I/O operations on the local storage of a compute system as requested by a client.

C. Provides an interface to the software-defined storage controller.

D. Controls all data read and write operations in a compute-based SAN.

Answer: A

12.Why is it important for organizations to store, protect, and manage their data?

A. Reduce the amount of data to be replicated, migrated, and backed up.

B. Rapidly develop and deploy modern applications for business improvement.

C. Develop new business opportunities by leveraging existing data.

D. Reduce the complexity in managing the data center environment.

Answer: C

13.A Fibre Channel switch has eight ports and all ports must be operational 24×7.

However, a failure of Port 5 occurs on a particular week as follows:

• Monday = 11 AM to 12 PM

• Thursday = 7 AM to 11 AM

• Saturday = 11 AM to 1 PM

What is the availability of Port 5 in that week?

A. 93%

B. 94.1%

C. 95.8%

D. 97%

Answer: C

14.Which layer of the OSI model provides the functional and procedural methods to transfer data between network entities?

A. Data link

B. Presentation

C. Session

D. Application

Answer: A

Explanation:

Reference: https://en.wikibooks.org/wiki/Network_Plus_Certification/Management/OSI_Model

15.What is an accurate statement about variable prefetching?

A. Many blocks that have recently been written to storage by the compute system are retrieved and placed in cache.

B. Many non-contiguous blocks that are not currently required can be retrieved from cache in advance.

C. Storage system prefetches data in multiples of the original I/O request size from the compute system.

D. Storage system prefetches many non-contiguous blocks of data, with varied sizes, from cache.

Answer: A

16.DRAG DROP

Match the Fibre Channel (FC) Layers with their respective functions.

FC Layers

FC-0	
FC-1	
FC-2	
FC-3	
FC-4	

FC Functions

Routing, flowcontrol	
Mapping interface	
Encode/Decode	
Common service	
Physical	

Answer:

FC Layers

FC-0
FC-1
FC-2
FC-3
FC-4

FC Functions

FC-2
FC-4
FC-1
FC-3
FC-0

Explanation:

Reference:

https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=10&ved=2ahUKEwjoirWjjKblAhXyx
oUKHbI_AU4QFjAJegQIAxAC&url=https%3A%2F%2Fwww.dell.com%2Fcommunity%2Fs%2Fvjauj5854
9%2Fattachments%2Fvjauj58549%2Fconnectrix%2F4498%2F1%2FSC_Distance_Reference_GA-SG-0
61-00%255B1%255D.pdf&usg=AOvVaw3SqLy5ETVbbmIBfl579cca

17.Which Dell EMC product is a hyper-scale storage infrastructure that provides universal accessibility
with support for object and HDFS?

A. ViPR Controller

B. PowerMax

C. Isilon

D. Elastic Cloud Storage

Answer: D

Explanation:

Reference:

https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=10&ved=2ahUKEwibs5yDjablAhV
CzBoKHbc6AhgQFjAJegQIAxAC&url=https%3A%2F%2Fwww.dell.com%2Fcommunity%2Fs%2Fvjauj58
549%2Fattachments%2Fvjauj58549%2Fsolutions-ch%2F516%2F1%2Fh13999-hadoop-ecs-data-servic

es- wp.pdf&usg=AOvVaw1jTgO2qHQLxapR5zvgXWpH

18.Which cloud deployment model allows provisioning of a cloud infrastructure only for use by a single organization having multiple consumers?

A. Public cloud

B. Multi-cloud

C. Hybrid cloud

D. Private cloud

Answer: D

Explanation:

Reference: https://www.paranet.com/blog/bid/128265/The-Four-Types-of-Cloud-Computing-Models

19.A company plans to deploy a new application in their environment. The new application requires 2 TB of storage space. During peak workloads, the application is expected to generate 4500 IOPS with a typical I/O size of 4 KB. The capacity of each available disk drive is 250 GB. In addition, the maximum number of IOPS a drive can perform at with a 70% utilization is 90 IOPS.

What is the minimum number of disk drives needed to meet the application's capacity and performance requirements for a RAID 0 configuration?

A. 8

B. 40

C. 50

D. 70

Answer: C

Explanation:

Reference: https://www.dell.com/community/Student-Discussions/E10-001-Exam-QUESTION-Query/td-p/7099780

20.Which technology decouples the OS, applications, and user state from a physical compute system?

A. Application virtualization

B. Storage virtualization

C. Thin client virtualization

D. Desktop virtualization

Answer: D

21.What is the goal of a business continuity solution?

A. Reduce the amount of investment in protecting an organization's business-related data.

B. Avoid a disaster in a data protection environment to control the loss of data.

C. Ensure information availability that is required to conduct vital business operations.

D. Eliminate security threats in a data protection environment for continuous access to data.

Answer: C

Explanation:

Reference:

https://www.oreilly.com/library/view/information-storage-and/9781118236963/9781118236963c09.xhtml

22.What is a function of the metadata service in an object-based storage device (OSD)?

A. Generates the file system namespace from the file contents.

B. Manages both physical and logical disks on which the user data is stored.

C. Manages the storage space for all remote clients.

D. Maintains the object IDs and file system namespace mappings.

Answer: D

23.DRAG DROP

Match the types of attack with their respective description.

Attack Types   Description

Denial-of-Service	Sends a spoofing email containing a link(s) to a fraudulent website
Phishing	Installs a rogue hypervisor that takes control of a compute system
Man-in-the-Middle	Prevents legitimate users from accessing resources or services
Hyperjacking	Eavesdrops on the network to capture credentials

Answer:

Attack Types   Description

Denial-of-Service	Phishing
Phishing	Hyperjacking
Man-in-the-Middle	Denial-of-Service
Hyperjacking	Man-in-the-Middle

24.What accurately describes virtual SAN (VSAN) trunking?

A. Reduces the utilization of ISLs by removing all the ISLs configured between the FC switches.

B. Increases the number of E_ports used for the ISLs to transfer multiple VSAN traffic.

C. Increases the complexity of managing the FC SAN with an increase in the number of ISLs.

D. Reduces the number of ISLs between switches that are configured with multiple VSANs.
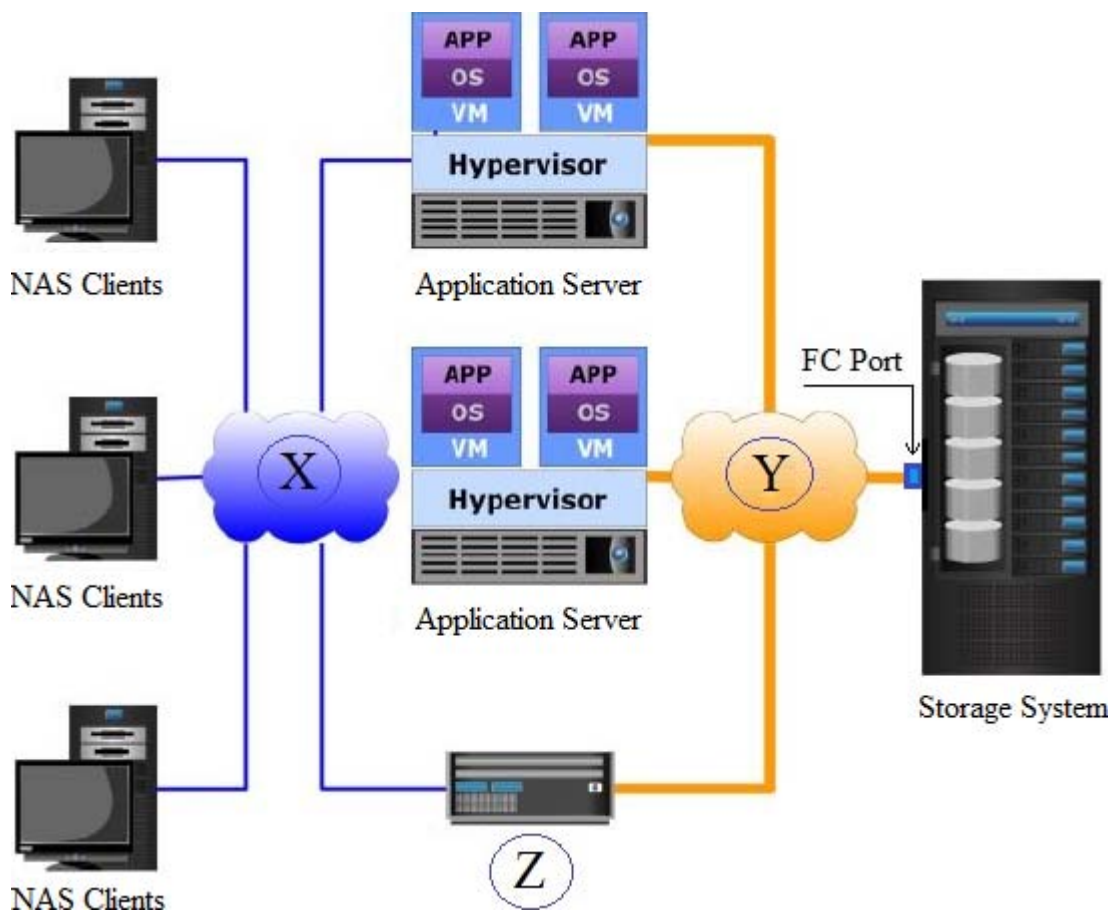
Answer: D

