

**H13-511**

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**Exam A****QUESTION 1**

An N8500 clustered NAS engine does not need to be equipped with power modules.

- A. TRUE
- B. FALSE

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 2**

An application requires high write performance and moderate reliability. To ensure that the N8500 clustered NAS storage system delivers the optimal write performance, set the LUN write policy to write back with mirroring.



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- A. TRUE
- B. FALSE

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 3**

Which of the following statements about the file pool and file pool policies of the OceanStor 9000 is incorrect?

- A. One file can belong to different file pools,
- B. File pool policies come with priorities. For files, only the file pool policy of the highest priority takes effect.
- C. The characteristics of a file pool are in an AND relationship.
- D. File pool policies are available only after the InfoTier license is activated.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 4

The networking of an HUAWEI OceanStor 9000 big data storage system includes which of the following? (Select 3 answers)

- A. Front-end service network
- B. Back-end storage network
- C. Internal communication network
- D. IPMI management network



**Correct Answer:** ABD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 5

The OceanStor 9000 WushanFS supports online node expansion. The storage capacity and computing capability are increased linearly, providing linearly increasing throughput and concurrency capabilities for users.

- A. TRUE
- B. FALSE

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 6**

It is recommended that the OceanStor 9000 use 10GE for both the front-end and back-end networks.

- A. TRUE
- B. FALSE

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 7**

In an N8500 clustered NAS system, the Veritas Volume Manager (VxVM) is located between the operating system and the data management system. The VxVM accesses disks using the interface provided by the operating system, makes the physical storage devices connected to hosts invisible, and provides a logical device layer for the data management system. The logical devices on this layer are called VxVM volumes.

- A. TRUE
- B. FALSE

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

The OceanStor 9000 can be installed in a Huawei-supplied cabinet only,

- A. TRUE
- B. FALSE

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

Which of the following statements about reading and writing an N8500 clustered NAS file system mirror and the best practices are correct? (Select 3 answers)

- A. Equivalent to RAID 01, Mirrored-stripe is to perform file system mirroring based on striping, A mirror provides data redundancy, and data is distributed across multiple disks.
- B. Mirror is equivalent to RAID 1, Data that needs to be written to a file system is simultaneously written to two mirrors and data is read from the two mirrors based on a round-robin policy (I/Os are evenly distributed to paths in a round-robin manner).
- C. Regarding the use of Mirror, it is recommended that the space of the source file system be provided by one storage array and that of the mirrored file system be provided by another. Mirror is recommended for scenarios that require high reliability.
- D. Mirrored-stripe is suitable for scenarios that require high reliability. The performance of Mirrored-stripe is the same as that of Mirror.

**Correct Answer:** ABC

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 10**

The figure shows the rear view of a P node in an OceanStor 9000. When its front-end is a 10GE network and its back-end is an IB network, NICs 0 on all nodes in the basic cabinet must be connected to the GE switches in the same cabinet.



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- A. TRUE
- B. FALSE

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 11**

Which data protection levels can be configured for an OceanStor 9000 storage system that consists of 10 nodes? (Select 2 answers)

- A. RAID1
- B. 6+3C. 6+4
- D. 6+5

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### **QUESTION 12**

When you are using the OceanStor Toolkit to deploy an OceanStor 9000 storage system, you must configure the front-end network mask, front-end network gateway, back-end network mask, back-end network gateway, management network mask, and management network gateway in the configuration file of the OceanStor Toolkit.

- A. TRUE
- B. FALSE

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 13**

An N8500 clustered NAS system has many services that help implement system functions, such as NFS and CIFS basic service groups. Which of the following is not a resource agent of the NFS service group?

- A. NIC
- B. Hashadow
- C. Disk
- D. IP

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 14

When an engine node of an N8500 clustered NAS storage system needs to connect to multiple ports on a controller of a storage unit, ensure that ports on different interface modules are used.

- A. TRUE
- B. FALSE

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### QUESTION 15

Which of the following statements about the file sharing protocols of the OceanStor 9000 are correct? (Select 3 answers)

- A. The OceanStor 9000 supports NFS and CIFS file sharing protocols.
- B. The OceanStor 9000 is compatible with various operating systems, allowing file resource sharing in a heterogeneous network environment.
- C. The sharing is by files.
- D. The sharing service supports automatic load balancing.

