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QUESTION 1

Which of the following actions should a server administrator take once a new backup scheme has been configured?

- A. Overwrite the backups
- B. Clone the configuration
- C. Run a restore test
- D. Check the media integrity

Correct Answer: C

The action that the server administrator should take once a new backup scheme has been configured is to run a restore test. A restore test is a process of verifying that the backup data can be successfully recovered and restored to its original location or a different location. A restore test can help ensure that the backup scheme is working properly, that the backup data is valid and consistent, and that there are no errors or issues during the recovery process. A restore test should be performed periodically and after any changes to the backup configuration or environment.

QUESTION 2

A newly installed server is accessible to local users, but remote users are unable to connect. Which of the following is MOST likely misconfigured?

- A. The IP address
- B. The default gateway
- C. The VLAN
- D. The subnet mask

Correct Answer: B

This is the most likely misconfigured setting because the default gateway is the router that connects the local network to other networks. If the default gateway is incorrect, the server will not be able to communicate with remote users or devices outside its own subnet.

References: <https://docs.microsoft.com/en-us/windows-server/administration/windows-commands/ipconfig>

QUESTION 3

A technician is configuring a server that requires secure remote access. Which of the following ports should the technician use?

- A. 21
- B. 22
- C. 23

D. 443

Correct Answer: B

The technician should use port 22 to configure a server that requires secure remote access. Port 22 is the default port for Secure Shell (SSH), which is a protocol that allows secure remote login and command execution over a network connection using a command-line interface (CLI). SSH encrypts both the authentication and data transmission between the client and the server, preventing eavesdropping, tampering, or spoofing. SSH can be used to perform various tasks on a server remotely, such as configuration, administration, maintenance, troubleshooting, etc.

QUESTION 4

An administrator needs to increase the size of an existing RAID 6 array that is running out of available space. Which of the following is the BEST way the administrator can perform this task?

- A. Replace all the array drives at once and then expand the array.
- B. Expand the array by changing the RAID level to 6.
- C. Expand the array by changing the RAID level to 10.
- D. Replace the array drives one at a time and then expand the array.

Correct Answer: D

QUESTION 5

A company is building a new datacenter next to a busy parking lot. Which of the following is the BEST strategy to ensure wayward vehicle traffic does not interfere with datacenter operations?

- A. Install security cameras
- B. Utilize security guards
- C. Install bollards
- D. Install a mantrap

Correct Answer: C

The best strategy to ensure wayward vehicle traffic does not interfere with datacenter operations is to install bollards. Bollards are sturdy posts that are installed around a perimeter to prevent vehicles from entering or crashing into a protected area. Bollards can provide physical security and deterrence for datacenters that are located near busy roads or parking lots. Bollards can also prevent accidental damage or injury caused by vehicles that lose control or have faulty brakes.

QUESTION 6

A server technician is configuring the IP address on a newly installed server. The documented configuration specifies using an IP address of 10.20.10.15 and a default gateway of 10.20.10.254. Which of the following subnet masks would be appropriate for this setup?

- A. 255.255.255.0
- B. 255.255.255.128
- C. 255.255.255.240
- D. 255.255.255.254

Correct Answer: A

The administrator should use a subnet mask of 255.255.255.0 for this setup. A subnet mask is a binary number that defines how many bits of an IP address are used for the network portion and how many bits are used for the host portion. The network portion identifies the specific network that the IP address belongs to, while the host portion identifies the specific device within that network. The subnet mask is usually written in dotted decimal notation, where each octet represents eight bits of the binary number. A 1 in the binary number means that the corresponding bit in the IP address is part of the network portion, while a 0 means that it is part of the host portion. For example, a subnet mask of

255.255.255.0 means that the first 24 bits (three octets) of the IP address are used for the network portion and the last 8 bits (one octet) are used for the host portion. This subnet mask allows up to 254 hosts per network ($2^8 - 2$). In this case, the IP address of 10.20.10.15 and the default gateway of 10.20.10.254 belong to the same network of 10.20.10.0/24 (where /24 indicates the number of bits used for the network portion), which can be defined by using a subnet mask of

255.255.255.0.

QUESTION 7

Which of the following will correctly map a script to a home directory for a user based on username?

- A. \\server\users\$username
- B. \\server%username%
- C. \\server\FirstInitialLastName
- D. \\server\$username\$

Correct Answer: B

The administrator should use \\server%username% to correctly map a script to a home directory for a user based on username. %username% is an environment variable that represents the current user's name on a Windows system. By using

this variable in the path of the script, the administrator can dynamically map the script to the user's home directory on the server. For example, if the user's name is John, the script will be mapped to \\server\John.

Reference:

<https://social.technet.microsoft.com/Forums/windows/en-US/07cfc73-796d-48aa-96a9-08280a1ef25a/mapping-home-directory-with-username-variable?forum=w7itprogeneral>

QUESTION 8

Which of the following commands would MOST likely be used to register a new service on a Windows OS?

- A. set-service
- B. net
- C. sc
- D. services.msc

Correct Answer: C

The command that would most likely be used to register a new service on a Windows OS is "sc".

"sc" is a command-line utility that is used to manage Windows services. It can be used to create, modify, start, stop, and delete services, among other things. The "create" command in particular is used to create a new service.