Explanation:

Reference: https://www.mycloudwiki.com/san/fc-san-virtualization/

25.What does an area ID represent in Fibre Channel (FC) addressing?

A. Group of switch ports

B. Switch within a group

C. Port within a group

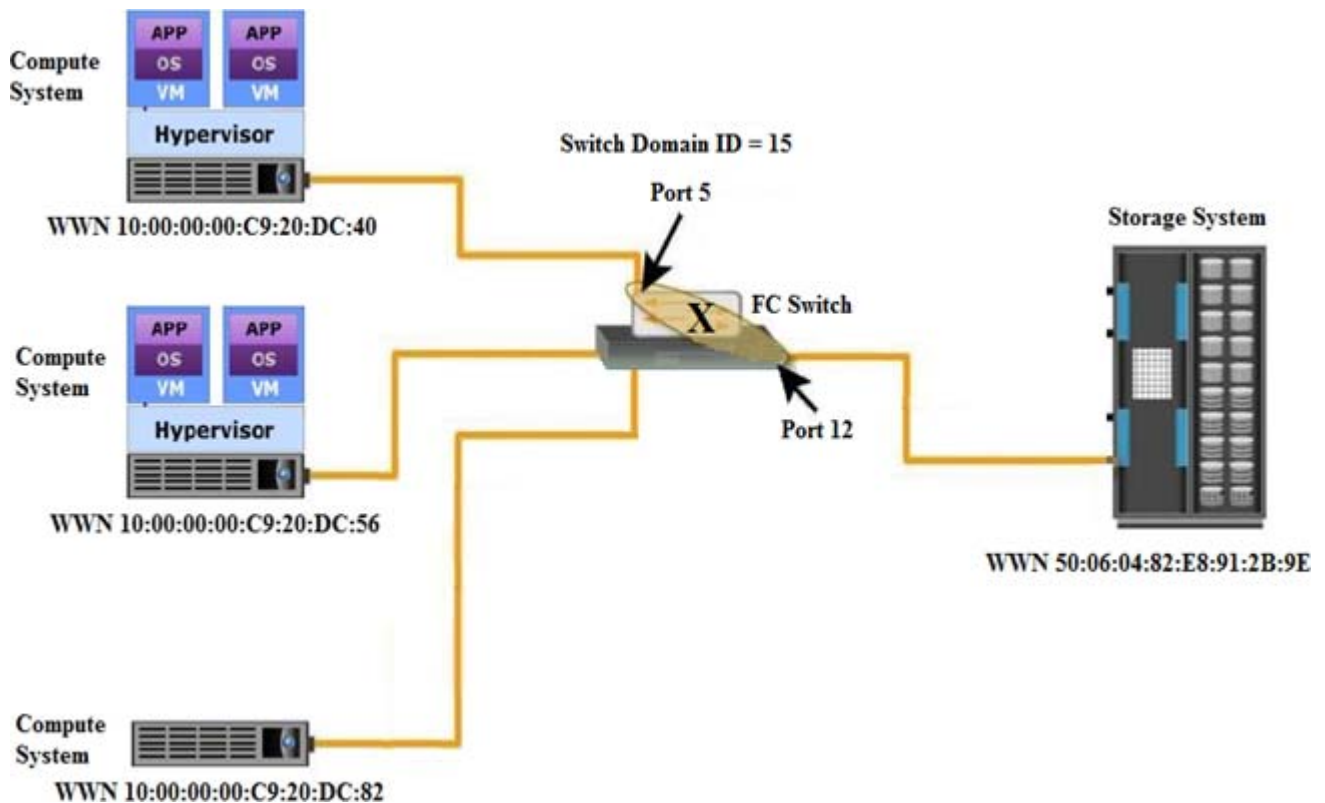D. Group of switches

Answer: A

26.Based on the exhibit,

What does the "X", "Y", and "Z" represent in a NAS environment?

A. X = FC SAN, Y = IP Network, and Z = NAS Gateway

B. X = IP Network, Y = FC SAN, and Z = NAS Gateway

C. X = FC SAN, Y = NAS Gateway, and Z= IP Network

D. X = IP Network, Y = NAS Gateway, and Z = FC SAN

Answer: B

27.Which type of zoning does the "X" represent?

A. Fabric zoning

B. WWN zoning

C. Mixed zoning

D. Port zoning

Answer: D

28.Which functionality does a Control layer provide in a software-defined networking architecture?

A. Defining the network behavior through various policies.

B. Making decisions on how the packets should be forwarded.

C. Establishing communications between the Infrastructure and Interface layers.

D. Forwarding data packets based on the requirements from the Application layer.

Answer: B

29.What accurately describes an Incident in a storage infrastructure?

A. Unknown root cause of one or more disruptions to service.

B. Any event that may lead to the disruption of a service.

C. Support request to help access an IT resource.

D. Any event that may create a change in correcting a known error.

Answer: B

30.What accurately describes the scale-out storage architecture?

A. Scales the capacity only within a single storage system.

B. Provides a fixed capacity ceiling that limits scalability beyond a storage system.

C. Provides the capability to maximize its capacity by adding nodes to the cluster.

D. Restricts scalability to the limits of the storage controllers.

Answer: C

Explanation:

Reference: https://whatis.techtarget.com/definition/scale-out-storage

31.Which technology combines NAND flash memory into a hard disk drive and is a single, integrated device incorporating both types of storage?

A. Solid-state drive

B. Dual drive

C. Fibre Channel drive

D. Solid-state hybrid drive

Answer: D

Explanation:

Reference: https://en.wikipedia.org/wiki/Hybrid_drive#Solid-state_hybrid_drive

32.Which Dell EMC product creates a server and IP-based SAN from direct-attached server storage to deliver flexible and scalable performance and capacity on demand?

A. PowerMax

B. VxFlex OS

C. ViPR Controller

D. XtremIO

Answer: B

Explanation:

Reference:

https://www.dellemc.com/mk-mk/collaterals/unauth/white-papers/products/ready-solutions/h17332_delle mc_vxflex_os_networking_best_practices.pdf

33.Which Internet of Things (IoT) component is responsible for the automation of operations by applying a force based on the dynamics of data?

A. Actuator

B. Switch

C. Sensor

D. Gateway

Answer: A

34.In an FCoE switch, which function is provided by the Fibre Channel Forwarder (FCF)?