**Correct Answer:** ABD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 16**

You are required to check the installation environment before installing software on an OceanStor 9000 storage system. Which of the following conditions does not meet these requirements?

- A. The OceanStor 9000 consists of three P nodes and one C node.
- B. The storage nodes run SU5E Linux Enterprise Server 11 (x86\_64) SP1.
- C. The PC used for installation runs Windows 7.
- D. The PC used for installation runs Internet Explorer 9.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

Which of the following statements about the VxVM implementation mechanism employed by an N8500 are correct? (Select 2 answers)

- A. The capacity of a physical disk and that of a virtual disk are the same.
- B. A plex consists of virtual disks.
- C. A volume consists of subdisks.
- D. The capacity of a volume can be larger than the maximum capacity of a single physical disk.

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

Which of the following statements about the InfoTier feature of the OceanStor 9000 are correct? (Select 2 answers)

- A. The InfoTier license must be purchased.
- B. This feature can be used only when the storage system has different types of nodes.
- C. This feature can be used when the storage system has different types of disks.
- D. After this feature is enabled, you can set the high and low watermarks for a specified node pool.



**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 19

If the file system sharing services are interrupted on an N8500 storage system, which of the following information must be collected for troubleshooting? (Select 3 answers)

- A. Alarm information
- B. Operations performed after the fault occurred
- C. Clustered NAS configuration information
- D. Number of storage unit disk enclosures

**Correct Answer:** ABC

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### QUESTION 20

In an OceanStor 9000 storage system, the management IP address is 100.16.100.3, the front-end service network segment is from 192.168.100.1 to 192.168.100.20, the dir001 directory is shared, and the share path is /dir001. Which of the following statements about the share access are correct? (Select 2 answers)



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- A. The clients that attempt to access the share must interwork with IP address 100.16.100.3.
- B. The clients that attempt to access the share must interwork with any IP address in the network segment from 192.168.100.1 to 192.168.100.20.
- C. If the client runs the 5U5E operating system, use the mount -t nfs ipaddress:\dir001 \mnt command to mount the share.

D. If the client runs the SUSE operating system, use the mount -t nfs ipaddress:/dir001 /mnt command to mount the share.

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 21

When using the OceanStor Toolkit to deploy an OceanStor 9000 storage system, the IP addresses specified in IP address segment in the Configure DHCP area can only be use for the deployment. After the deployment is successful, the IP addresses of each node are changed to those as planned in the configuration file.

A. TRUE

B. FALSE

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### QUESTION 22

In an OceanStor 9000 storage system, the calculate quota is set to 50 GB for user A to access the /dir directory. When the amount of data that user A writes exceeds 50 GB in the /dir directory, the system allows user A to continue to write data in the /dir directory.

A. TRUE

B. FALSE

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 23

Which of the following interface cards can be installed in the PCIe expansion slot on the P node of the OceanStor 9000? (Select 3 answers)

- A. 2-port TOE 10GE network adapter
- B. 2-port IB network adapter
- C. 2-port GE network adapter
- D. 2-port 8 Gbit/s Fibre Channel interface card

**Correct Answer:** ABC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 24

Which of the following statements about the 10 Gigabit Ethernet (10GE) is incorrect?

- A. 10GE, an Ethernet transmission standard, became IEEE Std 802.3ae-2002 in 2002.
- B. 10GE enables an Ethernet to transmit data at a rate of 10 Gbit/s, 10 times the rate of GE.
- C. 10GE defines full-duplex and half-duplex links which are generally connected by network switches.
- D. 10GE implements access at a high bandwidth and low latency. 10GE is suitable for scenarios such as media & entertainment, high-performance computing, and OLAP.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 25

If the InfoLink license is not activated in an OceanStor 9000 storage system, the system cannot balance loads coming from clients.

- A. TRUE
- B. FALSE

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

If an OceanStor 9000 storage system consists of three P nodes and uses GE for the front-end network, how many IP addresses must be planned for the front-end service network segment?