The other options listed (A, B, and D) are not used specifically for registering new services. "set-service" is used to modify the settings of an existing service, "net" is used for managing network resources, and "services.msc" is a graphical

user interface (GUI) tool for managing services.

QUESTION 9

A user logs in to a Linux server and attempts to run the following command:

```
sudo emacs /root/file
```

However, the user gets the following message:

```
User userid is not allowed to execute `emacs\\' on this server.
```

Which of the following would BEST allow the user to find out which commands can be used?

- A. visudo | grep userid
- B. sudo -1 -U userid
- C. cat /etc/passwd
- D. userlist | grep userid

Correct Answer: B

The BEST option to allow the user to find out which commands can be used is option B: sudo -1 -U userid.

This command allows the user to run a shell with the privileges of the specified user (-U userid) while preserving their own environment (-i). This means that the user will be able to see the commands they are authorized to run, and also

allows them to test running those commands as the authorized user.

Option A (visudo | grep userid) runs the visudo command with the intention of displaying the sudoers file contents that have configuration options for the specified user, but it will not show the available commands.

Option C (cat /etc/passwd) shows the contents of the /etc/passwd file, which contains user account information including usernames, user IDs, home directories, and login shells. However, it will not show the commands that the user can run.

Option D (userlist | grep userid) does not seem to be a valid command and would not help the user find the available commands they can run.

QUESTION 10

A server administrator added a new drive to a server. However, the drive is not showing up as available. Which of the following does the administrator need to do to make the drive available?

- A. Partition the drive.
- B. Create a new disk quota.
- C. Configure the drive as dynamic.
- D. Set the compression.

Correct Answer: A

To make a new drive available on a server, the administrator needs to partition the drive first. Partitioning is a process that divides the drive into one or more logical sections that can be formatted and assigned drive letters or mount points. Partitioning can be done using tools such as Disk Management on Windows or fdisk on Linux. Creating a new disk quota would not help, as disk quotas are used to limit the amount of disk space that users or groups can use on a partition. Configuring the drive as dynamic would not help either, as dynamic disks are used to create volumes that span multiple disks or use RAID features. Setting the compression would not help, as compression is used to reduce the size of files on a partition.

References: <https://www.howtogeek.com/school/using-windows-admin-tools-like-a-pro/lesson2/>
<https://www.howtogeek.com/howto/17001/how-to-format-a-usb-drive-in-ubuntu-using-gparted/>

QUESTION 11

A critical server has stopped responding in a distant location where there are no remote technicians to check the condition of the server. Which of the following can assist in checking the condition of the server? (Choose two.)

- A. VNC
- B. Bootstrap protocol
- C. iDRAC
- D. Remote desktop protocol
- E. SSH
- F. ILO

Correct Answer: EF

QUESTION 12

An administrator is editing permissions on a workstation's file share. The administrator wishes to ensure that only marketing and accounting can write to the share over the network. IT staff should be able to modify share contents, but no other groups should have access to the network share. The existing permissions are:

Share Permissions:

IT Staff	Allow Read, Write
Accounting	Allow Read, Write
Marketing	Allow Read, Write
Everyone	Allow Read

Which of the following changes should be made to apply the share while preserving the access of local users? (Choose two.)

- A. Under share permissions, change permissions to "Deny Read, Write" for Everyone.
- B. Under share permissions, add "Full Control" for IT Staff.
- C. Under share permissions, remove the Everyone group.
- D. Under permissions, remove "Full Control" for Accounting.
- E. Under permissions, change permissions to "Deny Read, Write" for Everyone.

Correct Answer: BE

QUESTION 13

Which of the following allows for a connection of devices to both sides inside of a blade enclosure?

- A. Midplane
- B. Active backplane
- C. Passive backplane
- D. Management module

Correct Answer: A

The component that allows for a connection of devices to both sides inside of a blade enclosure is midplane. A midplane is a board or panel that connects two sets of connectors or devices in parallel with each other. A midplane is typically used in blade enclosures or chassis to provide power and data connections between blade servers on one side and power supplies, cooling fans, switches, or management modules on the other side. A midplane can also act as a backplane by providing bus signals or communication channels between devices.

QUESTION 14

Ann, an administrator, is configuring a two-node cluster that will be deployed. To check the cluster's functionality, she

shuts down the active node. Cluster behavior is as expected, and the passive node is now active. Ann powers on the server again and wants to return to the original configuration. Which of the following cluster features will allow Ann to complete this task?

- A. Heartbeat
- B. Failback
- C. Redundancy
- D. Load balancing

Correct Answer: B

The cluster feature that will allow Ann to complete her task is failback. A cluster is a group of servers that work together to provide high availability, scalability, and load balancing for applications or services. A cluster can have different nodes or members that have different roles or states. An active node is a node that is currently running an application or service and serving requests from clients. A passive node is a node that is on standby and ready to take over if the active node fails. A failover is a process of switching from a failed or unavailable node to another node in a cluster. A failback is a process of switching back from a failover node to the original node after it becomes available again. Failback can be automatic or manual depending on the cluster configuration.

QUESTION 15

A data center technician is assigned the daily task of walking through the data center to perform a health check on all the systems. Which of the following issues can the technician detect without logging on to any of the systems? (Choose two.)

- A. VLAN mismatch
- B. UPS battery fault
- C. Overheating
- D. Memory exhaustion
- E. IP conflict
- F. OS failure

Correct Answer: BC

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