A. Communication bridge between CEE and IP networks

B. Communication bridge between FC and FCIP networks

C. Communication bridge between CEE and FCIP networks

D. Communication bridge between CEE and FC networks

Answer: D

35.Which technology is used in the media and entertainment industry to enable content-based search activity and to create video subtitles using natural language processing?

A. Machine learning

B. Social networking

C. Cloud computing

D. Internet of Things

Answer: A

36.Why are organizations moving towards a modern data center implementation?

A. Develop modern applications in the public cloud without having the right skill set in-house.

B. Ability to be agile, operate in real time, and develop intelligent products.

C. Deploy only unified and converged IT resources to reduce the management complexity.

D. Reduce the cost of managing data center components by using a self-service catalog.

Answer: B

Explanation:

Reference:

https://www.actualtechmedia.com/wp-content/uploads/2018/05/Building-a-Modern-Data-Center-ebook.pd

f

37.What is a key objective to performing continuous replication?

A. Avoid performing data archiving.

B. Reduce the RPO to near-zero.

C. Reduce the deduplication ratio.

D. Avoid performing data backups.

Answer: B

38.What accurately describes a shared pool in virtual provisioning?

A. Should contain only homogeneous disk drive types.

B. Supports a single RAID protection level.

C. Consists of only a virtual storage volume.

D. Should contain only physical drives with different sizes.

Answer: B

39.Which data archiving component scans primary storage to find the files that meet the archiving policy?

A. Archive storage

B. Archive database server

C. Archive agent

D. Archive stub file

Answer: C

40.In the event of a disk failure, which RAID level enables quick data reconstruction?

A. RAID 3

B. RAID 5

C. RAID 6

D. RAID 10

Answer: D

41.What is an advantage of implementing file-level virtualization in a data center environment?

A. Provides non-disruptive file mobility across file servers or NAS devices.

B. Provides automated scaling of file systems across NAS servers.

C. Provides the capability to access files from any device.

D. Provides dynamic distribution of files across NAS clients.

Answer: A

42.DRAG DROP

To authenticate a user using OpenID authentication control, what are the correct sequence of steps?

User provides consent to profile sharing	STEP 1
User sends a login request using OpenID	STEP 2
Authentication response is redirected to the organization providing the services	STEP 3
Authentication request is redirected to an OpenID provider	STEP 4

Answer:

User provides consent to profile sharing	User sends a login request using OpenID
User sends a login request using OpenID	Authentication request is redirected to an OpenID provider
Authentication response is redirected to the organization providing the services	User provides consent to profile sharing
Authentication request is redirected to an OpenID provider	Authentication response is redirected to the organization providing the services

43.Which product delivers virtualized or hosted desktops and applications through a single platform?

A. VMware Horizon

B. Dell EMC VxRail Appliance

C. VMware NSX

D. Dell PowerEdge servers

Answer: A

Explanation:

Reference: https://www.dell.com/pk/business/p/vmware-horizon-7/pd

44.Which product provides an organization with the power to search and analyze vast amounts of data in one place and helps administrators to discover suspicious event trends?
A. Dell InTrust
B. Dell Change Auditor
C. VMware AppDefense
D. VMware AirWatch
Answer: A
Explanation:
Reference: https://cybersecurity-excellence-awards.com/candidates/dell-intrust/

45.A company's Finance department needs 200 GB of storage for their business applications. A LUN is created with 200 GB and RAID 1 is configured to support the applications.
If the cost of storage per GB is $2, what is the chargeback cost to the department for application storage?
A. $ 200
B. $ 400
C. $ 800
D. $ 1500
Answer: C

46.What is an example of a Performance Management task?
A. Selecting an appropriate RAID type for a storage pool.
B. Removing unused resources from a service and reassigning them to another.
C. Scanning applications and databases to identify vulnerabilities.
D. Planning and architecting data backup and replication solutions.
Answer: A

47.DRAG DROP
If the client requests authorization from the resource owner, what are the remaining sequence of steps to authenticate a user using OAuth control?

|	
Client requests an access token by authenticating with the authorization server and presents the authonzation grant	STEP 1
Client requests the protected resource from the resource server and authenticates by presenting the access token	STEP 2
Client receives an authorization grant used by the client to obtain an access token	STEP 3
Resource server validates the access token and, if valid, serves the request	STEP 4
Authorization server authenticates the client and validates the authorization grant	STEP 5

Answer:

Client requests an access token by authenticating with the authorization server and presents the authorization grant	Client receives an authorization grant used by the client to obtain an access token
Client requests the protected resource from the resource server and authenticates by presenting the access token	Client requests an access token by authenticating with the authorization server and presents the authorization grant
Client receives an authorization grant used by the client to obtain an access token	Authorization server authenticates the client and validates the authorization grant
Resource server validates the access token and, if valid, serves the request	Client requests the protected resource from the resource server and authenticates by presenting the access token
Authorization server authenticates the client and validates the authorization grant	Resource server validates the access token and, if valid, serves the request

Explanation:
Reference: https://tools.ietf.org/html/rfc6749

48.What does the "X" represent in the exhibit?
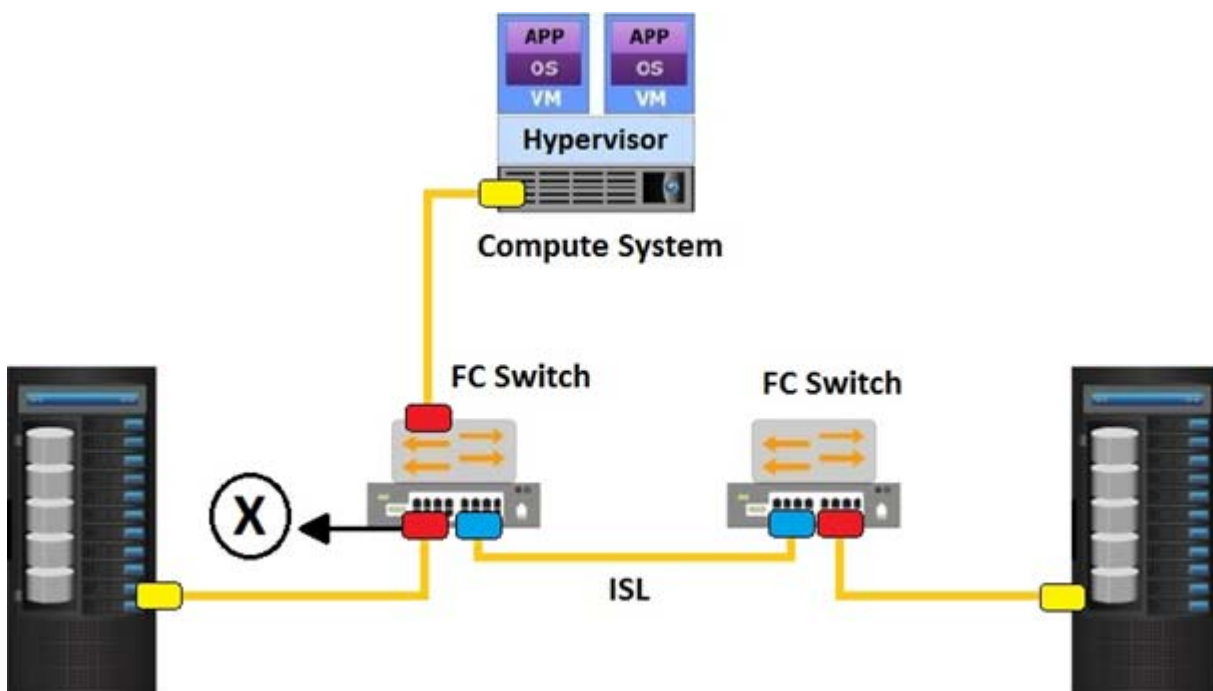
A. E_port
B. F_port
C. N_port
D. NL_port
Answer: B

49.A backup administrator has defined a backup policy. The policy requires full backups to be performed at 10 PM every Sunday and incremental backups performed at 10 PM the remaining days.
If files were accidentally deleted Wednesday morning, how many backup copies are required to restore

the files?