- A. 17
- B. 18
- C. 19
- D. 20

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

Which of the following statements about NewSQL databases are correct? (Select 3 answers)

- A. MPP databases are not NewSQL databases.
- B. NewSQLdatabases have the capability to store and manage massive data.
- C. NewSQLdatabases support ACID and SQL as traditional databases do.
- D. NewSQLindicates various new databases that provide scalability and high performance.

**Correct Answer:** BCD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

If the back-end storage performance of an N8500 storage system deteriorates, which of the following items can be skipped during troubleshooting?

- A. Whether the sharing services are disabled
- B. Whether the batteries on the storage units are faulty
- C. Whether a link between the engine and a storage unit is down
- D. Whether the storage system has slow disks

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 29**

In an N8500, metadata is classified into many types. Different nodes process different types of metadata. Metadata is classified into which of the following types?

(Select 3 answers)

- A. Super block
- B. Log area
- C. Allocation unit
- D. Folder

**Correct Answer:** ABC

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### **QUESTION 30**

The figure shows the file pool policy configured for an OceanStor 9000 storage system. The monitoring and migration time is 2: 00-4: 00 a.m. every day. At 9: 00 a.m. on Monday, file A was created in the \example\test directory. By 10: 00 a.m., file A had been read and written for 15 times and the file size became 150 MB. After that, file A was no longer accessed. At 9: 00 a.m. on Tuesday, in which tier is file A stored?



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- A. Small-data tier
- B. High-performance tier
- C. High-bandwidth tier

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 31

Which of the following file system configurations are correct for the N8500 clustered NAS storage systems? (Select 2 answers)

- A. Set not more than 16 columns in a stripe file system to prevent serious data discretization.
- B. Set a block size to 8192 when the file system size is larger than 1TB.
- C. Set the number of columns consistent with that of RAID groups for a stripe file system,
- D. You are advised to disable quotas if the number of files exceeds 40 million.

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**



### QUESTION 32

An N8500 clustered NAS storage system cannot be logged in to using the master account. Which is the possible cause?

- A. The console IP address conflicts with another IP address on the network.
- B. The network port corresponding to the console IP address is not connected to a network cable or is in the shutdown state.
- C. The user name and password have been changed.
- D. A heartbeat link is down.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 33**

Which of the following are characteristics of big data? (Select 3 answers)

- A. Huge data volume
- B. Authentic and valid data
- C. Fast data circulation
- D. Various data types

**Correct Answer:** ACD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 34**

An OceanStor 9000 storage system is deployed using the OceanStor Toolkit. Which of the following statements about the settings of the OceanStor Toolkit configuration file are correct? (Select 2 answers)

- A. The cluster name can be set to 9000cluster.
- B. If the InfoLink license has not been purchased, you may skip the InfoLink DNS configuration.
- C. The front-end network gateway will serve as the default gateway of all storage nodes after being configured.
- D. The data redundancy ratio is the default ratio of all directories on the OceanStor 9000.

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 35**

Which of the following network file sharing protocols are supported by a NAS storage system? (Select 2 answers)

- A. FAT32
- B. NTFS
- C. NFS
- D. CIFS

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 36**

In an N8500 clustered NAS system, which of the following commands are commonly used to query a cluster's detailed resource information? (Select 2 answers)

- A. hares -state
- B. hares -display
- C. hagr -dep
- D. hagr -state

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 37**

In the OceanStor 9000, a node pool is a collection of nodes that have the same characteristics such as physical type and access performance, and DST allows a user to divide physical nodes in the same file system into node pools.

- A. TRUE
- B. FALSE

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 38**

Which of the following can be used to manage secure access to NFS shares? (Select 2 answers)



- A. AD
- B. NIS
- C. LDAP
- D. Homedir

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 39

The three mainstream storage forms are as follows: 1)SAN storage that provides block resources; 2)NAS storage that provides file system resources;3) object-based storage (OBS). SAN storage and NAS storage are traditional storage forms. Which of the following statements about the characteristics of the three storage forms are correct? (Select 3 answers)

- A. In traditional storage forms, disks are partitioned, file systems record file structures based on a tree relationship, and metadata is used to identify the use of blocks.
- B. Objects are the basic units of OBS. Each object is a composite of data and data property sets.
- C. In the OBS mechanism, data and metadata are stored and managed in a distributed manner.
- D. OBS is typically oriented to structured data applications.

