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Shared by Williams on 09-08-2024

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Question 1

A user wants to create a VM on a computer. Which of the following should the user check first?

Options:

A- Installed RAM amount

B- Hard drive space

C- BIOS CPU settings

D- Graphics card compatibility

Answer:

C

Explanation:

Before creating a virtual machine (VM) on a computer, it's crucial to ensure that the CPU supports virtualization and that this feature is enabled in the BIOS (or UEFI) settings. While sufficient RAM and hard drive space are also important for running VMs effectively, and

compatibility with the graphics card might be a consideration for VMs with intensive graphical requirements, the foundational step is to verify that the CPU supports virtualization and that this feature is activated in the BIOS settings. This is because virtualization technology, often referred to as VT-x (on Intel CPUs) or AMD-V (on AMD CPUs), is a prerequisite for running most virtualization software efficiently.

CompTIA A+ Core 1 Exam Objectives Section 4.0: Virtualization and Cloud Computing

Question 2

A technician is troubleshooting poor printing quality on an inkjet printer. The pages have white lines running through the text and graphics. Which of the following is the most likely cause?

Options:

A- Worn out rollers

B- Clogged printhead

C- Faulty ink cartridges

D- Poor quality paper

Answer:

B

Explanation:

White lines running through text and graphics in printouts from an inkjet printer are commonly caused by clogged printheads. When the printhead nozzles are clogged, they cannot deliver ink properly to the paper, resulting in white lines where ink should have been deposited. Worn-out rollers, faulty ink cartridges, and poor-quality paper can cause other printing issues but are less likely to cause white lines in the printed output.

CompTIA A+ Core 1 Exam Objectives Section 3.7: Given a scenario, install and replace printer consumables.

Question 3

Question Type: **MultipleChoice**

A company issued smartphones to users who work from home. The devices are enrolled and configured within the company's MDM, and hardening profiles were deployed to each device for greater security. Which of the following services best enhances security for remote users accessing company resources? (Select two).

Options:

A- Two-factor authentication

B- Managed corporate applications

C- Cloud data synchronization

D- Automated device setup

E- GPS location tracking

F- PIN code enforcement

Answer:

A, F

Explanation:

Two-factor authentication (2FA) significantly enhances security by requiring two forms of verification before granting access to company resources, making it harder for unauthorized users to gain access even if they have one of the credentials. PIN code enforcement adds an additional layer of security by ensuring that devices are protected by a PIN, making physical access to the device more challenging for unauthorized users. While the other options provide various benefits, 2FA and PIN code enforcement directly enhance the security of remote users accessing company resources.

Question 4

Question Type: MultipleChoice

A user purchased a retail router and would like to set up a private network. Which of the following network address ranges should the user configure?

Options:

A- 170.50.0.0 to 170.50.255.255

B- 172.16.0.0 to 172.31.255.255

C- 224.0.0.0 to 224.255.255.255

D- 239.0.0.0 to 239.255.255.255

Answer:

B

Explanation:

For setting up a private network, the IP address range should be one that is reserved for private use. The range 172.16.0.0 to 172.31.255.255 falls within the set of IP addresses designated for private networks according to RFC 1918. This range is not routable on the public internet, making it ideal for a private network setup on a retail router.

CompTIA A+ Core 1 Exam Objectives Section 2.5: Given a scenario, install and configure basic wired/wireless SOHO networks.

Question 5

Question Type: MultipleChoice

A technician installed four hard drives in a RAID 5 configuration. After creating the array, the technician is unable to copy files to the array within Windows. Which of the following should the technician do next?

Options:

A- Decrease the number of drives to three.

B- Partition and format the volume.

C- Rebuild the array.

D- Check the hot spare status.

Answer:

B

Explanation:

After setting up a RAID 5 array, the next step is to make the storage space usable by the operating system. This involves partitioning the array to define how the storage space is organized and then formatting it with a file system that the operating system can understand, thus making it possible to copy files to the array. Decreasing the number of drives, rebuilding the array, or checking the hot spare status would not address the issue of the array not being ready to store files.

CompTIA A+ Core 1 Exam Objectives Section 3.3: Given a scenario, select and install storage devices.

Question 6

Question Type: MultipleChoice

A user wants to overclock a GPU but is concerned about potential overheating. Which of the following would best address the user's concern?

Options:

A- Thicker thermal pads

B- Liquid cooling

C- Larger heat sink

D- Fan upgrade

Answer:

B

Explanation:

Liquid cooling is an effective solution for managing the high heat output that can result from overclocking a GPU. It's more efficient than air cooling methods (like larger heat sinks or fan upgrades) and can better maintain lower temperatures under load, reducing the risk of overheating.

CompTIA A+ Core 1 Exam Objectives Section 3.4: Given a scenario, install and configure motherboards, CPUs, and add-on cards.

These answers align with the CompTIA A+ certification objectives and are derived from the official CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) Exam Objectives documents.

Question 7

A department is upgrading its printers and wants to save money on consumables. Which of the following printer features would allow the department to cut costs?

Options:

A- Collate

B- Duplex

C- Secure print

D- Scanner

Answer:

B

Explanation:

Duplex printing allows printing on both sides of a paper, which can significantly reduce paper consumption and costs associated with buying paper. This makes duplex printing the best feature for cutting costs on consumables.

CompTIA A+ Core 1 Exam Objectives Section 3.6: Given a scenario, deploy and configure multifunction devices/printers and settings.

Question 8

An engineer is upgrading the power supply of a workstation to add a GPU. The current power supply is 380W, and the GPU is a six-pin power connector. Which of the following is the minimum power supply the engineer should install?

Options:

A- 400W

B- 450W

C- 500W

D- 550W

Answer:

B

Explanation:

Upgrading a power supply to add a GPU typically requires more wattage to accommodate the additional power demands. Although the current power supply is 380W, adding a GPU with a six-pin power connector suggests a mid-range graphics card, which would likely need a total system power supply in the range of 450W to ensure adequate power for all components, providing a good balance between capacity and safety margins.

CompTIA A+ Core 1 Exam Objectives Section 3.5: Given a scenario, install or replace the appropriate power supply.