A. 2

B. 3

C. 4

D. 5

Answer: B

50.Which file system uses a MapReduce framework to run applications and a NameNode for managing the file system?

A. New Technology File System (NTFS)

B. Hadoop Distributed File System (HDFS)

C. Network File System (NFS)

D. Common Internet File System (CIFS)

Answer: B

Explanation:

Reference:

https://searchdatamanagement.techtarget.com/definition/Hadoop-Distributed-File-System-HDFS

51.When using a bridged iSCSI connection, which components facilitate communication between gateways?

A. Compute system with iSCSI ports and the storage system with Ethernet ports.

B. Compute system with iSCSI ports and the storage system with only FC ports.

C. Compute system with FC HBA ports and the storage system with only FC ports.

D. Compute system with FCoE ports and the storage system with iSCSI ports.

Answer: B

Explanation:

Reference: https://www.mycloudwiki.com/san/iscsi-interfaces/

52.What accurately describes hypervisor-based continuous data protection?

A. Virtual appliance is running on a hypervisor.

B. Journal is stored in a virtual machine.

C. Virtual appliance runs on a storage system.

D. Replica volumes are created in the hypervisor.

Answer: A

53.When implementing a full mesh topology in a Fibre Channel (FC) SAN environment, what is the effect when there is an increase in the number of switches?

A. Reduces the available node ports for ISL connectivity.

B. Increases the load on the ISLs due to traffic aggregation.

C. Increases the hop count for compute to storage traffic.

D. Reduces the available switch ports for node connectivity.

Answer: D

54.Based on the exhibit, what does the "X" represent in the FCIP tunnel configuration?
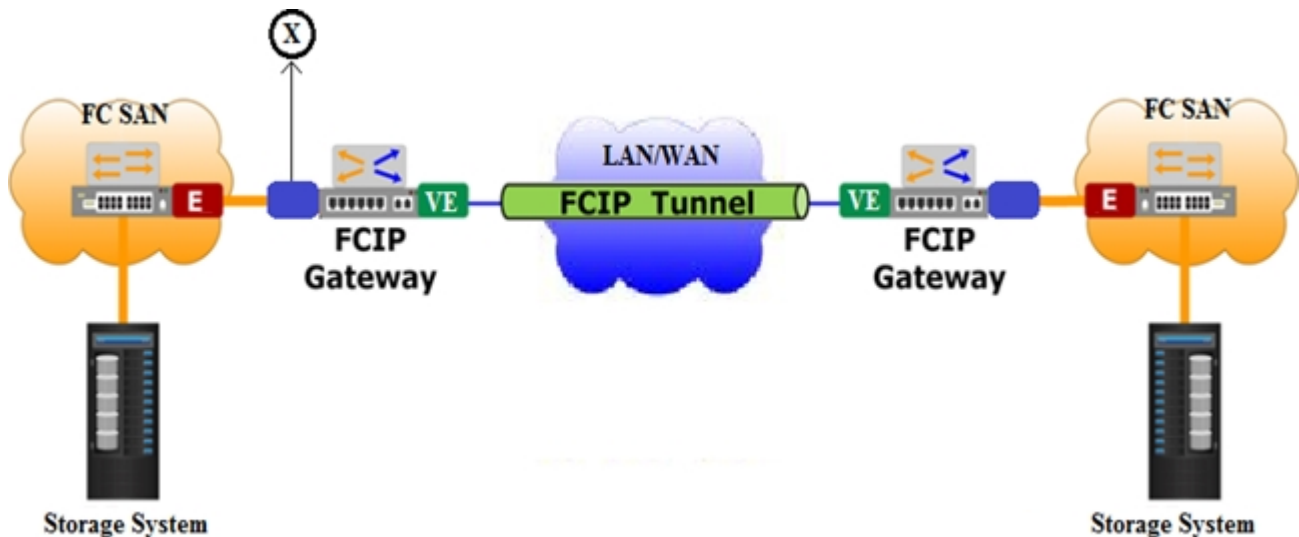
A. VX_port

B. EX_port

C. F_port

D. VE_port

Answer: A

55.What is an accurate statement about stretched VLANs?

A. Reduces network bandwidth requirements during VM migration across sites.

B. Requires a change in the VMs' IP addresses to match the addressing scheme at the other sites.

C. Enables automatic modification of VLAN addresses during VM migration across sites.

D. Supports migration of VMs across sites without the need to change their network configurations.

Answer: D

56.A consumer is interested in a service that provides multiple operating systems and programming frameworks for application development and deployment.

Which recommended cloud service model will meet these requirements?

A. Storage as a Service

B. Platform as a Service

C. Infrastructure as a Service

D. Software as a Service

Answer: B

Explanation:

Reference: https://en.wikipedia.org/wiki/Platform_as_a_service

57.Which Dell EMC product enables continuous protection for any PIT recovery and offers multi-site support?

A. RecoverPoint

B. Avamar

C. SourceOne

D. SRDF

Answer: A

Explanation:

Reference:

https://www.dellemc.com/resources/en-us/asset/data-sheets/products/storage-2/h2769-recoverpoint-ds.pdf

58.What accurately describes a software-defined architecture?

A. Supports only central management of private cloud resources using a pre-defined policy.

B. Provides a unified management platform for centralized monitoring and administration.

C. Uses only converged and hyperconverged infrastructures to offer services to companies.

D. Provides decentralized, manual, and policy-driven IT resource management.

Answer: B

Explanation:

Reference: https://www.hitachivantara.com/go/hitachi-iview-static/infrastructure.html

59.What is an advantage of deploying a purpose-built, disk-based backup appliance in a data center environment?

A. Eliminate the need for performing source-based deduplication.

B. Convert the capital expenditure to an operational expenditure.

C. Lower the recovery time objective of an organization.

D. Retain the fixed content for longer periods in the data center.

Answer: C

60.What is a key advantage of implementing FCIP?

A. Provides a disaster recovery solution by replicating data across data centers.

B. Enables migration of VMs across data centers by using existing FC networks.

C. Ensures lossless transmission of FC traffic across data centers over Ethernet.

D. Provides a dedicated network for transmission of storage traffic within a data center.

Answer: A

Explanation:

Reference:

https://www.cisco.com/c/dam/en/us/solutions/collateral/data-center-virtualization/ieee-802-1-data-center-bridging/white_paper_FCIAFCoE.pdf

61.DRAG DROP

What is the correct sequence of steps that need to be performed in storage system-based synchronous remote replication?

Write I/O is transmitted to the cache of the target storage	STEP 1
Write I/O is received from the production compute system into cache of the source and placed in the queue	STEP 2
Source storage system sends an acknowledgment back to the production compute system	STEP 3
Acknowledgment receipt is provided by the target storage back to the cache of the source	STEP 4

Answer:

Write I/O is transmitted to the cache of the target storage	Write I/O is received from the production compute system into cache of the source and placed in the queue
Write I/O is received from the production compute system into cache of the source and placed in the queue	Write I/O is transmitted to the cache of the target storage
Source storage system sends an acknowledgment back to the production compute system	Acknowledgment receipt is provided by the target storage back to the cache of the source
Acknowledgment receipt is provided by the target storage back to the cache of the source	Source storage system sends an acknowledgment back to the production compute system

62.If a company has experienced a passive attack on its IT infrastructure, how is the company's security impacted?

A. Access to services is denied.

B. Availability of data is affected.

C. Information privacy is compromised.

D. Data is altered by an unauthorized user.

Answer: C

63.A company is planning to perform a cloud-based backup. They want to send their data over a public network to a cloud backup device.

Which security control mechanism helps to protect the data from an attacker?

