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QUESTION 1

A systems administrator recently installed a new virtual server. After completing the installation, the administrator was only able to reach a few of the servers on the network. While testing, the administrator discovered only servers that had similar IP addresses were reachable. Which of the following is the most likely cause of the issue?

- A. The jumbo frames are not enabled.
- B. The subnet mask is incorrect.
- C. There is an IP address conflict.
- D. There is an improper DNS configuration.

Correct Answer: B

QUESTION 2

A server in a remote datacenter is no longer responsive. Which of the following is the BEST solution to investigate this failure?

- A. Remote desktop
- B. Access via a crash cart
- C. Out-of-band management
- D. A Secure Shell connection

Correct Answer: C

The best solution to investigate the failure of a server in a remote datacenter is out-of-band management. Out-of-band management is a method of accessing and controlling a server or a device using a dedicated channel that is separate from its normal network connection. Out-of-band management can use various technologies, such as serial ports, modems, KVM switches, or dedicated management cards or interfaces. Out-of-band management can provide remote access to servers or devices even when they are powered off, unresponsive, or disconnected from the network. Out-of-band management can enable troubleshooting, configuration, maintenance, or recovery tasks without requiring physical presence at the server location.

Reference: https://www.lantronix.com/wp-content/uploads/pdf/Data_Center_Mgmt_WP.pdf

QUESTION 3

After installing a new file server, a technician notices the read times for accessing the same file are slower than the read times for other file servers. Which of the following is the first step the technician should take?

- A. Add more memory.
- B. Check if the cache is turned on.
- C. Install faster hard drives.

D. Enable link aggregation.

Correct Answer: B

QUESTION 4

An application server's power cord was accidentally unplugged. After plugging the cord back in, the server administrator notices some transactions were not written to the disk array.

Which of the following is the MOST likely cause of this issue?

- A. Backplane failure
- B. CMOS failure
- C. Misconfigured RAID
- D. Cache battery failure

Correct Answer: D

QUESTION 5

A server technician is installing a new server OS on legacy server hardware. Which of the following should the technician do FIRST to ensure the OS will work as intended?

- A. Consult the HCL to ensure everything is supported.
- B. Migrate the physical server to a virtual server.
- C. Low-level format the hard drives to ensure there is no old data remaining.
- D. Make sure the case and the fans are free from dust to ensure proper cooling.

Correct Answer: A

The first thing that the technician should do before installing a new server OS on legacy server hardware is to consult the HCL (Hardware Compatibility List) to ensure everything is supported. The HCL is a list of hardware devices and components that are tested and certified to work with a specific OS or software product. The HCL helps to avoid compatibility issues and performance problems that may arise from using unsupported or incompatible hardware. Migrating the physical server to a virtual server may be a good option to improve scalability and flexibility, but it requires additional hardware and software resources and may not be feasible for legacy server hardware. Low-level formatting the hard drives may be a good practice to erase any old data and prepare the drives for a new OS installation, but it does not guarantee that the hardware will work with the new OS. Making sure the case and the fans are free from dust may be a good practice to ensure proper cooling and prevent overheating, but it does not guarantee that the hardware will work with the new OS.

References: <https://www.howtogeek.com/190014/virtualization-basics-understanding-techniques-and-fundamentals/>
<https://www.howtogeek.com/173353/how-to-low-level-format-or-write-zeros-to-a-hard-drive/>
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