H13-612

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Exam A

QUESTION 1
When configuring an N8500 clustered NAS engine, a user must specify the start and end physical IP addresses and the start and end virtual IP addresses,

A. TRUE
B. FALSE

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 2
Which of the following statements about N8500 troubleshooting is incorrect?

A. Check file system configurations, and then check storage device configurations.
B. Check network connection, and then check NAS device configurations.
C. Check device indicators, and then check system logs.
D. Check the status of storage unit disk enclosures, and then check the status of storage unit controller enclosures.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 3

In performance optimization of the N8500 clustered NAS storage systems, which of the following issues must the maintenance personnel be aware of concerning LUNs and controllers? (Select 3 answers)

A. Create only one LUN for each RAID group.
B. Set LUNs to forcible write back without mirroring.
C. Ensure that the owning controller and the working controller of a LUN are the same.
D. Disks that compose a file system are evenly distributed on controllers.

Correct Answer: ACD
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 4
Which of the following statements about the VCS services and resources provided by a clustered NAS system are correct? (Select 3 answers)

A. A dependency relationship between service groups can be defined.
B. A dependency relationship between resources can be defined,
C. Each resource corresponds to one agent.
D. Resource dependency relationships can be defined in a cyclic manner.

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 5
A customer has purchased an N8500 clustered NAS storage system configured with SATA and NL-5AS disks. In order to strike a balance between RAID reliability and read/write performance, which of the following configuration plans is recommended?

A. 11-disk RAID 5 and one hot spare disk
B. 11-disk RAID 6 and one hot spare disk
C. 4-diskRAID10
D. 9-disk RAID 5

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 6
The flexible space of the OceanStor 9000 is attributed to the scale-out architecture, scalability from 3 to 288 nodes, and support for global namespace.

A. TRUE
B. FALSE

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 7
When configuring file systems for the N8500 clustered NAS storage systems, you are advised to configure a file system size not larger than 32 TB and the size of small-file storage applications not larger than 16 TB to achieve satisfactory reliability and data recovery speed. (The small files here refer to the files with an average size of 1 MB.)

A. TRUE
B. FALSE

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 8
You can use the HUAWEI OceanStor Toolkit to perform the operations such as preventive maintenance, information collection, and upgrade for the HUAWEI OceanStor 9000.

A. TRUE
B. FALSE
Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 9
Which command is used to monitor the CPU usage in performance optimization of the N8500 clustered NAS storage systems?

A. sar -u 3 3
B. sar -r 3 3
C. sar -n DEV 2 2
D. sar -n CPU 2 2

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 10
The HUAWEI OceanStor Toolkit V100R001 is used for information collection. When importing a service package, you can find the service package in the datacollect folder under toolcases.

A. TRUE
B. FALSE

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 11
Which of the following storage units are used by an N8500 clustered NAS system? (Select 3 answers)

A. S2200T
B. S2600T
C. S5500T
D. S6800T

Correct Answer: BCD
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 12
Which of the following statements about CIFS service parameter settings on an OceanStor 9000 storage system is incorrect?

A. When the domain authentication mode is used, local users are not allowed to access CIFS shared directories.
B. When the user authentication mode is used, domain users are not allowed to access CIFS shared directories.
C. If you want users to access CIFS shared directories without entering user names or passwords, enable the guest mode.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 13
Which of the following are considered when planning the deployment of an N8000 clustered NAS storage system? (Select 3 answers)

A. Evenly distribute service loads among all cluster nodes. Employ port bonding to increase network bandwidths and enhance protection capability.

B. Plan the types of file systems for the storage system based on the performance and data integrity requirements of customers' environments.

C. Plan various RAID groups for the storage system to address the data integrity and read/write performance requirements of different application scenarios.

D. Select operating systems based on application requirements.

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 14
If an OceanStor 9000 storage system consists of four M nodes and uses 10GE for the back-end network, how many IP addresses must be planned for the backend storage network segment?

A. 8
B. 12
C. 6
D. 10

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 15
In an OceanStor 9000 storage system, hard quotas are set for user A to access the /dir directory. The recommended threshold is 3 GB, the soft threshold is 4 GB, the grace period is 10 days, and the hard threshold is 6 GB. If user A has written 3.1 GB data in the /dir directory, which of the following statements are correct? (Select 2 answers)

A. The system reports an alarm indicating that the threshold is exceeded,
B. User A can continue to write data in the /dir directory.
C. User A can continue to write data in the /dir directory for another 10 days.
D. User A cannot continue to write data in the /dir directory.