A. Multi-factor authentication

B. Demilitarized zone

C. Data shredding

D. Encryption

Answer: B

64.A company wants to implement a Fibre Channel (FC) SAN topology. The implementation will involve deploying four switches for localized compute and storage system connectivity. In addition, to meet their applications' performance requirements, they need a maximum of one ISL and redundant connections for

their compute to storage traffic.

Which topology should be recommended?

A. Full mesh topology

B. Bus topology

C. Partial mesh topology

D. Single-switch topology

Answer: A

Explanation:

Reference: https://www.mycloudwiki.com/san/fc-san-topologies/

65.Which technology uses the concept that real-life objects can independently share and process information with minimal human interaction?

A. Deep Learning

B. Cloud computing

C. Internet of Things

D. Artificial Intelligence

Answer: C

Explanation:

Reference: https://www.i-scoop.eu/internet-of-things-guide/

66.DRAG DROP

Match the virtual machine (VM) file with its description.

Virtual Machine File	**Description**
Configuration file	Keeps a log of the VM's activity and is used in troubleshooting
Virtual disk file	Stores information, such as VM name, BIOS information, guest OS type, memory size
Memory state file	Stores the VM settings and virtual disk of a VM
Snapshot file	Stores the contents of the VM's disk drive
Log file	Stores the memory contents of a VM in a suspended state

Answer:

Virtual Machine File	**Description**
Configuration file	Log file
Virtual disk file	Configuration file
Memory state file	Snapshot file
Snapshot file	Virtual disk file
Log file	Memory state file

Explanation:

Reference: https://www.vmware.com/support/ws55/doc/ws_learning_files_in_a_vm.html

67.Which Dell EMC product provides a software-defined platform that supports both block and file storage services?

A. XtremIO

B. PowerMax

C. FAST VP

D. VPLEX

Answer: D

68.Why is it important for organizations to implement a backup solution in a data center environment?

A. Improve the integrity of critical data

B. Ensure the availability of production data

C. Minimize the cost of data protection

D. Reduce redundant data in a production environment

Answer: B

69.DRAG DROP

What is the correct sequence of steps to authenticate an initiator and a target using one-way Challenge Handshake Authentication Protocol (CHAP) after the initiator performs a login to the target?

Initiator takes the shared secret and calculates the value using a one-way has function and returns a hash value to the target	STEP 1
Authentication is acknowledged and access is granted if the hash value matches	STEP 2
Target sends a CHAP challenge to the initiator	STEP 3
Target computes the expected hash value from the shared secret and compares the value received from the initiator	STEP 4

Answer:

Initiator takes the shared secret and calculates the value using a one-way has function and returns a hash value to the target	Target sends a CHAP challenge to the initiator
Authentication is acknowledged and access is granted if the hash value matches	Initiator takes the shared secret and calculates the value using a one-way has function and returns a hash value to the target
Target sends a CHAP challenge to the initiator	Target computes the expected hash value from the shared secret and compares the value received from the initiator
Target computes the expected hash value from the shared secret and compares the value received from the initiator	Authentication is acknowledged and access is granted if the hash value matches

Explanation:
Reference:
https://books.google.com.pk/books?id=tPLBUi8JSogC&pg=PA357&lpg=PA357&dq=initiator+takes+the+
shared+secret+and+calculates+the+value+using+a+one+way+has+function+and+return+a+hash+value
+to+the+target&source=bl&ots=HlHg70jCh3&sig=ACfU3U19dz4gIF9nvPh_uLbkoEojyrKlsg&hl=en&sa=X
&ved=2ahUKEwjMp_PPluTrAhWZA2MBHX0IBv8Q6AEwBnoECAoQAQ#v=onepage&q=Takes%20share
d%20secret% 20and%20calculates%20value%20using%20a%20oneway%20has&f=false (figure 14-10)

70.What is a characteristic of the Orchestration layer in a modern data center architecture?
A. Interacts directly with physical components across layers to begin provisioning tasks
B. Enables automatic updates of offerings listed in the service catalog with pre-defined workflows
C. Allows centralized, automated, and policy-driven management of heterogeneous resources
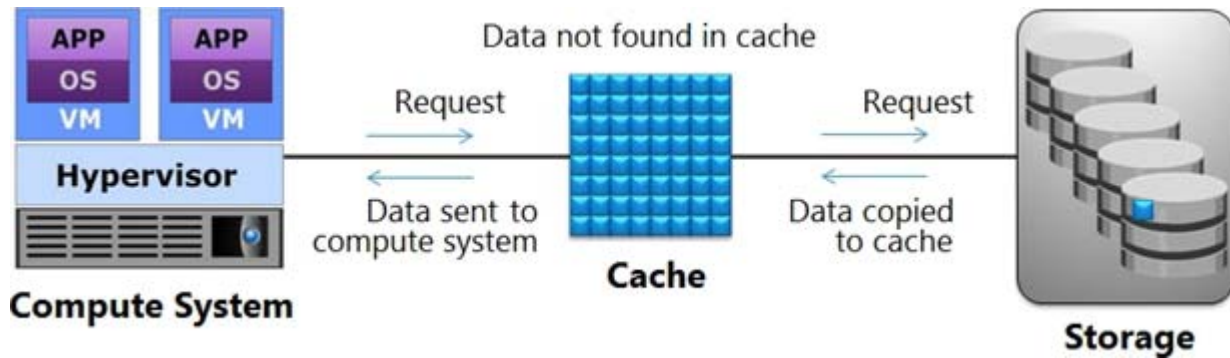D. Enables automated arrangement, coordination, and management of resource provisioning tasks
Answer: D
Explanation:
Reference: https://www.bmc.com/blogs/it-orchestration-vs-automation-whats-the-difference/

71.Which operation is represented in the exhibit?

A. Write-back Cache

B. Read Cache Miss

C. Write-through Cache

D. Read Cache Hit

Answer: B

Explanation:

Reference:

https://doc.opensuse.org/documentation/leap/virtualization/html/book-virt/cha-cachemodes.html

72.Which management function involves configuring LUN masking to restrict hosts from accessing a specific LUN in a data center environment?

A. Performance Management

B. Change Management

C. Security Management

D. Configuration Management

Answer: C

Explanation:

Reference: https://sites.google.com/site/testwikiforfirstciscolab/shd/14-securing-the-storage-infrastructure

73.What is an accurate statement about a virtual SAN (VSAN)?

A. Events causing traffic disruptions in one VSAN are propagated to other VSANs

B. Nodes that are present in different VSANs should not have the same FC address

C. Every VSAN created on a physical SAN must have the same fabric configuration

D. Each VSAN has its own fabric services, configuration, and set of FC addresses

Answer: D

Explanation:

Reference: https://www.mycloudwiki.com/san/fc-san-virtualization/

74.Which Converged Network Adapter (CNA) component encapsulates Fibre Channel (FC) frames into Ethernet frames?

A. PCIe Bus

B. Fibre Channel HBA

C. Fibre Channel Forwarder

D. FCoE ASIC

Answer: D

Explanation:

Reference: https://www.mycloudwiki.com/san/fcoe-san-overview/

75.Which parameters define information availability in an IT environment?

A. Capacity, Availability, and Performance

B. Reliability, Integrity, and Performance

C. Confidentiality, Integrity, and Availability

D. Reliability, Accessibility, and Timeliness

Answer: D

Explanation:

Reference: https://www.mycloudwiki.com/san/storage-infrastructure-management-overview/

76.Which file system uses only UNIX systems for a client-server application protocol and Remote Procedure Call (RPC) for file sharing?

A. New Technology File System (NTFS)

B. Common Internet File System (CIFS)

C. Hadoop Distributed File System (HDFS)

D. Network File System (NFS)

Answer: D

Explanation:

Reference: https://www.sciencedirect.com/topics/computer-science/network-file-system

77.Which state change notifications (SCNs) are issued by an iSNS server to the registered devices?

A. CPU events

B. Output events

C. Input events

D. Network events

Answer: D

Explanation:

The State Change Notification (SCN) service allows the iSNS Server to issue notifications about network events that affect the operational state of Storage Nodes. The iSNS client may register for notifications on behalf of its Storage Nodes for notification of events detected by the iSNS Server.