**Correct Answer:** ABC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 40

In an N8500 clustered NAS system, underlying virtualization is implemented by the VxVM component. The virtual objects managed by the VxVM are VM disks, disk groups, subdisks, and plexes. Which of the following statements is incorrect?



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- A. A VM disk is controlled by the VxVM and typically located in a disk group. Each VM disk corresponds to at least one physical disk or disk partition.
- B. A disk group is a collection of VM disks.
- C. A subdisk is the basic unit for the VxVM to allocate disk space. To improve the efficiency of underlying resource use, a subdisk can be a group of inconsecutive disk blocks.
- D. A plex consists of one or multiple subdisks on one or multiple physical disks. Each plex contains a duplicate of the data selected in a volume.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 41

The license must be purchased for which of the following software features of the OceanStor 9000? (Select 3 answers)

- A. WushanFS
- B. InfoLink
- C. InfoQuota
- D. InfoTier

**Correct Answer:** BCD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 42

If the name of a shared directory is dirttest in an OceanStor 9000 storage system, local users who have permission can access the directory by entering \\\*. \*.\* \dirttest, where \*. \*.\* must be the front-end service IP address of the node that provides storage space for the dirttest directory.

- A. TRUE
- B. FALSE

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 43

Which of the following storage services can the N8500 clustered NAS system that employs the integrated networking mode provide for application servers? (Select 3 answers)

- A. CIFS
- B. 10 Gbit/s iSCSI SAN
- C. SASSAN
- D. FCSAN

**Correct Answer:** ABD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 44

Which of the following statements about the login information of the OceanStor 9000 after its software installation is complete are incorrect?

- A. The account and default password for logging in to the OceanStor DeviceManager are admin and Admin @storage respectively.
- B. To log in to the OceanStor DeviceManager from Internet Explorer, enter https://xx.xx.xx.xx:8088, where xx.xx.xx.xx is the management IP address of the OceanStor 9000.
- C. The default password for the default account root of the Linux operating system running on a storage node is root@storage.
- D. To log in to the IPMI of a storage node on Internet Explorer, enter https://xx.xx.xx.xx, where xx.xx.xx.xx is the IP address of the IPMI port on the storage node.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 45**

The master account is used to enter the CLI mode of N8500 V200R001. Which of the following operations can be performed related to NFS? (Select 3 answers)

- A. nfs server show
- B. nfs server status
- C. nfs server start
- D. nfs server stop

**Correct Answer:** BCD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 46**

A customer's OceanStor 9000 big data storage system uses GE for the front-end network and 10GE for the back-end network. If the OceanStor 9000 is configured with four C nodes, only a basic cabinet is required.

- A. TRUE
- B. FALSE

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 47**

For one or more Windows clients to access the storage resources on an OceanStor 9000 storage system, the administrator needs to create a directory under the root directory on the specified storage node and authorize the new directory to the target user or user group.

- A. TRUE
- B. FALSE

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 48**

The OceanStor 9000 can be installed in a Huawei-supplied cabinet only.

A. TRUE

B. FALSE

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### **QUESTION 49**

The OceanStor 9000 allows users to define file pool policies based on file attributes and I/O frequency. Which of the following statements about file pool policies are correct? (Select 3 answers)

A. A create policy is used to determine the initial location where a newly created file is to be stored. Such a policy includes the following items: file storage path, file name, and UID/GID

B. A relocate policy is used to determine the target location where a file is to be migrated.

C. A delete policy is used to determine when to delete a file from the system.

D. A modify policy is used to determine how to modify a file.

**Correct Answer:** ABC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 50**

Which of the following statements about the intelligent load balancing feature of the OceanStor 9000 are correct? (Select 3 answers)

- A. Performance is balanced among all nodes. Capacity cannot be balanced among all nodes.
- B. Nodes can be divided into zones. An independent load balancing policy and an independent domain name can be configured for each zone.
- C. Load balancing policies can be based on CPU usage, memory usage, bandwidth usage, number of network connections, and/or node capability.
- D. The OceanStor 9000 provides the load balancing service based on round robin, CPU usage, or the number of connections to a node.

**Correct Answer:** BCD

**Section:** (none)

**Explanation**

**Explanation/Reference:**



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