Correct Answer: AB

Section: (none)
Explanation

Explanation/Reference:
Explanation:
QUESTION 16
Scale-out is a horizontal expansion architecture that addresses the needs and challenges caused by rapid data growth and complex data changes. The scale-out architecture features distributed processing, online expansion, data sharing, and clustering.

A. TRUE
B. FALSE

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 17
Multiple users access a multimedia VOD application at different bit rates. Which prefetch policy should be selected for the LUNs on the background N8500 clustered NAS storage system?

A. No prefetch
B. Constant prefetch
C. Intelligent prefetch
D. Variable prefetch

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 18
You can check VCS cluster logs by viewing the Engine_A.log file in the /var/VRTSvcs/log directory on an N8500 storage system.

A. TRUE
B. FALSE

Correct Answer: A
Section: (none)
Explanation
Explanation/Reference:
Explanation:

QUESTION 19
Which command is used to check whether a file system is mounted using the support account for N8500 V200R001?

A. cfsmntadm display
B. cfsmountadm display
C. cfsmntadm show
D. cfsmountadm show

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 20
In an N8500 clustered NAS system, the engine enclosures exchange cluster control information over a Fibre Channel heartbeat network.

A. TRUE
B. FALSE

Correct Answer: B

Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 21
In an N8500 system, if an engine node is faulty and the other components are in the normal state, the consequences do not include which of the following?
A. The N8500 cannot be managed.
B. LUNs on the storage units become unavailable.
C. Service performance deteriorates.
D. The NFS file sharing service becomes abnormal.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 22
Which are the possible causes for file read/write performance decrease? (Select 3 answers)

A. A slow disk or bad sector exists,
B. The Fibre Channel port has a high bit error rate.
C. The LUN has been set to write back.
D. The prefetch policy does not apply to service data changes.

Correct Answer: ABD
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 23
If the service disk in slot 35 on a C node of the OceanStor 9000 is faulty, you are supposed to find this disk at the front panel of the C node and then replace it.

A. TRUE

B. FALSE

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 24
Which of the following statements about the configuration of the file system snapshot feature provided by an N8500 clustered NAS system are incorrect? (Select 2 answers)

A. A file system snapshot can be created manually or automatically.
B. The maximum number of snapshots created for a file system is 256. C. A snapshot that is automatically created is in online state by default,
D. A snapshot can be automatically removed by the system.

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 25
In an N8500 clustered NAS system, at most how many 1 Gbit/s service ports can a single clustered NAS engine node provide?

A. 4
B. 8
C. 12
D. 16

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 26
Which of the following statements about the CIFS share are correct? (Select 2 answers)

A. CIFS normal share enables a directory to be accessed by all users.
B. CIFS homedir share enables a directory to be accessed by all users.
C. In Normal mode, a client can access a share through only one VIP.
D. Compared with the Normal mode, the Cluster mode provides higher data reliability but lower performance.

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 27
An N8500 clustered NAS engine can be connected to a SAN storage array over a Fibre Channel network and a SAS network concurrently.

A. TRUE
B. FALSE

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 28
Which of the following statements about the N8500 configuration prerequisites are correct? (Select 3 answers)

A. The heartbeat network ports of the clustered NAS engine are correctly connected to the heartbeat network.
B. The service network ports of the clustered NAS engine are not connected to the customer's service network before they are configured.
C. The clustered NAS engine is correctly powered on and the statuses of the indicators are normal.
D. Hardware installation and cable connection of the clustered NAS engine are complete.

Correct Answer: ACD

Explanation/Reference:
Explanation:

QUESTION 29
In performance optimization of the N8500 clustered NAS storage systems, the top command is runand the following output is displayed:

top - 01: 06: 48 up 1: 22, 1 user, load average: 0.06, 0.60, 0.48 Tasks: 29 total, 1 running, 28 sleeping, 0 stopped, 0 zombie Cpu(s): 0.3% us, 1.0% sy, 0.0% ni, 98.7% id, 0.0% wa, 0.0% hi, 0.0% si Mem: 191272k total, 173656k used, 17616k free, 22052k buffers Swap: 192772k total, 0k used, 192772k free, 123988k cached

Which of the following statements is incorrect?

A. up 1:22 indicates the current system time.
B. load average indicates the average length of task queues.
C. 0.3% us in Cpu(s) indicates the CPU occupation percentage of user space.
D. 17616k free in Mem indicates the total capacity of free memory.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 30
Which of the following statements about the file system used by the OceanStor 9000 is incorrect?

https://vceplus.com/

A. The file system provides a unified file system namespace.
B. The name of the namespace provided by the file system is the same as the system name.