Reference: https://tools.ietf.org/html/rfc4171

78.Why is it important to deploy virtual machine (VM) storage migration in a data center environment?

A. Enable efficient management of storage capacity across storage systems

B. Improve the security of applications running inside VMs on the migrated storage system

C. Reduce a company's overall storage system capacity requirements

D. Enable VMs to continue functioning even if the source data is lost due to a failure

Answer: A

79.Which layer contains services that define network behavior through policies and resource requirements in a software-defined networking architecture?

A. Interface

B. Control

C. Application

D. Infrastructure

Answer: C

Explanation:

Reference:

https://www.sdxcentral.com/networking/sdn/definitions/what-the-definition-of-software-defined-networking-sdn/

80.DRAG DROP

In a recovery operation, what is the correct sequence of steps after the backup client sends a restore request to the backup server?

Storage node sends the restored metadata to the backup server	STEP 1
Data is read and then sent to the backup client	STEP 2
Backup server scans the backup catalog to identify the data to be restored and the client that will receive the data	STEP 3
Backup server updates the backup catalog	STEP 4
Backup server instructs the storage node to load the backup media in the backup device	STEP 5

Answer:

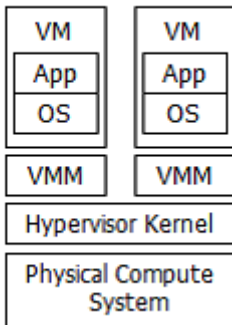|	
Storage node sends the restored metadata to the backup server	Backup server scans the backup catalog to identify the data to be restored and the client that will receive the data
Data is read and then sent to the backup client	Backup server instructs the storage node to load the backup media in the backup device
Backup server scans the backup catalog to identify the data to be restored and the client that will receive the data	Data is read and then sent to the backup client
Backup server updates the backup catalog	Storage node sends the restored metadata to the backup server
Backup server instructs the storage node to load the backup media in the backup device	Backup server updates the backup catalog

81.A company has virtualized their data center and wants to deploy a recovery-in-place backup approach. What is the advantage of this type of approach?

A. Acquires backup services through a self-service portal

B. Eliminates the backup impact on the application servers

C. Reduces the recovery point objective to restore the data to any previous point-in-time using backed up VMs

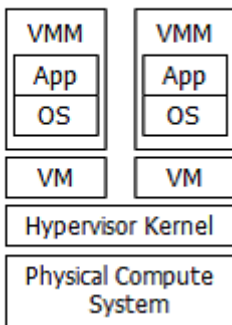D. Eliminates the need to transfer the image from the backup device to the primary storage before it is restarted

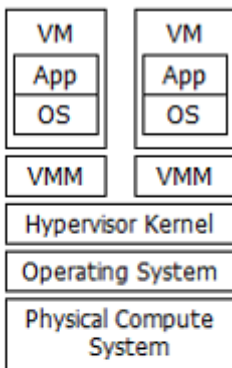**Answer:** D

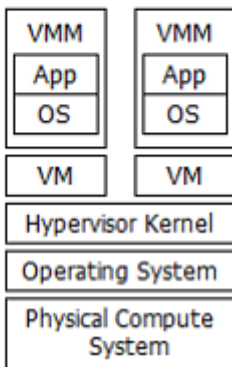82.Which exhibit represents a Type 2 hypervisor?

A. Exhibit 1:

VM	VM
App	App
OS	OS

VMM	VMM

Hypervisor Kernel

Physical Compute System

B. Exhibit 2:

VMM	VMM
App	App
OS	OS

VM	VM

Hypervisor Kernel

Physical Compute System

C. Exhibit 3:

VM	VM
App	App
OS	OS

VMM	VMM

Hypervisor Kernel

Operating System

Physical Compute System

D. Exhibit 4:

VMM	VMM
App	App
OS	OS

VM	VM

Hypervisor Kernel

Operating System

Physical Compute System

A. Option A

B. Option B

C. Option C

D. Option D

Answer: C

Explanation:

Reference:

https://searchservervirtualization.techtarget.com/definition/hosted-hypervisor-Type-2-hypervisor

83.Why is it important for organization to deploy intelligent storage systems in their data centers?

A. Reduce the complexity of managing information by creating silos of storage

B. Effectively migrate data from a data center to the cloud at no cost

C. Reduce the amount of data to be replicated, migrated, and backed up

D. Effectively store and manage information across data centers

Answer: D

Explanation:

Reference:

https://cdn.cnetcontent.com/syndication/mediaserverredirect/96f71ef8c9d8c8a1c4fb58878758c8fe/origin
al.pdf

84.Which compute system component enables dynamic extension of file system capacity and efficient storage management?

A. Logical Unit Number

B. Logical Unit Number Masking

C. Logical Volume Manager

D. Virtual Memory Manager

Answer: C

Explanation:

The evolution of LVMs enabled dynamic extension of file system capacity and efficient storage management. The LVM provides optimized storage access and simplifies storage resource management. It hides details about the physical disk and the location of data on the disk. It enables administrators to change the storage allocation even when the application is running.

Reference: https://www.mycloudwiki.com/san/server-components/

85.In a Fibre Channel (FC) protocol stack, what is the function of the FC-2 layer?

A. Provides transmission words, primitive signals, and link initialization

B. Provides FC addressing, structure, and organization of data

C. Provides standards for the physical interface, media, and transmission of bits

D. Provides application interfaces and maps several protocols to FC layers

Answer: B

Explanation:

Reference: https://www.mycloudwiki.com/san/fc-san-protocols/

86.An organization wants to use an application for their business communication. However, they do not have the skills or the time to deploy and manage an application in-house.

Which recommended cloud service model will meet their requirement?

A. Infrastructure as a Service

B. Database as a Service

C. Software as a Service

D. Platform as a Service

Answer: C

Explanation:

Reference:

https://www.zdnet.com/article/what-is-cloud-computing-everything-you-need-to-know-about-the- cloud/

87.What is a key benefit for performing local replication?

A. Reduce the time to perform data backups

B. Enable operational recovery of data if there is a data loss

C. Provide disaster recovery as a service offering

D. Enable data recovery in the event of a site-level disaster

Answer: B

Explanation:

Reference: https://www.mycloudwiki.com/san/storage-based-replication-overview/

88.Which functionality is provided by a process login in a Fibre Channel (FC) SAN environment?

A. Exchanges service relevant parameters between an N_port and an N_port

B. Establishes a connection to the fabric between an N_port and an F_port

C. Exchange ULP-related parameters between two N_ports

D. Establishes a session that occurs between two E_ports

Answer: C

Explanation:

Reference: http://www.redbooks.ibm.com/abstracts/tips0035.html

89.What happens when the size of a write I/O request exceeds the configured write aside size in a block-based storage system?

A. Cache is bypassed and I/O is written directly to storage

B. Write aside size is automatically reconfigured to the new write I/O size

C. Warning message to reduce the size of write I/O is displayed

D. Write data is lost and a re-write request is sent to the compute system

Answer: A

Explanation:

Reference:

https://www.dell.com/community/CLARiiON/Write-aside-size-for-LUNs-on-Clariion/td-p/7012288

90.What is an impact of a Denial-of-Service attack?

A. Privileges are intentionally misused to compromise data security

B. User's credentials are eavesdropped by the attacker

C. Computing resources are exhausted and made unavailable to users

D. User's accounts and data are compromised by malicious insiders

Answer: C

91.What is the objective of security control?

A. Minimize the attack surfaces and minimize the work factors

B. Maximize the attack surfaces and minimize the attack vector

C. Minimize the attack surfaces and maximize the work factors

D. Maximize the attack surfaces and maximize the attack vector

Answer: C

Explanation:

Reference: https://www.mycloudwiki.com/san/information-security-overview/

92.Which VMware product has pre-defined workflows that helps to automate and coordinate the service delivery and operational functions in a storage infrastructure?

A. NSX

B. vSphere ESXi

C. vRealize Orchestrator

D. Horizon

Answer: C

Explanation:

Reference: https://www.vmware.com/products/vrealize-orchestrator.html

93.What is a benefit of using an existing IP-based network infrastructure for storage connectivity?

A. Provide a dedicated network for storage

B. Provide the ability to extend the network over long distances

C. Ensure lossless transmission of FC traffic over Ethernet

D. Ensure security by allowing only localized data movement

Answer: B

Explanation:

Reference: https://www.mycloudwiki.com/san/ipsan-overview/

94.DRAG DROP

Match the functionality of a security goal with its description.

Functionality	Description
Authorization	User proves identity to the provider in order to access the stored data
Authentication	Recording all transactions for the purpose of assessing the effectiveness of the security controls
Accountability	Determining the privileges that a user has to access a particular service
Auditing	Users are responsible for the actions that are performed on the systems

Answer:

Functionality	Description
Authorization	Authentication
Authentication	Auditing
Accountability	Authorization
Auditing	Accountability

95.Which security mechanism ensures secure access to internal assets while enabling Internet-based access to selected resources?

A. Virtual local area network

B. Demilitarized zone

C. Virtual private network

D. Discovery domain

Answer: B

96.Which product enables employees to enroll their mobile devices in an enterprise environment and ensures secure access from the devices to the enterprise resources?

A. Dell PowerEdge

B. Dell InTrust

C. VMware AirWatch

D. VMware AppDefense

Answer: C

Explanation:

Reference:

https://docs.vmware.com/en/VMware-Workspace-ONE-UEM/1907/WS1_Express/GUID-AWT-INTROAW EX.html

97.In an SDS environment, which protocol supports the resource-oriented architecture for the development of scalable and lightweight web applications while adhering to a set of constraints?

A. FTP

B. NFS

C. CIFS

D. REST

Answer: D

Explanation:

Reference:

https://www.researchgate.net/publication/282962772_A_Software_Architecture_Enabling_the_Web_of_T hings

98.Which data deduplication method increases the probability of identifying duplicate data even when there is only a minor difference between two documents?

A. Variable-length segment

B. Single-instance

C. File-level

D. Object-level

Answer: A

Explanation:

Reference: https://sites.google.com/site/testwikiforfirstciscolab/shd/10-backup-and-archive

99.Which Dell EMC product is a software-defined storage platform that abstracts, pools, and automates a data center's physical storage infrastructure?

A. XtremIO

B. ViPR Controller

C. VxFlex OS

D. PowerMax

Answer: B

Explanation:

Reference: https://www.delltechnologies.com/en-us/software-downloads/index.htm#!freeware

100.Why is it important for organizations to implement a multi-site remote replication solution?

A. Ensure data protection is always available if there are any single site failures

B. Provide consistent near-zero RPO in the event of source and remote site failures

C. Perform synchronous replication with low network bandwidth

D. Recover data to any point-in-time in the event of a remote site failure

Answer: A

Explanation:

Reference: https://www.mycloudwiki.com/san/storage-based-replication-overview/

101.What is an accurate statement about Storage Class Memory (SCM)?
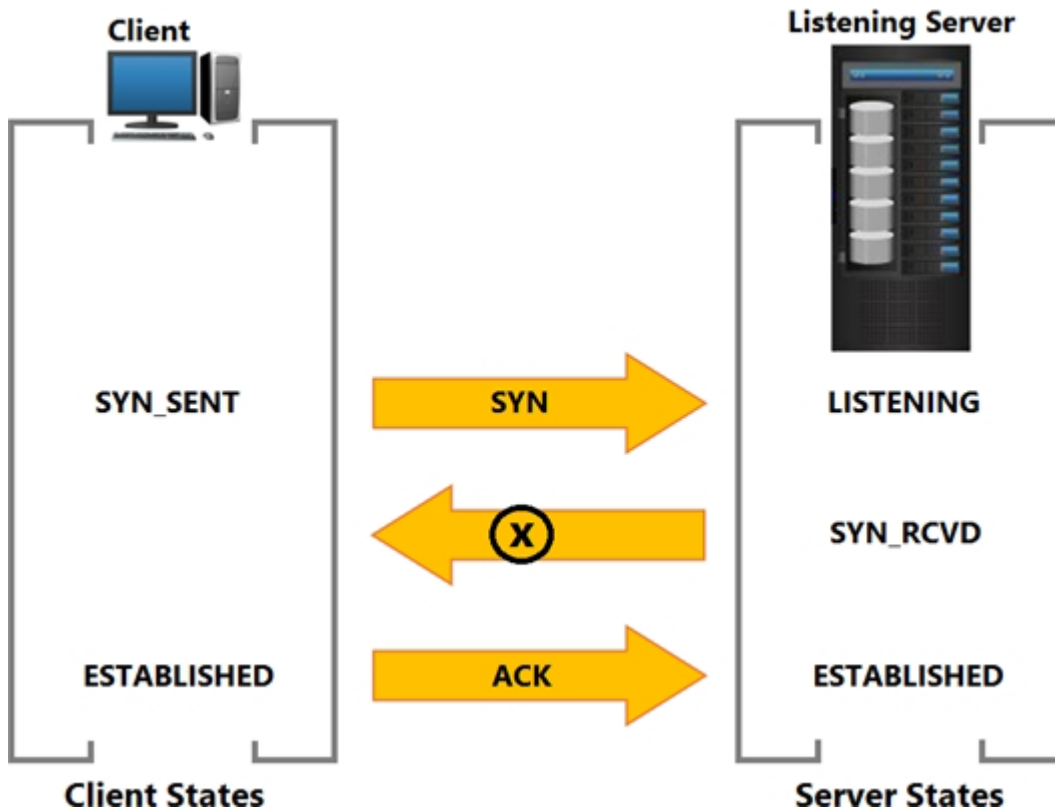
A. SCM is faster than DRAM

B. SCM read and write speeds are slower than flash

C. SCM can be addressed at the bit or word level

D. SCM has volatile memory

Answer: C

Explanation:

Reference: https://www.purestorage.com/resources/glossary/scm-storage-class-memory.html

102.Based on the exhibit, what does the "X" represent?

A. NACK SYN

B. ACK SYN

C. SYN NACK

D. SYN ACK

Answer: D

103.In a RAID 6 array with four disks, what is the total usable data storage capacity on the array if the disk size is 200 GB?

A. 200 GB

B. 400 GB

C. 600 GB

D. 800 GB

Answer: B

Explanation:

Reference:

https://docs.oracle.com/cd/E19871-01/820-1847-20/appendixf.html

http://www.raid-calculator.com/default.aspx

104.What accurately describes an object-based storage device (OSD)?

A. One object can be placed inside another object

B. Objects are created based on the name and location of the file

C. Objects exist at the same level in the address space
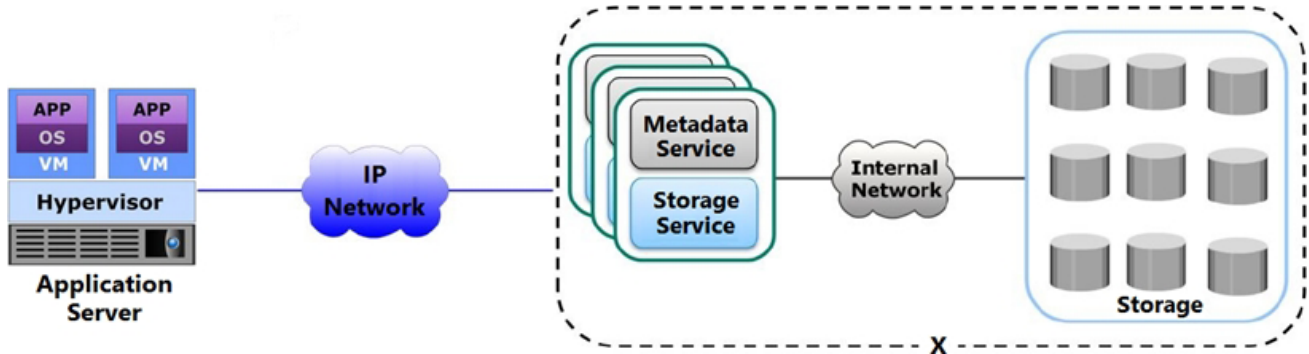
D. Numerous objects can be stored in a single namespace

Answer: C

Explanation:

Reference:

https://www.itproportal.com/2014/06/05/5-object-storage-requirements-your-business-needs-to- consider/

105.Based on the exhibit, which type of storage does the "X" represent?

A. File-based

B. Block-based

C. Object-based

D. Unified-based

Answer: C

Explanation:

Reference:

https://www.itproportal.com/2014/06/05/5-object-storage-requirements-your-business-needs-to- consider/

106.What does the "variability" characteristic of big data signify?

A. Importance in obtaining the right information from data at all possible contexts

B. Cost-effectiveness and business value obtained from massive volumes of data

C. Diversity in the formats and types of data generated from various sources

D. Importance in the quality of data gathered from a number of sources

Answer: A

Explanation:

Reference: https://tdwi.org/articles/2017/02/08/10-vs-of-big-data.aspx

107.What is determined by the amount of space configured for the journal in continuous data protection (CDP) replication?

A. Length of time required to recover the data

B. Length of time the recovery points can go back

C. Amount of data that can be restored to a specific point

D. Amount of space the source and replica volumes require

Answer: B

Explanation:

Reference: https://www.mycloudwiki.com/san/network-based-replication-cdp-overview/

108.Which Dell EMC product is a disk-based backup and recovery solution that provides inherent source-based deduplication?

A. Data Domain

B. SRDF

C. TimeFinder

D. Avamar

Answer: D

Explanation:

Reference:

https://www.dellemc.com/en-us/collaterals/unauth/technical-guides-support-information/products/networking-4/docu85224.pdf

109.DRAG DROP

Match the software-defined storage (SDS) attributes with their respective description.

SDS Attributes	Description
Unified management	Single large storage pool spanning across the underlying storage infrastructure
Storage abstraction	Dynamic composition of storage services based on application policies
Open and extensible	Single control point for the entire infrastructure
Automated storage provisioning	Integration of external interfaces and application through the use of APIs

Answer:

SDS Attributes	Description
Unified management	Storage abstraction
Storage abstraction	Automated storage provisioning
Open and extensible	Unified management
Automated storage provisioning	Open and extensible

110.What is an accurate statement about scale-out NAS?

A. Creates a different file system for each node in the cluster

B. Stripes data across nodes with mirror or parity protection

C. Supports only data replication for protecting data

D. Pools node resources in a cluster to work as multiple NAS devices

Answer: B

Explanation:

Reference: https://www.mycloudwiki.com/san/nas-architecture/

111.A Fibre Channel switch has eight ports and all ports must be operational from 8 AM to 8 PM, Monday through Friday.

However, a failure of Port 2 occurs on a particular week as follows:

Monday = 10 AM to 12 PM

Wednesday = 4 PM to 9 PM

Thursday = 4 PM to 7 PM

Friday = 3 PM to 6 PM

Saturday = 9 AM to 1 PM

What is the availability of Port 2 in that week?

A. 70%

B. 71.6%

C. 78.3%

D. 80%

Answer: D

112.A company plans to deploy a new application in their environment. The new application requires 5 TB of storage space. During peak workloads, the application is expected to generate 3000 IOPS with a typical I/O size of 3 KB. The capacity of each available disk drive is 750 GB. In addition, the maximum number of IOPS a drive can perform at with a 70% utilization is 90 IOPS.

What is the minimum number of disk drives needed to meet the application's capacity and performance requirements for a RAID 0 configuration?

A. 7

B. 34

C. 50

D. 40

Answer: B

Explanation:

Reference: http://www.raid-calculator.com/default.aspx

113.An Ethernet switch has eight ports and all ports must be operational for 24 hours; from Monday through Friday.

However, a failure of Port 5 occurs as follows:

Tuesday = 6 AM to 7 AM

Thursday = 5 PM to 9 PM

Friday = 8 AM to 9 AM
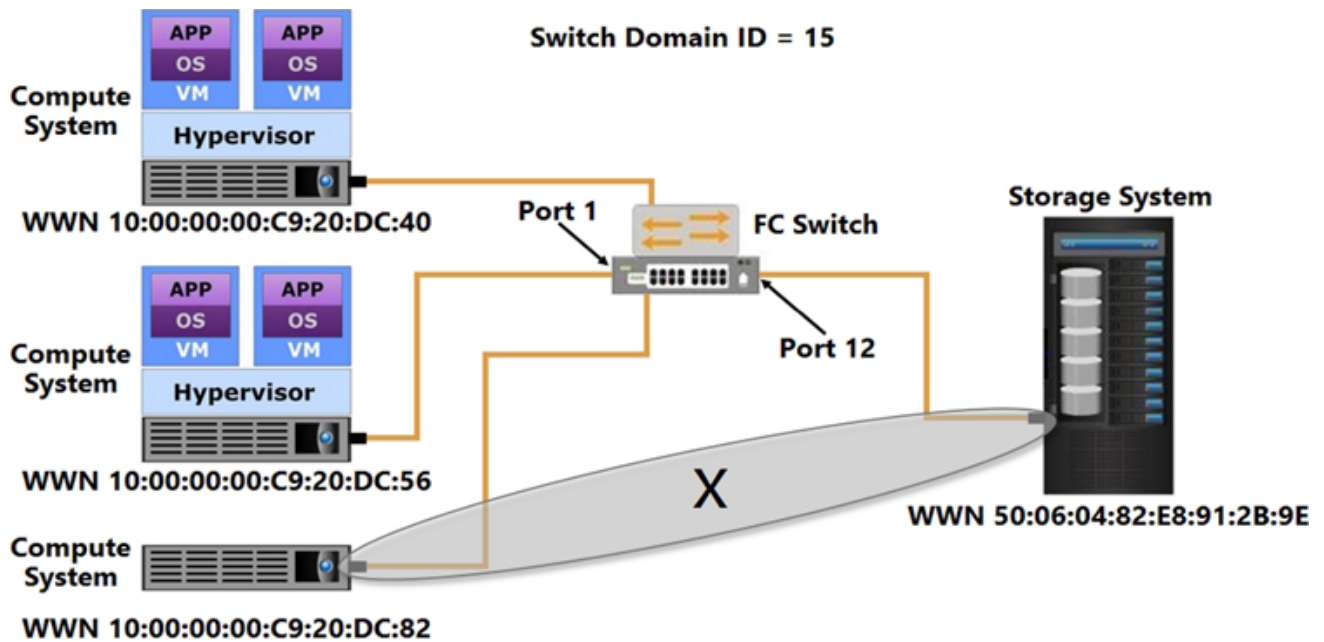
What is the MTBF of Port 5?

A. 30 hours

B. 32 hours

C. 40 hours

D. 38 hours

Answer: D

Explanation:

Reference: https://www.sqconline.com/mtbf-calculator-results

114.Which type of zoning does the "X" represent?

A. Fabric zoning

B. WWN zoning

C. Mixed zoning

D. Port zoning

Answer: B

115.What is the primary advantage of RAID 6 compared to RAID 5?

A. High available storage capacity

B. Low write penalty

C. High resiliency

D. Low rebuild time for data

Answer: C

116.What creates a large-scale SAN without storage systems and uses local storage of existing compute systems?

A. Compute-based SAN

B. Software-defined compute

C. Storage-based SAN

D. Software-defined network

Answer: A