C. The root directory of the namespace does not provide sharing or access.

D. Added capacity can be directly obtained from the storage pool.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 31

Compared with traditional RAID algorithms, the Erasure Code redundancy technology provides higher reliability and more flexible redundancy policies. Which of the following statements about Erasure Code is incorrect?

A. Data to be written is divided into multiple data blocks of the same size.

B. The Erasure Code algorithm calculates N parity blocks for every M consecutive data blocks. (The value of N is smaller than that of M.)

C. M+N data blocks are concurrently stored to different nodes.

D. In Erasure Code storage mode, a concurrent failure of N-I disks is tolerated.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 32

Which of the following disks are used by an N8500 clustered NAS engine as system disks?

A. Fibre Channel disks

B. SAS disks

C. SATA disks

D. SSDs

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 33
Based on full interconnection of data channels and communication channels, a clustered NAS system employs cluster volume management to manage global storage space. Specifically, any nodes in a cluster can access the same storage space using the same volume device name, ensuring access consistency.

A. TRUE
B. FALSE

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 34
The stripe file system data of an N8500 clustered NAS storage system is stored on multiple data disks in the same way as data in RAID 0. The stripe file system provides high read/write performance but low security.

A. TRUE
B. FALSE

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 35
Which of the following statements about the OceanStor Toolkit installation of the OceanStor 9000 is incorrect?

A. The OceanStor Toolkit can be installed on any storage node.
B. The PC used for installation is connected to a storage node through port eth0.
C. The IP address of the network port used to upload the OceanStor Toolkit must be configured on the same network segment as the management network.
D. After the OceanStor Toolkit is successfully installed, enter https://xx.xx.xx.xx:8088/tools in the Internet Explorer address box to go to the login page.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 36
Which of the following statements about the high availability daemon (HAD) function of an N8500 clustered NAS system are correct? (Select 3 answers)

A. Each host in the N8500 cluster runs a HAD process.
B. The hastart command can be executed to enable the had and hashadow services to automatically start.
C. HAD is used to monitor and manage the statuses of all services on the clustered NAS system.
D. The clustered system uses hashadow to monitor the HAD process. If HAD becomes abnormal, hashadow can restart HAD.

Correct Answer: ABD
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 37
Which of the following statements about CIFS are correct? (Select 2 answers)

A. CIFS transmits data based on TCP.
B. CIFS transmits data based on UDP.
C. CIFS is a file sharing protocol used on Linux.
D. CIFS is a file sharing protocol used on Windows.

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 38
If an engine node of an N8500 storage system cannot be started, which of the following measures is incorrect?

A. Replace the CPUs.

B. Replace the memory.

C. Replace the Fibre Channel interface cards.

D. Replace the main board.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 39
Compared with a relational database, which of the following are advantages of NoSQL? (Select 3 answers)

A. Flexible scalability

B. High availability

C. High cost-effectiveness

D. Feature richness

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 40
Which of the following statements about different service applications' storage performance and capacity requirements are correct?

A. Compared with an email application, an enterprise OLTP/OLAP database requires higher storage performance.

B. Compared with picture and video applications, a large-sized relational database requires a larger storage capacity.

C. Compared with the content delivery network application, the backup and archive services require higher storage performance.

D. Compared with a real-time online service system, scientific computing requires higher storage performance.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 41
Which of the following must be considered before you optimize the performance of an N8500 clustered NAS storage system? (Select 3 answers)

A. Evaluate the feasibility of the performance target based on your experience.

B. Use a fixed testing environment for performance optimization.

C. Determine the testing mode based on services to ensure the comparability of the test results.

D. Performance optimization has no impact on ongoing services. You do not need to worry about the pressure on services.

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 42
Which of the following statements about the file system mirroring feature provided by an N8500 clustered NAS system are incorrect? (Select 2 answers)

A. The N8500 supports a maximum of two mirrors for a single file system.

B. Resources of different storage pools can be selected to implement file system mirroring.

C. File system mirroring allows users to select three mirroring layout types.

D. In the same service scenario, mirrored-stripe and striped-mirror provide the same data reliability and performance.
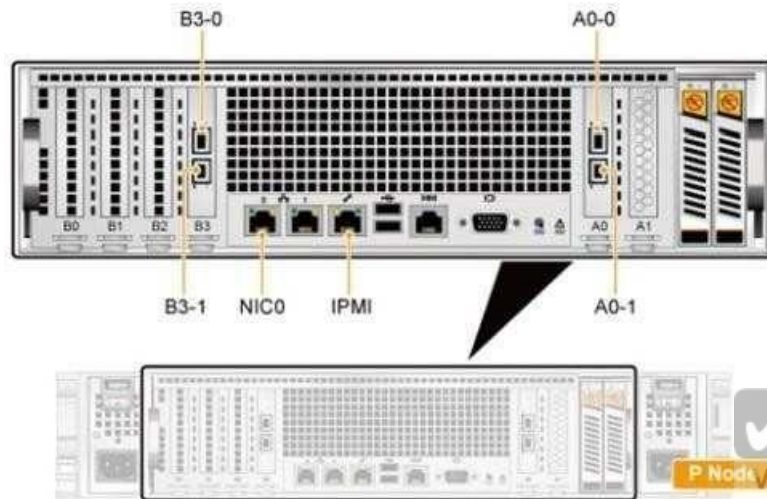
Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 43
An OceanStor 9000 storage system uses GE for the front-end network and 10GE for the back- end network. Which of the following statements is incorrect about the ports on the P node as shown in the figure?

A. Ports AO-1 and AO-1 are connected to the 10GE switch. A back-end network IP address must be planned for each of the two ports.

B. Ports B3-0 and B3-1 are connected to the front-end service switch. A front-end network IP address must be planned for each of the two ports.

C. NIC 0 is connected to the management and maintenance switch. You do not need to assign an IP address for this port.

D. Port IPMI is connected to the management and maintenance switch. You do not need to assign an IP address for this port.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 44
Which of the following does not demonstrate the characteristics of big data?

A. Analysis of the popularity of China railway lines during the Spring Festival travel rush in

B. Analysis and forecast of global influenza with the use of search engines

C. Analysis of final exam scores of a university student

D. Data recording and analysis of a Chinese moon landing project

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 45
Which of the following statements about the software features of the OceanStor 9000 are correct? (Select 2 answers)

A. The maximum supported file system capacity is 40 PB.

B. The maximum supported data recovery speed is 1 TB/hour.

C. Each node uses the cache on the node exclusively.

D. Thin provisioning and thick provisioning are both supported.

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 46
Which of the following are the mandatory hardware components of an N8500 clustered NASsystem? (Select 2 answers)

A. Fibre Channel switch

B. T series storage array

C. NAS engine

D. Ethernet switch

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 47
Which are the key parameters used to evaluate the performance of an N8500 clustered NAS storage system? (Select 3 answers)

A. Number of network ports per engine node
B. Number and model of CPUs and memory capacity per engine node
C. Communication links between the NAS engine and the storage units
D. NAS engine operating system and version

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 48
The CAP principle that a distributed database complies with involves three elements:
consistency, availability, and partition tolerance. Which of the following statements about the CAP principle that a distributed database complies with are correct?
(Select 3 answers)

A. In a distributed database, a maximum of two elements can be implemented concurrently.
B. Partition tolerance is the basic requirement for a distributed database.
C. For most distributed databases oriented to web applications, the CPA design typically sacrifices consistency for high availability.
D. Partition tolerance is the basic requirement for a traditional relational database.

Correct Answer: ABC
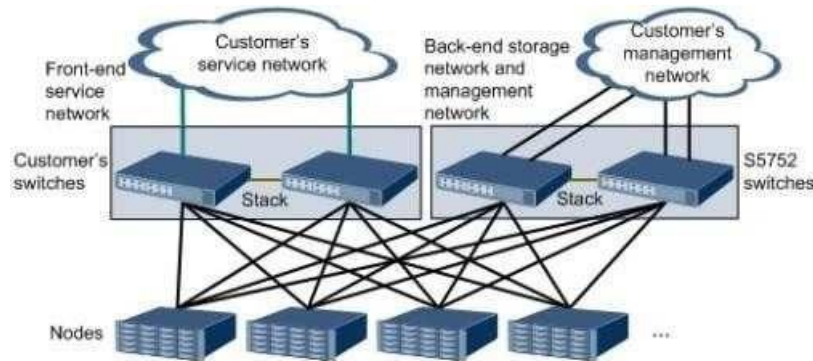**Section: (none)**
Explanation

Explanation/Reference:
Explanation:

QUESTION 49
The OceanStor 9000 in the figure adopts GE networking and enables the InfoLink function for front-end services. How many IP address should be planned for the front-end service network?

A. 8

B. 10

C. 24

D. 26

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 50
The 10GE networking of an OceanStor 9000 uses a CE6850-48S4Q-EI switch. Which of the following statements about the switch are correct? (Select 2 answers)

A. The switch supports a maximum of 32 10GE 5FP+ Ethernet optical ports.

B. The switch supports four 40GE QSFP+ Ethernet optical ports.

C. The 10GE ports on the switch can be used for interconnection between downstream storage nodes or connection between storage nodes and the upstream service network.

D. The 40GE ports are used for switch stacking.

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:

Explanation: