

CompTIA

Exam Questions 220-1101

CompTIA A+ Certification Exam: Core 1



NEW QUESTION 1

- (Topic 2)

A startup company is outgrowing its current office space and is requiring employees to work remotely. The company must comply with government-enforced requirements to safeguard all aspects of data, so the IT department plans to maintain complete control over users' operating systems. Which of the following should the IT department implement?

- A. VDI
- B. IaaS
- C. VPN
- D. SaaS

Answer: A

Explanation:

The IT department should implement VDI. Virtual Desktop Infrastructure (VDI) is a technology that allows users to access a desktop operating system from a remote location. VDI provides complete control over users' operating systems, which is important for safeguarding data. VDI also provides a secure way to access data from remote locations, which is important for compliance with government-enforced requirements¹.

NEW QUESTION 2

- (Topic 2)

A technician was called in to look at a user's PC. The user reported the PC was very sluggish. The HDD light on the PC was constantly on without blinking. The PC itself was slow receiving input and took a very long time to load the OS. The technician also noticed updates had failed. Which of the following is MOST likely the cause of these issues?

- A. The hard disk drivers have been corrupted
- B. The HDD cables need reseating.
- C. A RAID disk failed.
- D. The HDD has no free space.

Answer: D

Explanation:

If a user's PC is very sluggish, the HDD light on the PC is constantly on without blinking, the PC itself is slow receiving input, and it takes a very long time to load the OS, the HDD has no free space is most likely the cause of these issues. When the hard disk drive (HDD) has no free space, the computer may become slow and unresponsive.

The technician should check the amount of free space on the HDD and delete any unnecessary files to free up space.

NEW QUESTION 3

- (Topic 2)

An end user discovered that the touch-screen features on a Windows device have stopped working. Which of the following should a technician check?

- A. Performance monitor
- B. Tablet/PC settings
- C. System configuration
- D. Display settings

Answer: B

Explanation:

If the touch-screen features on a Windows device have stopped working, a technician should check the Tablet/PC settings. The Tablet/PC settings contain options for configuring the touch-screen features on a Windows device. By checking the Tablet/PC settings, the technician can ensure that the touch-screen features are enabled and configured correctly.

If the touch-screen features on a Windows device have stopped working, a technician should check the Tablet/PC settings. The touch-screen settings may have been disabled or there may be a driver issue that needs to be resolved. References: CompTIA A+ Certification Exam Guide, pg. 536

NEW QUESTION 4

- (Topic 2)

Which of the following types of devices MOST often uses a Thunderbolt cable?

- A. Linux PC
- B. Android mobile
- C. Apple laptop
- D. Chromebook

Answer: C

Explanation:

Thunderbolt cables are commonly used to connect Apple laptops to external displays or other devices. While Thunderbolt is available on some Windows and Chromebook devices, it is most commonly associated with Apple products. References:

<https://www.intel.com/content/www/us/en/products/docs/io/thunderbolt/thunderbolt-technology-general.html>

NEW QUESTION 5

- (Topic 2)

A user calls the help desk for assistance configuring an Android phone with a new NFC-enabled speaker that will be used for an upcoming conference call. The user was unable to direct the phone's audio to the NFC speaker. Which of the following sequences should the help desk technician walk the customer through to accomplish this task?

- A. Enable NFC on the speake
- B. Ensure the speaker is less than 33ft (10m) from the Android phon
- C. On the phone's Bluetooth settings menu for Connected Devices, select Pair New Devic
- D. Tap to accept the connection to the speaker when the prompt is displayed on the phone's screen.
- E. Enable NFC and Bluetooth on the Android phon
- F. From the Android phone's Bluetooth settings menu for Connected Devices, select the Previously Connected Devices optio
- G. Select a listed device that most closely matches the speake
- H. Tap lo accept the connection lo the speaker when the prompt is displayed on the phone's screen.
- I. Enable NFC and Bluetooth on the Android phon
- J. Tap and hold the Android phone to the spot on the speaker where the NFC logo is displaye
- K. Accept the connection to the speaker when the prompt is displayed on the phone's screen.
- L. Enable Wi-Fi on the speake
- M. Enable Wi-Fi on the Android phon
- N. Tap and hold the Android phone to the spot on the speaker where the NFC logo is displaye
- O. Accept the connection to the speaker when the prompt is displayed on the phone's screen.

Answer: A

NEW QUESTION 6

- (Topic 2)

Which of the following is used to implement network security polices for an environment?

- A. Managed switch
- B. Repeater
- C. Firewall
- D. Gateway

Answer: C

Explanation:

It is designed to protect an organization's network infrastructure and data from unauthorized access, while allowing legitimate traffic to pass through. Firewalls can be configured to enforce security policies that block certain types of traffic, limit access to specific network resources, and prevent attacks such as malware and phishing.

A firewall is a network security system that monitors and controls incoming and outgoing network traffic based on predetermined security rules. It establishes a barrier between a trusted internal network and an untrusted external network, such as the Internet. Firewalls are used to implement network security policies for an environment by controlling access to the network and protecting it from unauthorized access.

A firewall is used to implement network security policies. It monitors incoming and outgoing traffic based on predetermined security rules and can block traffic that does not meet the defined criteria. References: CompTIA A+ Certification All-in-One Exam Guide, Tenth Edition by Mike Meyers (Chapter 6, page 243)

NEW QUESTION 7

- (Topic 2)

A technician is adding one more line at the demarcation point. Which of the following tools would be MOST useful to accomplish this task?

- A. Toner
- B. Punchdown
- C. Network tap
- D. Crimper

Answer: B

Explanation:

Punchdown tools are used to make connections between wires in a 66/110 block at the demarcation point. The tool is used to insert the wire into the appropriate holes in the block, and it can be used to add additional lines to the demarcation point. The other options are not the correct tools for adding lines to the demarcation point. A toner is used to identify cable pairs, a network tap is used to monitor network traffic, and a crimper is used to terminate cables.

NEW QUESTION 8

- (Topic 2)

A user has decided to build a new computer with parts purchased from a popular online vendor. The user has referenced online resources to assemble the unit. However, when the user presses the power button, the new computer does not load the operating system's installer. Instead, the onboard speaker beeps and immediately reports an issue on the screen. Which of the following is the MOST likely issue with the new build?

- A. The user did not plug in the processor's fan.
- B. The user did not apply thermal paste to the CPU.
- C. The user did not seat the GPU correctly.
- D. The user did not install the power supply.

Answer: A

Explanation:

If a computer is not booting and the onboard speaker emits beeps, it can indicate a hardware issue. One of the most common causes of beep codes is overheating, which can occur if the processor's fan is not properly installed and running. The processor's fan is responsible for cooling the processor and preventing damage to the internal components.

NEW QUESTION 9

- (Topic 2)

A technician is replacing a computer with a connected point-of-sale system using a 9-pin serial adapter. The new computer does not have a 9-pin serial port. Which of the following ports can an adapter be installed on in order to connect to the point-of-sale system?

- A. HDMI

- B. Bluetooth
- C. USB
- D. Lightning

Answer: C

Explanation:

A USB to 9-pin serial adapter can be used to connect the new computer to the point-of-sale system using a USB port. USB is a common and versatile port type found on most computers.

If a technician is replacing a computer with a connected point-of-sale system using a 9-pin serial adapter and the new computer does not have a 9-pin serial port, an adapter can be installed on the USB port in order to connect to the point-of-sale system. A USB-to-serial adapter can be used to connect a serial device to a USB port on a computer.

NEW QUESTION 10

- (Topic 2)

Which of the following allows all VMs in a virtual environment to have RAM allocated for use?

- A. Measured service
- B. Containerization
- C. Synchronization
- D. Resource pooling

Answer: D

Explanation:

The concept described in the question is related to virtualization and resource management in a virtual environment. The approach that allows all virtual machines (VMs) to have memory (RAM) allocated for use is known as resource pooling. Therefore, the correct answer is D: "Resource pooling." This approach allows resources to be allocated dynamically to VMs based on their current needs, and ensures that resources are used efficiently in the virtual environment.

Resource pooling is a technique used in virtualization to share resources among multiple virtual machines (VMs). With resource pooling, RAM can be allocated dynamically to VMs as needed, allowing all VMs in a virtual environment to have RAM allocated for use. References:

https://en.wikipedia.org/wiki/Resource_pooling

NEW QUESTION 10

- (Topic 1)

A user reports that a PC occasionally fails to boot. The user reboots the PC. but the performance is degrading. The technician hears a strange, repetitive, ticking noise coming from the PC. Which of the following should the technician do FIRST?

- A. Try to extract data.
- B. Reseat the RAM modules.
- C. Inspect the fan.
- D. Check the CD tray.

Answer: A

Explanation:

This is a safe and sensible option if you value your data more than anything else. You don't want to risk losing your data by trying other methods that may worsen the situation. You can use a software tool or a service provider to recover your data before attempting any repairs.

NEW QUESTION 13

- (Topic 1)

Which of the following describes metered utilization of cloud resources?

- A. Resources provisioned instantly
- B. Payments made only for resources that are used
- C. Resources pooled to increase computing power
- D. Implementation of rapid elasticity

Answer: B

Explanation:

Metered utilization of cloud resources refers to payments made only for resources that are used. Cloud providers offer a pay-as-you-go model where customers are charged based on their usage of resources. Customers can easily scale up or down their usage of resources as per their needs and only pay for what they use. References: CompTIA A+ Certification All-in-One Exam Guide, Tenth Edition by Mike Meyers (Page 642)

NEW QUESTION 17

- (Topic 1)

An online retailer would like to add capacity to support increased sales. Additional servers have been installed. Which of the following should be used to ensure each new server is being properly utilized?

- A. Virtualization
- B. Clustering
- C. Load balancer
- D. Round-robin DNS

Answer: C

Explanation:

<https://www.resonatenetworks.com/2020/04/29/clustering-vs-load-balancing- whats-the-difference/>

A load balancer distributes network traffic evenly across multiple servers, ensuring each server is being properly utilized. This helps to prevent overloading of any individual server, which can cause downtime or slow response times for users. In this scenario, adding a load balancer would be the best way to ensure the new servers are being properly utilized. References: CompTIA A+ Certification Exam: Core 1 - Page 181

NEW QUESTION 20

- (Topic 1)

A user submits a help desk ticket regarding a smartphone that will no longer accept its charging cable. The assigned technician notices the phone does not have a protective case, and the user constantly transport the phone in a pocket. The technician attempts to use a secondary charger, but the cable falls out of the phone. Which of the following is the MOST likely cause of the issue?

- A. The phone requires a firmware update to address charging issues.
- B. The charge port contains foreign objects, such as lint.
- C. The phone's battery has swelled, preventing the utilization of the charge port.
- D. The phone has experienced water damage, thus the battery is not charging.

Answer: B

Explanation:

The symptoms suggest that the charging cable falls out of the phone, indicating that the charge port may contain foreign objects such as lint, which can interfere with the connection between the charging cable and the phone.

NEW QUESTION 24

- (Topic 1)

A company has a dot matrix printer that uses carbon paper. The company reports that the first page is printing too light, although the following pages are still legible. Which of the following MOST likely needs to be fixed?

- A. The print drum is worn and loose causing the printing to be light in places
- B. The ribbon is low on ink or missing and must be replaced to get proper output
- C. The heating element has failed, and a new one needs to be installed for proper transfer
- D. The wrong type of filament is loaded, preventing it from sticking correctly
- E. The fuser assembly is not calibrated properly, causing it to impact the paper too hard

Answer: B

Explanation:

Dot Matrix printers do not use heat, they use a pin striking an inked ribbon (for the first copy, the subsequent copies are handled by the carbon paper) The ribbon is low on ink or missing and must be replaced to get proper output in a dot matrix printer that uses carbon paper. References: CompTIA A+ Certification Exam Guide, Exam 220-1001, Page 361

NEW QUESTION 27

- (Topic 1)

Which of the following describes the main difference between T568A and T568B cabling standards?

- A. The T568B data transfer rate is higher than T568A.
- B. The green and the orange cables are interchanged.
- C. T568A is used in blue cables, and T568B is used in green cables.
- D. The standards use different cable connectors.

Answer: B

Explanation:

The main difference between T568A and T568B cabling standards is that the green and orange cables are interchanged¹². T568A is designed for backward compatibility with older telephone wires, while T568B is designed for better signal isolation and noise protection for newer networking systems and products³. T568A is used in blue cables, and T568B is used in green cables¹. The standards use the same cable connectors³.

NEW QUESTION 29

- (Topic 1)

An engineer is experiencing unexpected reboots on a graphics workstation when rendering complex 3-D models. The workstation is configured with a 115V power supply that is rated at 200W and connected to a UPS. The central processing unit contains 16 hyperthreaded cores, and a discrete graphics solution utilizing an 8-pin power connector is installed in a PCI Express x16 slot. Which of the following indicates where the technician should begin troubleshooting?

- A. The UPS, as 115V is insufficient for the configuration and should be increased to 220V
- B. The power supply, as 200W is insufficient when the GPU is heavily tasked
- C. The graphics card, as it is the component that triggers the unexpected reboots
- D. The motherboard, as only standard PCI slots should be used for high-end graphics cards, not PCI Express slots

Answer: B

Explanation:

The unexpected reboots on a graphics workstation when rendering complex 3-D models may be caused by insufficient power supply. The workstation is configured with a 115V power supply that is rated at 200W, which may not be enough when the GPU is heavily tasked. The technician should begin troubleshooting by checking the power supply.

NEW QUESTION 34

- (Topic 1)

A technician is monitoring all outbound traffic in a SOHO. Which of the following is the MOST cost-effective solution to monitor the traffic?

- A. Spectrum analyzer

- B. Network tap
- C. Lookback plug
- D. Toner probe

Answer: B

Explanation:

A network tap is used to intercept the signals passing over a cable and send them to a packet or protocol analyzer. Taps are either powered or unpowered:

NEW QUESTION 38

- (Topic 1)

A technician replaced a motherboard on a server, and now the 64-bit hypervisor is not loading correctly. Which of the following needs to be enabled for the hypervisor to run?

- A. Hardware prefetcher
- B. Hyperthreading
- C. vPro
- D. VT-d

Answer: D

Explanation:

https://techlibrary.hpe.com/docs/iss/proliant-gen10-uefi/s_enabling_VT-d.html

Enabling VT-d (Virtualization Technology for Directed I/O) in the server's BIOS settings is required for the hypervisor to run properly. References: CompTIA A+ Certification Exam Guide, Ninth Edition, Chapter 11

NEW QUESTION 42

- (Topic 1)

A system administrator has been tasked with allowing SMTP traffic through the system's host-based firewall. Which of the following ports should the administrator enabled?

- A. 23
- B. 25
- C. 80
- D. 161

Answer: B

Explanation:

SMTP (Simple Mail Transfer Protocol) uses port 25 to send email messages between servers¹².

SMTP uses port 25 to send email messages between mail servers. Therefore, the system administrator should enable port 25 to allow SMTP traffic through the host-based firewall. References: CompTIA A+ Certification Study Guide, Tenth Edition, pg. 282

NEW QUESTION 45

- (Topic 1)

Which of the following BEST describes the main function of a web server?

- A. Storing files and controlling user access
- B. Setting up personal mailboxes and calendars
- C. Providing IP addresses and printing services
- D. Hosting home pages and business portals

Answer: D

Explanation:

A web server is a software application that serves HTTP (Hypertext Transfer Protocol) requests by delivering web pages and other files to users' web browsers.

The main function of a web server is to host home pages and business portals, making them accessible to users via the internet. References: CompTIA A+ Certification Exam Objectives 220-1001 - Networking - 1.6

NEW QUESTION 48

- (Topic 1)

Which of the following would be BEST reason to use a virtual machine as a sandbox?

- A. To test new software in a safe environment
- B. To increase the efficient use of computing resources
- C. To run multiple machines on the same hardware
- D. To have dedicated hardware for a single system

Answer: A

Explanation:

The main reason to use a virtual machine as a sandbox is to test new software in a safe environment without risking the integrity of the host operating system.

Using a virtual machine enables the testing of software and allows for the isolation of the software from the host system. References: CompTIA A+ Certification Study Guide, Tenth Edition, pg. 409

NEW QUESTION 51

- (Topic 1)

An organization is looking to upgrade the processing ability for its computers. Most users report that whenever multiple applications are being utilized, the system's response time slows down drastically. When only one application is open, the response time is acceptable. Which of the following should be upgraded FIRST?

- A. SSD
- B. CPU
- C. HDD
- D. RAM

Answer: D

Explanation:

The component that should be upgraded first is the RAM. When multiple applications are being utilized, the system's response time slows down drastically. This is because the computer is running out of memory. Upgrading the RAM will allow the computer to store more data in memory, which will improve performance when multiple applications are being used.

NEW QUESTION 53

- (Topic 1)

A technician is receiving reports that the entire office sporadically loses network connectivity throughout the day. The technician determines the root cause to be EMI. Which of the following cable mediums would be the MOST cost effective without sacrificing system performance?

- A. Coaxial
- B. Shielded Cat 6
- C. Plenum Cat 5e
- D. Multimode fiber

Answer: B

Explanation:

In this situation, the MOST cost-effective cable medium that would not sacrifice system performance would be B. Shielded Cat 6. Electromagnetic interference (EMI) can disrupt network connectivity by interfering with the signals transmitted over network cables. Shielded Cat 6 cables are designed to provide protection against EMI by incorporating a layer of shielding material around the cable's conductors. This shielding helps to prevent EMI from interfering with the signals transmitted over the cable.

NEW QUESTION 54

- (Topic 1)

An organization maintains various record types, including health and criminal justice records. Which of the following cloud environments is the organization MOST likely to use to limit the attack surface?

- A. Public
- B. Hybrid
- C. Community
- D. Private

Answer: D

Explanation:

Private cloud environments are designed for use by a single organization and offer the greatest control over security and access to data. They are typically used for sensitive or confidential data, such as health and criminal justice records. Public cloud environments are shared by multiple organizations and offer less control over security and access to data. Hybrid cloud environments combine public and private clouds, while community clouds are shared by multiple organizations with similar needs. References: CompTIA A+ Certification Exam: Core 1 - Page 234

NEW QUESTION 56

- (Topic 1)

A user failed to gain access to a building's entrance after security measures at the entrance were upgraded last week. The company implemented the 13.56MHz frequency short band, and users can now utilize their mobile devices to authenticate. Which of the following has to be enabled for the mobile device to authenticate?

- A. Bluetooth
- B. Biometrics
- C. NFC
- D. PIN

Answer: C

Explanation:

NFC (Near Field Communication) is a technology used for short-range wireless communication between devices, typically used for contactless payments and authentication. In this scenario, the 13.56MHz frequency short band was implemented, and users can authenticate using their mobile devices, which requires NFC to be enabled on the device. References: CompTIA A+ Certification Exam Objectives 220-1001 - Mobile device network and device synchronization - 4.4

NEW QUESTION 58

- (Topic 1)

A technician identified an issue on a workstation, obtained details from the user, and made a backup of the system. Which of the following should the technician do NEXT?

- A. Determine the next steps to resolve the issue and document it.
- B. Design a plan of action to resolve the issue and implement the solution.
- C. Document the findings, actions, and outcomes.
- D. Establish a theory of probable cause, researching internally or externally as needed.

Answer: D

Explanation:

After the issue has been identified and the backup of the system has been made, the next step is to establish a theory of probable cause. This involves researching the issue to determine the root cause of the problem. This can involve researching internally (e.g. referring to the system logs) or externally (e.g. searching online). Once the probable cause has been identified, the technician can then move on to the next step of designing a plan of action to resolve the issue and implementing the solution.

NEW QUESTION 63

- (Topic 1)

A user's computer is not receiving a network connection. The technician confirms that the connection seems to be down and looks for the user's port on the patch panel. The port and patch panel are not labeled. Which of the following network tools should the technician use to identify the port?

- A. Network tap
- B. Punchdown tool
- C. Toner probe
- D. Crimper

Answer: C

Explanation:

Toner Probe Many cable testers also incorporate the function of a toner probe, which is used to identify a cable from within a bundle. This may be necessary when the cables have not been labeled properly. The tone generator is connected to the cable using an RJ45 jack and applies a continuous audio signal on the cable. The probe is used to detect the signal and follow the cable over ceilings and through ducts or identify it from within the rest of the bundle.

NEW QUESTION 64

- (Topic 1)

A developer is requesting permission to utilize client-side visualization. The developer would like to write code in a setting isolated from other infrastructure to avoid negative impacts of experimental code. Which of the following provides the BEST solution for the developer?

- A. Cross-platform functionality
- B. Software compatibility
- C. Test case development
- D. Sandbox environment

Answer: D

Explanation:

A sandbox environment is an isolated testing environment where code can be written and tested without impacting other infrastructure. This provides a safe and controlled environment for experimentation and development. References: CompTIA A+ Certification Exam Core 2 Exam Objectives - 5.5 Compare and contrast common workstation security best practices

NEW QUESTION 66

- (Topic 1)

An IT manager discovered that hundreds of pages of printed materials are being recycled each day because the materials are left on the printer tray instead of being picked up by users. Which of the following would BEST prevent this waste?

- A. Send friendly reminders to not print unnecessarily.
- B. Enable duplex printing to reduce paper utilization.
- C. Bill each department for the excess material cost.
- D. Require a code or badge before releasing a print job.

Answer: D

Explanation:

By requiring a code or badge before releasing a print job, it ensures that only authorized personnel can collect the printouts. This method is effective in preventing waste and in keeping sensitive documents confidential. Sending reminders, enabling duplex printing, and billing departments are useful strategies for reducing paper utilization but may not necessarily prevent waste caused by uncollected printouts.

Requiring a code or badge before releasing a print job is the best solution to prevent the waste of printed materials, as it ensures that only the user who initiated the print job is able to pick up the printed materials. This can be achieved by implementing print release software or requiring users to enter a PIN code at the printer. References: CompTIA A+ Certification Exam Objectives 1001, 2.10

NEW QUESTION 70

- (Topic 1)

Which of the following should the data center hardware technician implement to ensure maximum uptime for customers' virtual machines?

- A. Line conditioner
- B. AC voltage regulator
- C. Uninterruptible power supply
- D. Cloud storage backup

Answer: C

Explanation:

An uninterruptible power supply (UPS) can help ensure maximum uptime for customers' virtual machines by providing a backup power source in case of a power outage or other power-related issues. A line conditioner and AC voltage regulator are designed to stabilize the power supply, but do not provide backup power. Cloud storage backup is a way to backup data, but does not directly impact uptime. References: CompTIA A+ Certification Exam: Core 1 - Page 159

NEW QUESTION 73

- (Topic 1)

A technician is upgrading a faulty motherboard that was ordered by an end user for an old, high-end desktop computer. However, the technician is unable to install the CPU into the socket. Upon closer inspection, the technician notices the pins on the CPU do not line up with the socket. Which of the following would be the best course of action for the technician to take NEXT?

- A. Try to set as many pins as possible.
- B. Install an adaptor to create a universal socket.
- C. Verify the socket type and manufacturer.
- D. Find a compatible motherboard for the CPU.

Answer: C

Explanation:

In this situation, the best course of action for the technician to take NEXT would be C. Verify the socket type and manufacturer. If the pins on the CPU do not line up with the socket on the motherboard, it is likely that there is a compatibility issue between the two components. The technician should verify that the socket type and manufacturer of the motherboard match those of the CPU to ensure that they are compatible.

NEW QUESTION 74

- (Topic 1)

An online retailer wants to save money and is considering migrating to the public cloud so peak is over. Which of the following BEST describes this aspect of cloud computing?

- A. Rapid elasticity
- B. Metered utilization
- C. Shared resources
- D. High availability

Answer: A

Explanation:

Rapid elasticity is only suitable for a domain whose resource requirements suddenly up and down for a specific time interval. Referring to the question the online retailer wants to migrate to public cloud services during peak season, then wants it to be removed "automatically" when the peak is over.

NEW QUESTION 78

- (Topic 1)

In which of the following places is a laptop's wireless antenna MOST likely located?

- A. Near the network interface card
- B. Underneath the battery
- C. Integrated into the motherboard
- D. In the bezel of the lid

Answer: D

Explanation:

According to Dell Community, the Wi-Fi antenna is located in the top of the LCD display housing. It consists of two elements, fed by two cables, a white main designated on the Wi-Fi card by a white triangle, and a black auxiliary designated on the Wi-Fi card by a black triangle1.

NEW QUESTION 81

- (Topic 1)

Which of the following would an administrator use to migrate virtual machines from on premises to the cloud?

- A. IaaS
- B. SaaS
- C. DBaaS
- D. DRaaS

Answer: A

Explanation:

An administrator would use Infrastructure as a Service (IaaS) to migrate virtual machines from on-premises to the cloud. IaaS is a cloud computing service that provides virtualized computing resources, such as servers, storage, and networking, that can be used to deploy and run applications in the cloud. By using IaaS, an administrator can create a virtual machine in the cloud and migrate the existing virtual machine from on- premises to the cloud. References: CompTIA A+ Certification Exam: Core 1 - Objective 3.3

NEW QUESTION 83

- (Topic 1)

While implementing a non-carrier-grade wireless backhaul, a technician notices the current channel selection is extremely polluted with various RF signals. Upon performing a spectral analysis, the technician discovers a channel containing almost no RF pollution. Unfortunately, the technician is unable to select that channel. Which of the following is the MOST likely reason for this issue?

- A. The channel is reserved for licensed band use.
- B. The channel selection is defective; contact the manufacturer.
- C. The channel must be unlocked by the vendor.
- D. The device requires a firmware update to unlock the channel.

Answer:

A

Explanation:

The most likely reason that the technician is unable to select the channel with almost no RF pollution is that it is reserved for licensed band use. Some channels are reserved for specific purposes and require a license to use. These licensed bands are typically used for critical infrastructure, public safety, or military operations, and unlicensed devices are not allowed to use them. References: CompTIA A+ Certification Exam Objectives - 220-1001: 3.3 Compare and contrast common networking hardware devices.

NEW QUESTION 86

- (Topic 1)

A laptop's external webcam software is running, but it shows no image or video. Which of the following should a technician perform FIRST?

- A. Research new webcam firmware.
- B. Restart the computer and run system diagnostics.
- C. Reseat the webcam.
- D. Reinstall the webcam software and drivers.

Answer: C

Explanation:

<https://www.lifewire.com/fix-it-when-webcam-is-not-working-4588517>

If a laptop's external webcam software is running, but it shows no image or video, the first step the technician should perform is to reseat the webcam. Reseating the webcam involves disconnecting it from the motherboard and then reconnecting it. If this doesn't work, the technician should then check the webcam drivers or software. References: CompTIA A+ Certification All-in-One Exam Guide, Tenth Edition by Mike Meyers (Page 502)

NEW QUESTION 88

- (Topic 1)

A technician is upgrading a legacy wireless router for a home user. After installing the new router and configuring the SSID to be the same, none of the devices will connect to the network. Which of the following should the technician check NEXT?

- A. DHCP pool configuration
- B. MAC filtering list
- C. Wireless protocol settings
- D. DNS servers

Answer: B

Explanation:

The technician should check the MAC filtering list next as the new router may have a different MAC address than the old router. References: CompTIA A+ Certification Exam Guide, Exam 220-1001, Page 332

NEW QUESTION 92

- (Topic 1)

A technician is configuring a workstation to be used as a VM host. After installing the necessary software, the technician is unable to create any VMs. Which of the following actions should be performed?

- A. Disable the BIOS password.
- B. Enable TPM.
- C. Enable multithreading.
- D. Enable Fast Startup.

Answer: B

Explanation:

If you want to install Windows 11 on a virtual machine using Hyper-V, you will have to use a "Generation 2" VM and enable the "trusted platform module" (TPM) and Secure Boot options. Otherwise, the OS won't install.

Starting with Windows 11, Microsoft is changing the system requirement and making TPM 2.0 and Secure Boot a prerequisite to perform an in-place upgrade or clean install the new version on any device. This is in addition to the new 4GB of RAM and at least 64GB of storage.

quoted from here:

<https://pureinfotech.com/enable-tpm-secure-boot-hyperv-install-windows-11/> Furthermore, Multithreading is not a requirement for hyper-v hosting.

To create virtual machines on a workstation, the technician needs to enable Trusted Platform Module (TPM) in the system BIOS. TPM is a hardware-based security feature that helps protect the system from unauthorized access and tampering. It is required for many virtualization technologies, including Hyper-V, VirtualBox, and VMware. References: CompTIA A+ Certification Exam Objectives - 220-1002: 2.7 Explain the basics of virtualization.

NEW QUESTION 95

- (Topic 1)

Client-side virtualization guest machines have security requirements similar to physical machines, but they also need to ensure separation from other guest machines. Which of the following BEST describes this client-side guest security requirement?

- A. Isolation
- B. Authentication
- C. Hardening
- D. Authorization

Answer: A

Explanation:

Client-side virtualization guest machines require isolation from other guest machines to maintain their security. Isolation ensures that each virtual machine is separated from others and runs its own operating system and applications, making it less vulnerable to attacks from other guest machines. References: CompTIA

A+ Certification Exam Objectives 220-1002 - Virtualization and cloud computing - 4.1

NEW QUESTION 96

- (Topic 1)

Which of the following standards supports MIMO technology?

- A. 802.11a
- B. 802.11b
- C. 802.11g
- D. 802.11n

Answer: D

Explanation:

The 802.11n wireless networking standard supports Multiple Input Multiple Output (MIMO) technology. MIMO technology uses multiple antennas on both the transmitting and receiving devices to improve wireless performance by increasing the amount of data that can be transmitted simultaneously. 802.11a, 802.11b, and 802.11g do not support MIMO technology. References: CompTIA A+ Certification Exam: Core 1 - Objective 3.3

NEW QUESTION 100

- (Topic 1)

A technician needs to install a cost-effective storage device into a rackmount server that will be used as a VM host. This storage will be used for all VMs that run from the server. Which of the following should be used?

- A. Optical disk drive
- B. eMMC storage device
- C. 15,000rpm drive
- D. RAID 10 array

Answer: D

Explanation:

RAID 10 array is often used for server virtualization as it provides both redundancy and performance benefits. It uses a combination of mirroring and striping to provide both fault tolerance and improved I/O performance. An optical disk drive or eMMC storage device would not provide enough storage or performance for a VM host server, while a 15,000rpm drive may provide good performance but would not provide redundancy for fault tolerance. Therefore, a RAID 10 array is the best option for cost-effective storage that will be used for all VMs that run from the server.

NEW QUESTION 102

- (Topic 1)

A technician goes to a classroom to troubleshoot a projector that occasionally powers off.

The technician recreates the issue and notices the projector will not power back on until approximately 15 minutes have passed. After 15 minutes of being powered on, the projector shuts off again. Which of the following should the technician perform NEXT to resolve the issue?

- A. Clean the filter.
- B. Adjust the standby timeout.
- C. Check the power cable connection.
- D. Replace the bulb.

Answer: A

Explanation:

Based on the given information, it seems that the projector is experiencing issues with overheating or a faulty power supply. The fact that it shuts off and cannot be turned back on until it has cooled down for 15 minutes suggests that the projector is overheating or there is a problem with the power supply. Therefore, the next logical step would be to clean the filter to ensure proper ventilation and airflow, as a dirty filter can cause overheating.

NEW QUESTION 104

- (Topic 1)

A technician unboxed a new computer, plugged it in to a UPS, and connected the requested peripherals. The computer lights and fans turn on, but the technician hears three loud, consecutive beeps during boot. Which of the following actions will remediate the issue?

- A. Replacing the power supply
- B. Replacing the UPS
- C. Changing the CMOS battery
- D. Reseating the RAM

Answer: D

Explanation:

Three beeps indicate a "base memory read/write test error". Check out "beep codes" for more information.

https://en.wikipedia.org/wiki/Power-on_self-test#POST_beep_codes_on_CompTIA_A.2B_certification_exam

Reseating the RAM is the best course of action to remediate the issue of three consecutive beeps during boot, as it may indicate a RAM failure or loose connection. By reseating the RAM, the technician can ensure that the connection is secure and the computer should boot normally. References: CompTIA A+ Certification Exam Objectives 1001, 1.9

NEW QUESTION 109

- (Topic 2)

A technician is installing new power supplies for the application engineering team's workstations. The management team has not yet made a decision about installing dual graphics cards, but they want to proceed with the project anyway. Which of the following power supplies would provide the BEST solution?

- A. 1000W 24-pin modular power supply
- B. 220VAC 9000J surge protector
- C. 500W redundant power supply
- D. 2000VA uninterruptible power supply

Answer: A

Explanation:

A 1000W 24-pin modular power supply provides enough power to support a dual graphics card configuration, which requires a significant amount of power. A modular power supply allows the technician to connect only the cables that are necessary for the current configuration, reducing cable clutter and improving airflow inside the case. This makes it easier to install and maintain the power supply.

NEW QUESTION 111

- (Topic 2)

A technician is implementing a SOHO wireless solution with three access points. Which of the following actions would avoid high latency?

- A. Enabling and configuring a 5GHz antenna
- B. Configuring separate IP ranges
- C. Enabling multiple SSIDs
- D. Configuring all devices with different channels

Answer: D

Explanation:

If a technician is implementing a SOHO wireless solution with three access points and wants to avoid high latency, the technician should configure all devices with different channels. By configuring all devices with different channels, the technician can ensure that the wireless signals from each access point do not interfere with each other, which can cause high latency.

NEW QUESTION 114

- (Topic 2)

A technician just finished assembling a new PC for a client. Upon POST, the device presents an unspecified beep code and turns off automatically after five seconds. The technician double-checks the bill of materials for the new build and confirms all items have been installed. Which of the following should the technician do NEXT?

- A. Ensure thermal paste is being used on the CPU.
- B. Check to make sure that any video cards have auxiliary power cabling connected.
- C. Verify the header panel connector is properly connected.
- D. Spot-check that the I/O shield for the motherboard is properly installed.

Answer: C

Explanation:

The technician should verify the header panel connector is properly connected. A beep code is a diagnostic tool used by motherboards to indicate issues with hardware components. This beep code may be indicating an issue with the connection between the motherboard and the case's header panel connector. This connector is responsible for providing power to the system and any connected peripherals. Therefore, the technician should verify the connection is secure and properly connected before attempting any other troubleshooting steps.

NEW QUESTION 119

- (Topic 2)

A technical lead wants to migrate all common business applications, including email and fileshares, to the cloud. Which of the following cloud concepts should be used?

- A. MaaS
- B. PaaS
- C. SaaS
- D. IaaS

Answer: C

Explanation:

The cloud concept that should be used for migrating all common business applications, including email and fileshares, to the cloud is Software as a Service (SaaS).

NEW QUESTION 123

- (Topic 2)

A technician is diagnosing a workstation that shuts down unexpectedly during a butn-in test. Which of the following is the MOST likely cause for this symptom?

- A. Faulty CMOS battery
- B. OS update issue
- C. Overheating
- D. Faulty RAM

Answer: C

Explanation:

If a workstation shuts down unexpectedly during a burn-in test, overheating is the most likely cause. This is because a burn-in test is designed to stress the components of the workstation, which can generate a lot of heat. Therefore, overheating is the correct answer. References: CompTIA A+ Certification Exam Guide, Ninth Edition, page 120

NEW QUESTION 124

- (Topic 2)

A home user has purchased a subscription for a service that blocks malicious sites by preventing them from resolving correctly. Which of the following settings MOST likely needs to be changed on the user's router to enable this functionality?

- A. DNS server
- B. Port forwarding
- C. Perimeter network
- D. Universal PnP
- E. DHCP server

Answer: A

Explanation:

The Domain Name System (DNS) is responsible for translating domain names into IP addresses. By blocking malicious sites from resolving correctly, the DNS server is able to prevent the user from accessing those sites. Therefore, the DNS server setting on the user's router needs to be changed to enable this functionality.

NEW QUESTION 127

- (Topic 2)

Which of the following wireless technologies has the MOST range and wireless throughput?

- A. 802.11ac
- B. 802.11ax
- C. 802.11b/g/n
- D. 802.11g

Answer: B

Explanation:

802.11ax, also known as Wi-Fi 6, has the longest range and the highest wireless throughput of all the wireless technologies listed. References: CompTIA A+ Certification Exam Guide, 220-1001, Chapter 3

NEW QUESTION 128

- (Topic 2)

A user that works in sales is reporting that the output on each page printed from a laser has duplicate images. Which of the following should be performed FIRST to eliminate the ghost images?

- A. Change the paper weight setting.
- B. Replace the printer's fuser.
- C. Upgrade the printer firmware.
- D. Clean the toner drums and rollers

Answer: D

Explanation:

If a laser printer is producing output with duplicate images (also known as ghost images), it could be due to an issue with the toner drums and rollers. The first step to eliminate the ghost images would be to clean the toner drums and rollers to remove any excess toner that may be causing the issue. Ghost images are a common issue in laser printers where an image or text from a previous page appears faintly on subsequent pages. The cause of this issue is usually due to toner residue on the drum or rollers, which can be removed by cleaning the toner drums and rollers. References: Study Guide Section 4.6 - Printer technologies

NEW QUESTION 131

- (Topic 2)

To control costs a company provides a limited number of users with company phones. One of these users opens a support ticket because the phone no longer allows internet browsing over a cellular connection. The user acknowledges that the phone worked before the user's child streamed several movies using the device. Which of the following describes why the phone cannot browse the Internet?

- A. The child accidentally connected to a neighbor's WLAN
- B. The company's group policy disabled the device
- C. The device has a data cap and has reached that limit
- D. The device's plan has been unpaid

Answer: C

Explanation:

It is common for companies to place a data cap on the devices they provide to their employees, to control costs. If a user has exceeded the data cap, the phone may no longer allow internet browsing over a cellular connection. This is usually because the cellular data usage has exceeded the allotted amount for the particular plan the device is on, and the service provider has temporarily suspended the data connection.

It is unlikely that the child accidentally connected to a neighbor's WLAN because this would not affect the cellular data connection. Similarly, it is unlikely that the company's group policy has disabled the device, as this would likely affect all devices under the same policy. If the device's plan has been unpaid, the service provider would likely temporarily suspend all services, not just the cellular data connection.

Reference: CompTIA A+ Core 1 Exam Guide, page 329.

NEW QUESTION 134

- (Topic 2)

Which of the following commonly uses NFC?

- A. Contactless payments
- B. IoT devices
- C. Inventory tracking
- D. Tethering

Answer: A

Explanation:

NFC (Near Field Communication) is a wireless communication technology that is commonly used for contactless payments, mobile payments, and other mobile transactions. It allows two devices to communicate with each other when they are placed in close proximity.

Contactless payments commonly use NFC (Near Field Communication). NFC is a wireless communication technology that allows two devices to communicate with each other when they are in close proximity. Contactless payments use NFC to enable customers to make payments by simply tapping their contactless card or mobile device on a payment terminal.

NEW QUESTION 138

- (Topic 2)

Which of the following are default ports for HTTP and HTTPS traffic? (Select TWO).

- A. 23
- B. 25
- C. 80
- D. 143
- E. 389
- F. 443

Answer: CF

NEW QUESTION 143

- (Topic 2)

A technician is tasked with upgrading a laptop's RAM. Which of the following steps should the technician take FIRST?

- A. Confirm that both the current and new memory are from the same brand.
- B. Run a diagnostic test on the current memory.
- C. Verify the memory requirements of the motherboard.
- D. Connect an electrostatic discharge strap.

Answer: C

Explanation:

If a technician is tasked with upgrading a laptop's RAM, the technician should verify the memory requirements of the motherboard first. The motherboard of the laptop will have specific requirements for the type and amount of RAM that can be installed. By verifying the memory requirements of the motherboard, the technician can ensure that the new RAM is compatible with the laptop.

Before upgrading a laptop's RAM, a technician should verify the memory requirements of the motherboard to ensure the new RAM is compatible. The type, speed, and maximum capacity of the RAM should be checked to ensure it meets the requirements of the motherboard. References: CompTIA A+ Certification Exam Guide, pg. 347-348

NEW QUESTION 147

- (Topic 2)

Which of the following network services allows a networked device to always be assigned the same IP address based on the device's MAC address?

- A. DHCP
- B. LDAP
- C. UTM
- D. DNS

Answer: A

Explanation:

Dynamic Host Configuration Protocol (DHCP) allows a networked device to always be assigned the same IP address based on the device's MAC address. DHCP can also assign other network configuration settings to devices automatically.

NEW QUESTION 148

- (Topic 2)

Which of the following options provides correct information about 2.4GHz and 5GHz wireless frequencies? (Select TWO)

- A. 2.4GHz has less interference
- B. 5GHz transmits in lower speed.
- C. 2.4GHz penetrates solid objects more effectively
- D. 5GHz provides faster data connections.
- E. 2.4GHz has a higher data rate
- F. 5GHz has 23 channels.
- G. 2.4GHz has 11 channels
- H. 5GHz has no data interference.
- I. 2.4GHz has a higher coverage area
- J. 5GHz has higher bandwidth.
- K. 2.4GHz has a higher bandwidth
- L. 5GHz has lower transmit power.

Answer: BE

Explanation:

The correct answers are B. 2.4GHz penetrates solid objects more effectively. 5GHz provides faster data connections and E. 2.4GHz has a higher coverage area. 5GHz has higher bandwidth. The 2.4GHz frequency has a lower data rate compared to 5GHz, but it can penetrate solid objects more effectively and has a higher coverage area. The 5GHz frequency, on the other hand, provides faster data connections and has higher bandwidth, but it has fewer channels and lower transmit power.

NEW QUESTION 149

- (Topic 2)

A user reports limited or no connectivity on a laptop. A technician runs ipconf ig /all with the following result:

```
IPv4 connectivity...limited or none
IPv4 address...169.254.254.1
subnet mask...255.255.0.0
default gateway...
```

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

- A. DHCP failure
- B. ARP cache
- C. DNS resolution
- D. Duplicate IP address

Answer: A

NEW QUESTION 153

- (Topic 2)

A technician is preparing to set up a gaming computer with the following components:

- ? Discrete, high-end graphics card
- ? Video capture card
- ? High-end processor
- ? Multiple hard drives
- ? USB 3.0 hub
- ? Sound card

Which of the following options is the MOST important for the technician to consider before building the gaming computer?

- A. Redundant power supply
- B. Modular power supply
- C. 20-pin v
- D. 24-pin power adapter
- E. Power supply wattage rating

Answer: D

Explanation:

This is because high-end graphics cards, processors, and multiple hard drives require a significant amount of power to operate. A power supply with insufficient wattage could cause stability issues or even damage the components.

The CompTIA A+ Core1 certification guide emphasizes the importance of selecting an appropriate power supply for a computer build. In addition to wattage, other factors to consider when selecting a power supply include efficiency, modularity, and the number and type of connectors required to power the components.

However, of the options listed, the wattage rating is the most critical consideration.

Therefore, the technician should ensure that the power supply they select has a wattage rating that is sufficient to power all the components in the gaming computer. It is always a good practice to select a power supply with a wattage rating that exceeds the estimated power usage of t

NEW QUESTION 156

- (Topic 2)

A user sends a print job to a network printer, and the print job uses double the amount of paper as expected. Which of the following should the user configure to get the expected result?

- A. Duplex
- B. Collate
- C. Landscape
- D. Transparency

Answer: A

Explanation:

The user should configure the print job to use the Duplex option, which will print on both sides of the paper and reduce the amount of paper used.

NEW QUESTION 159

- (Topic 2)

A technician is setting up a laptop with an encrypted hard drive. The laptop will securely store a PIN that the user will input at log-on. Which of the following must be installed to set up this configuration?

- A. TPM
- B. HSM

- C. UEFI
- D. ARM

Answer: A

Explanation:

TPM stands for Trusted Platform Module, and it is a special chip installed on a computer's motherboard that stores encryption keys, passwords, and digital certificates. It can also securely store a user's PIN, allowing them to access the laptop without having to enter the PIN every time they log on. TPM is a secure way to store and protect sensitive data, making it ideal for use in laptops that need to securely store a PIN.

NEW QUESTION 161

- (Topic 2)

A technician installed a new router at a small office. After the Installation, the technician notices that all devices have a 169.254.x.x IP address. Printers and fileshares are still working, but PCs cannot access the Internet. Which of the following should the technician configure on the router to enable devices to connect to the internet?

- A. APIPA
- B. DNS
- C. DHCP
- D. SMB

Answer: C

Explanation:

To enable devices to connect to the internet after installing a new router at a small office, the technician should configure DHCP (Dynamic Host Configuration Protocol) on the router. DHCP is a network protocol that automatically assigns IP addresses and other network configuration parameters to devices on a network. By configuring DHCP on the router, the technician can ensure that all devices on the network are assigned a valid IP address that allows them to connect to the internet.

If all devices have a 169.254.x.x IP address, this suggests that the router is not assigning IP addresses to the devices using DHCP (Dynamic Host Configuration Protocol). Configuring the DHCP settings on the router can enable the devices to receive IP addresses automatically and access the internet. References: CompTIA A+ Certification All-in-One Exam Guide, Tenth Edition, Chapter 14

NEW QUESTION 162

- (Topic 2)

A user wants a second monitor installed on a laptop. The VGA/DVI or HDMI cables have already been connected. Which of the following should the technician do to configure the laptop to show both screens?

- A. Power cycle the laptop.
- B. Plug in the monitor to the USB port.
- C. Adjust the monitor display settings.
- D. Power cycle the monitor.

Answer: C

Explanation:

To configure the laptop to show both screens, the technician should adjust the monitor display settings. On Windows 10 or 11, the technician can select the Start menu, then open Settings, then select Display. The PC should automatically detect the monitors and show the desktop. If the monitors are not detected, the technician can select Multiple displays, then Detect. The technician can then use the dropdown list next to the image of the desktop to choose how the screen will project across the displays.

NEW QUESTION 166

- (Topic 2)

Which of the following is the MAXIMUM power PoE+ provides?

- A. 15.4W
- B. 30W
- C. 60W
- D. 95W

Answer: B

Explanation:

The earliest PoE switches from a few years ago generated 15 Watts per port (IEEE 802.3af). Today, most use the PoE+ standard (IEEE 802.3at), which generates up to 30 Watts per port. That's plenty for most devices that people want to connect

NEW QUESTION 170

- (Topic 2)

A technician is troubleshooting an old desktop system that randomly shows a Windows BSOD or powers off unexpectedly. All system temperatures are within normal limits. Which of the following should the technician do NEXT?

- A. Visually inspect the motherboard capacitors.
- B. Verify all case fans are operational.
- C. Check that the BIOS version supports the installed CPU.
- D. Compare the software requirements with the installed RAM.

Answer: A

Explanation:

BSoDs can be caused by poorly written device drivers or malfunctioning hardware, such as faulty memory, power supply issues, overheating of components, or hardware running beyond its specification limits. In the Windows 9x era, incompatible DLLs or bugs in the operating system kernel could also cause BSoDs.

NEW QUESTION 175

- (Topic 2)

A technician receives a ticket that states a mobile payment device is having issues with its contactless payment feature. The device is not detecting payment options. Which of the following is the MOST likely cause of the issue?

- A. NFC
- B. Bluetooth
- C. Wi-Fi
- D. Lightning adapter

Answer: A

Explanation:

NFC (Near Field Communication) is the technology used for contactless payment features on mobile payment devices. If a mobile payment device is having issues with its contactless payment feature and is not detecting payment options, it is most likely due to an issue with the NFC functionality of the device. The contactless payment feature on a mobile payment device uses NFC (Near Field Communication) to detect payment options. If the device is not detecting payment options, the issue may be related to a problem with the NFC feature. References: <https://www.techopedia.com/definition/31790/near-field-communication-nfc>

NEW QUESTION 180

- (Topic 3)

A technician responds to a user who has reported that a laptop is too hot. The technician notices the laptop is not able to sit level on the workspace. What of the following BEST describes the issue with the laptop?

- A. The docking station is improperly installed.
- B. The hard drive is disconnected.
- C. The CPU fan is too powerful.
- D. The battery is damaged.

Answer: D

Explanation:

A damaged battery can cause a laptop to overheat and swell, making it unable to sit level on the workspace. A swollen battery can also pose a fire hazard and damage other components of the laptop, such as the motherboard or keyboard. The technician should replace the battery as soon as possible and dispose of it properly according to local regulations. Reference: <https://partners.comptia.org/docs/default-source/resources/a-core-series-combined-content-guide> (page 25)

NEW QUESTION 181

- (Topic 3)

A help desk technician plugged in a user's new computer to a network port. After a few minutes the computer showed an APIPA address. Which of the following is the MOST likely reason this happened?

- A. The WLAN is disabling the NIC card.
- B. The network cable is not attached.
- C. The PC is unable to contact a DHCP server.
- D. The DHCP server is using addresses in the range of 169.254.254.1.

Answer: C

Explanation:

The most likely reason for a computer showing an APIPA address after being plugged into a network port is that the PC is unable to contact a DHCP server. Automatic Private IP Addressing (APIPA) is a DHCP fail-safe that protects a computer system from failure. It invokes a standby mechanism for local Internet Protocol version 4 (IPv4) networks supported by Microsoft Windows. With APIPA, DHCP clients can obtain IP addresses even when DHCP servers are not functional. The other options are less likely to be the cause of the issue.

NEW QUESTION 185

- (Topic 3)

Which of the following wireless technologies is used by mobile devices to process payments at kiosks?

- A. Wi-Fi 6
- B. Bluetooth
- C. NFC
- D. RFID

Answer: C

Explanation:

NFC stands for near-field communication, which is a wireless technology that allows two devices to exchange data when they are in close proximity (usually within a few centimeters). NFC is commonly used by mobile devices to process payments at kiosks, such as Apple Pay or Google Pay. Wi-Fi 6 is a wireless standard that provides faster speed and lower latency than previous versions of Wi-Fi. Bluetooth is a wireless technology that allows devices to communicate over short distances (usually within 10 meters). RFID stands for radio-frequency identification, which is a wireless technology that uses radio waves to identify and track objects that have RFID tags attached to them.

NEW QUESTION 187

- (Topic 3)

A technician recently received a written warning for causing a system-wide outage. The outage was a result of an unscheduled patch being manually pushed.

during production hours. Which of the following could have MOST likely prevented the technician from receiving the warning?

- A. Following corporate procedures
- B. Testing before deployment
- C. Documenting the findings
- D. Establishing a plan of action

Answer: A

Explanation:

Following corporate procedures would have been the most likely factor that could have prevented the technician from receiving the written warning. Following established procedures, such as change management, helps ensure that changes made to the production environment are thoroughly tested, approved, and implemented in a controlled and safe manner, reducing the risk of system-wide outages and other unintended consequences.

NEW QUESTION 191

- (Topic 3)

Which of the following network options would work BEST to ensure a client-side virtual machine cannot access the rest of the network?

- A. NAT mode
- B. Bridge mode
- C. Direct mode
- D. Host-only mode

Answer: D

Explanation:

Host-only mode is a network option that isolates a client-side virtual machine from the rest of the network. It allows the virtual machine to communicate only with the host machine and other virtual machines on the same host. NAT mode allows the virtual machine to share the host's IP address and access the network through it. Bridge mode allows the virtual machine to have its own IP address and connect directly to the network. Direct mode is not a valid network option for virtual machines.

NEW QUESTION 196

- (Topic 3)

A technician who works in a high-security environment needs to set up a laptop with triple monitors for a new security employee. All USB ports are disabled due to security policies. Which of the following should the technician do to BEST meet the requirements?

- A. Install a splitter cable
- B. Install a discrete graphics card.
- C. use an HDMI switch.
- D. Implement a docking station.

Answer: D

Explanation:

This is because a docking station can connect multiple monitors to a laptop without using USB ports, which are disabled in this scenario. A splitter cable would only allow two monitors to be connected, not three. A discrete graphics card would require opening the laptop and installing hardware, which may not be feasible or allowed in a high-security environment. An HDMI switch would only allow one monitor to be active at a time, not all three simultaneously.

NEW QUESTION 198

- (Topic 3)

New memory modules were installed in several Windows desktops but some users are still reporting performance issues. Upon investigation, a systems administrator notices the desktop has not recognized the new memory modules. Which of the following should the systems administrator perform to help resolve this issue?

- A. Configure appropriate settings within the BIOS
- B. Replace the RAM
- C. Modify the boot.ini file.
- D. Install the required drivers through the Control Panel

Answer: A

Explanation:

To resolve the issue of new memory modules not being recognized, the systems administrator should configure appropriate settings within the BIOS. This can include enabling memory mapping or setting memory speed and timings. References: CompTIA A+ Certification Exam Objectives, 220-1001 Section 1.8 Configure appropriate settings within the BIOS. If new memory modules were installed in several Windows desktops but some users are still reporting performance issues and the desktop has not recognized the new memory modules, the systems administrator should configure appropriate settings within the BIOS to help resolve this issue.

NEW QUESTION 199

- (Topic 3)

A user's Windows computer started running slowly after the installation of a CAD program. The computer has intermittent timeouts and often has to be rebooted to restore functionality. The computer seems to work correctly if the application is not running. Which of the following should the technician do NEXT to help troubleshoot the issue? (Select TWO).

- A. Replace the video card.
- B. Research the requirements of the application.
- C. Install a new case fan.
- D. Run chkdsk on the HDD.

- E. Check the Event Viewer logs.
- F. Reinstall the application.

Answer: BE

Explanation:

The technician should research the requirements of the CAD program to see if the computer meets them or needs any upgrades or updates to run it properly. The technician should also check the Event Viewer logs to see if there are any errors or warnings related to the application or system performance that could indicate the cause of the problem or suggest a solution. Reference: <https://www.comptia.org/training/books/a-core-1-220-1101-study-guide> (pages 43, 47)

NEW QUESTION 201

- (Topic 3)

Which of the following connectors can be plugged into a Thunderbolt 3 port on a laptop?

- A. miniUSB
- B. microUS3
- C. USB-A
- D. USB-C

Answer: C

Explanation:

Thunderbolt 3 is a USB-C port, so any device with a USB-C connector can be plugged into it. MiniUSB, microUSB and USB-A are not compatible with Thunderbolt 3.

NEW QUESTION 203

- (Topic 3)

An end user needs to upgrade the hard drive on a laptop and wants one that is fast and shock resistant. Which of the following is the BEST option for this end user?

- A. Hybrid HHD/SSD
- B. 5,400rpm HDD
- C. 7,200rpm HDD
- D. NVMe SDD

Answer: D

Explanation:

A non-volatile memory express (NVMe) solid state drive (SSD) is the best option for an end user who wants to upgrade the hard drive on a laptop and wants one that is fast and shock resistant. NVMe SSDs use flash memory and PCIe interface to achieve high performance and low latency. SSDs are also more shock resistant than hard disk drives (HDDs) because they have no moving parts. Hybrid HDD/SSD combines both technologies but does not offer the same speed or capacity as pure SSDs. A 5,400rpm HDD or a 7,200rpm HDD are slower and less shock resistant than SSDs

NEW QUESTION 204

- (Topic 3)

A technician is preparing laptops for deployment to a medical department. The laptops require SSD-level encryption to be enabled, but BitLocker refuses to turn it on. An error message states that a BIOS-level setting has not been turned on. Which of the following should the technician check FIRST when troubleshooting this issue?

- A. Recorder the priority in Widows Boot Manager.
- B. Check to make sure Secure Boot is turned on.
- C. Ensure that the Trusted Platform Module enabled.
- D. Verify that the latest updates are installed.

Answer: C

Explanation:

The Trusted Platform Module (TPM) is a hardware component that provides cryptographic functions and secure storage for encryption keys, passwords, and certificates. BitLocker requires a TPM to be enabled and activated in the BIOS or UEFI settings of the laptop in order to use SSD-level encryption. The technician should check that the TPM is enabled and activated before trying to turn on BitLocker. Reference: <https://partners.comptia.org/docs/default-source/resources/a-core-series-combined-content-guide> (page 34)

NEW QUESTION 206

- (Topic 3)

A user reports that a computer has a virus on it. Which of the following is the FIRST step the technician should take?

- A. Determine a plan of action to resolve the problem.
- B. Run antivirus software to remove the virus from the computer.
- C. Ask the user about the symptoms the computer is experiencing.
- D. Make a backup of the user's data on an external drive.

Answer: C

Explanation:

Asking the user about the symptoms the computer is experiencing is the first step the technician should take when a user reports that a computer has a virus on it. This step helps the technician to gather information and identify the problem before determining a plan of action to resolve it. Running antivirus software, making a backup of the user's data, or determining a plan of action are not the first steps, but possible actions that can be taken after identifying the problem.

NEW QUESTION 211

- (Topic 3)

A technician is on site troubleshooting a customer's laptop. The technician needs to download a software update but the company's proxy is blocking updates. Which of the following would be the MOST appropriate action for the technician to take to get the update?

- A. Connect to a hotspot
- B. Request a traffic exemption.
- C. Change the DNS address to 1.1.1.1
- D. Update the Group Policy settings

Answer: B

Explanation:

If a technician is on site troubleshooting a customer's laptop and needs to download a software update but the company's proxy is blocking updates, the most appropriate action for the technician to take would be to request a traffic exemption from the company's IT department.

NEW QUESTION 213

- (Topic 3)

A printer technician receives a support request for a laser printer that sometimes cuts off the bottom of the print job. During troubleshooting the technician notices that affected jobs are set for 8.5in x 14in (216mm x 356mm) paper and only print from a particular paper tray. Which of the following actions should the technician perform NEXT?

- A. Verify that the printing trays are correctly set.
- B. Swap printer trays until the print jobs complete as expected.
- C. Replace the tray rollers to ensure proper alignment.
- D. Reset the default to use 8.5in x 11in (216mm x 279mm) paper

Answer: A

Explanation:

Reference: <https://partners.comptia.org/docs/default-source/resources/a-core-1-content-guide> (page 16)

NEW QUESTION 214

- (Topic 3)

A user reports that all print jobs sent to a laser printer have random and incorrect characters throughout the pages. Which of the following actions should the technician do to resolve this issue?

- A. Replace the fuser.
- B. Adjust the rollers.
- C. Update the driver.
- D. Shake the toner

Answer: C

Explanation:

One of the possible causes of random and incorrect characters appearing on print jobs sent to a laser printer is an outdated or corrupted driver. The driver is a software component that communicates between the operating system and the printer, and converts data into a format that the printer can understand. If the driver is outdated or corrupted, it may send incorrect or garbled data to the printer, resulting in poor print quality or errors. The technician should update the driver to the latest version from the manufacturer's website, or uninstall and reinstall it if necessary. Reference: <https://www.comptia.org/training/books/a-core-1-220-1101-study-guide> (page 47)

NEW QUESTION 215

- (Topic 3)

A field technician for an airport receives a support ticket that states customers are having issues viewing a screen that displays information about departing flights. While checking the case history, the technician sees that all flight information screens were recently moved when the terminal gates were remodeled. Which of the following actions should the technician perform after verifying the screen has power?

- A. Ensure the input connections to the screen are secure.
- B. Swap cables with a screen that works.
- C. Check to see if the device outputting the data is turned on.
- D. Determine if the screen is compatible with the output device.

Answer: A

Explanation:

The technician should ensure the input connections to the screen are secure 1. The screen may not be receiving the signal from the device outputting the data if the input connections are not secure1. Swapping cables with a screen that works is not likely to be the correct option1

NEW QUESTION 218

- (Topic 3)

A service technician replaced the gateway, and a user is now unable to access the SOHO wireless network. Which of the following steps should the technician take to resolve the issue?

- A. Assess the network cables for damage.
- B. Disable Bluetooth connections.
- C. Update the firmware.
- D. Check if the password and SSID are correct

Answer:

D

Explanation:

Checking if the password and SSID are correct is the best step that the technician should take to resolve the issue of a user being unable to access the SOHO wireless network after replacing the gateway. The new gateway may have a different password and SSID than the old one, which would prevent the user from connecting to the wireless network. The technician should verify that the user has entered the correct password and SSID for the new gateway. Assessing the network cables for damage, disabling Bluetooth connections, or updating the firmware are not likely to solve the issue, as they are not related to the wireless network authentication

NEW QUESTION 221

- (Topic 3)

A user's laptop is experiencing severe slowdowns when operating process-intensive tasks. Which of the following memory upgrades is compatible with a laptop?

- A. DIMM
- B. ECC RAM
- C. Virtual RAM
- D. SODIMM

Answer: D

Explanation:

SODIMM stands for Small Outline Dual In-line Memory Module and is a type of memory module that is compatible with laptops and other small devices. SODIMMs are smaller and thinner than DIMMs (Dual In-line Memory Modules), which are typically used for desktop PCs and servers. Upgrading or adding SODIMMs can increase the amount of RAM available for a laptop, which can improve its performance and speed when running process-intensive tasks. Reference: <https://partners.comptia.org/docs/default-source/resources/a-core-series-combined-content-guide> (page 24)

NEW QUESTION 224

- (Topic 3)

The GPS on a user's phone has been unreliable. Which of the following will MOST likely resolve the issue?

- A. Enabling high-accuracy mode
- B. Replacing the battery
- C. Disabling Wi-Fi connections
- D. Utilizing a third-party map application

Answer: A

Explanation:

Enabling high-accuracy mode is the most likely action to resolve the issue of unreliable GPS on a user's phone. High-accuracy mode uses multiple sources of location data, such as Wi-Fi, cellular networks, and Bluetooth, to improve the accuracy and reliability of GPS. Replacing the battery, disabling Wi-Fi connections, or utilizing a third-party map application are unlikely to fix the GPS issue, as they are not directly related to the GPS function

NEW QUESTION 227

- (Topic 3)

Which of the following does a DHCP reservation MOST likely apply to?

- A. Smart TV
- B. Mobile device
- C. Workstation
- D. Printer

Answer: D

Explanation:

A DHCP reservation is a feature that allows a DHCP server to assign a specific IP address to a specific device on a network, based on its MAC address. This ensures that the device always receives the same IP address, even if it is disconnected or rebooted. A DHCP reservation is most likely applied to a printer, as it can make it easier for users to find and connect to the printer on the network, without having to change the printer settings or deal with IP address conflicts. Reference: <https://www.comptia.org/training/books/a-core-1-220-1101-study-guide> (page 84)

NEW QUESTION 229

- (Topic 3)

Which of the following network devices operates as a bridge function?

- A. Hub
- B. Wireless access point
- C. Transceiver
- D. Media converter

Answer: D

Explanation:

A media converter is a network device that operates as a bridge function, which means it connects two different types of network media, such as copper and fiber optic cables, and converts signals between them. This allows network devices that use different media types to communicate with each other over long distances or in different environments, without requiring major changes or upgrades to the existing network infrastructure. Reference: <https://www.comptia.org/training/books/a-core-1-220-1101-study-guide> (page 73)

NEW QUESTION 230

- (Topic 3)

A desktop support technician receives an escalated ticket regarding a computer that displays the following message upon booting up: The amount of system memory has changed. Which of the following components is failing?

- A. GPU
- B. HDD
- C. RAM
- D. CPU

Answer: C

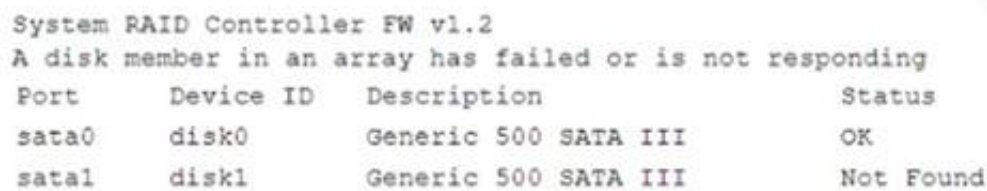
Explanation:

The message "The amount of system memory has changed" indicates that there is a problem with the random access memory (RAM) modules in the computer. The RAM may be loose, faulty, or incompatible with the motherboard or other components. The GPU, HDD, and CPU are not directly related to system memory and would not cause this message to appear.

NEW QUESTION 234

- (Topic 3)

A user receives the following error when trying to reboot a computer:



```
System RAID Controller FW v1.2
A disk member in an array has failed or is not responding
Port      Device ID  Description              Status
sata0     disk0      Generic 500 SATA III     OK
sata1     disk1      Generic 500 SATA III     Not Found
```

Which of the following is the MOST likely cause of this error message?

- A. Corrupted bootloader
- B. Faulty RAID controller
- C. Failed hard drive
- D. Incorrect storage device driver

Answer: C

Explanation:

The error message "Reboot and Select Proper Boot Device" indicates that the computer cannot find the boot device that contains the operating system¹². This can happen if the hard drive that stores the operating system is damaged or failed, and the BIOS cannot detect it or read from it²³. A failed hard drive can also cause other symptoms such as clicking noises, corrupted files, or slow performance⁴.

NEW QUESTION 238

- (Topic 3)

A business purchased a new multifunction printer that will be used to photocopy documents with hundreds of pages. A technician is configuring the printer. Which of the following features should the technician ensure is set up?

- A. SMB
- B. PCL
- C. ADF
- D. SSH

Answer: C

Explanation:

Automatic document feeder (ADF) is a feature that allows a multifunction printer to photocopy documents with hundreds of pages automatically without requiring manual intervention. ADF scans multiple pages from a stack of documents and feeds them into the printer one by one. SMB is a network protocol that allows file sharing and printer access among different devices on a network. PCL is a printer language that controls how data is formatted for printing. SSH is a network protocol that allows secure remote access to another device over an encrypted connection.

NEW QUESTION 241

- (Topic 3)

A customer brings a phone to a repair shop because it is experiencing extreme slowness and applications are crashing. A technician attempts to install a diagnostic application, but the installation fails. Which of the following should the technician do FIRST to troubleshoot the issue?

- A. Check the storage space.
- B. Inspect the screen for damage.
- C. Install the latest updates.
- D. Recalibrate the digitizer.

Answer: A

Explanation:

One of the possible causes of extreme slowness and application crashes on a phone is low or insufficient storage space. This can affect the performance and functionality of the phone, as well as prevent new applications from being installed or updated. The technician should check the storage space on the phone and see if there is enough free space available for the diagnostic application and other operations. The technician should also advise the customer to delete or move any unnecessary or unused files, apps, or data from the phone to free up some space. Reference: <https://partners.comptia.org/docs/default-source/resources/a-core-1-content-guide> (page 10)

NEW QUESTION 244

- (Topic 3)

An insurance company wants to implement cloud computing and would like a cloud solution in which the infrastructure is shared with businesses in the same industry. Which of the following cloud models BEST addresses the company's need?

- A. Community
- B. Private
- C. Public
- D. Hybrid

Answer: A

Explanation:

The cloud model that BEST addresses the company's need is the Community cloud model. A community cloud is a cloud infrastructure in which multiple organizations share resources and services based on common operational and regulatory requirements. The concept of a community cloud is akin to a community garden, where different individuals grow produce on a single piece of shared land¹.

NEW QUESTION 246

- (Topic 3)

Every time a user sends a print job, the user must walk over to the printer and press OK before the job will print. The same issue is occurring for multiple users. Which of the following is the MOST likely cause of the issue?

- A. The wrong network printer queue is being used.
- B. The network printer is on the wrong VLAN.
- C. A The default paper type has been changed.
- D. The print server has outdated print drivers.

Answer: C

Explanation:

The message prompting to press "OK" indicates that the printer is waiting for a user input. This suggests that there is some issue with the printer settings, and the most probable cause is that the default paper type has been changed, and the printer needs the user to confirm the paper type before proceeding with the print job. This is a common issue that can occur when the default paper type is not set correctly or has been changed without the user's knowledge.

NEW QUESTION 251

- (Topic 3)

Which of the following components houses the MX record?

- A. DNSO
- B. VLAN
- C. DHCP
- D. SMTP

Answer: A

Explanation:

The domain name system (DNS) is the component that houses the MX record. The MX record is a type of DNS record that specifies which mail server is responsible for receiving email messages for a domain name. VLAN is an acronym for virtual local area network, which is a logical subdivision of a network that allows devices to communicate as if they were on the same physical segment. DHCP is an acronym for dynamic host configuration protocol, which is a network protocol that assigns IP addresses and other configuration parameters to devices on a network automatically. SMTP is an acronym for simple mail transfer protocol, which is a network protocol that allows sending and receiving email messages over TCP/IP networks

NEW QUESTION 256

- (Topic 3)

A technician is troubleshooting an issue involving lines appearing down copied pages, but printed pages sent directly to the copier render as intended. Which of the following is the MOST likely cause of this issue?

- A. Empty imager drum
- B. Overheated system fuser
- C. Scratched scanner glass
- D. Third-party toner

Answer: C

Explanation:

If lines appear down copied pages but printed pages sent directly to copier render as intended, it could be due to scratched scanner glass which can cause lines or streaks on copied pages.

If there are lines appearing on copied pages, but not on printed pages sent directly to the copier, the issue is most likely caused by a scratch on the scanner glass.

References: <https://www.pacificoffice.com/how-to-fix-lines-on-copier/>

NEW QUESTION 261

- (Topic 3)

Which of the following virtualization technologies allows Linux and Windows operating system to run concurrently?

- A. Test environment
- B. Sandbox
- C. Legacy OS
- D. Cross-platform

Answer: D

Explanation:

Reference: <https://www.comptia.org/training/books/a-core-1-220-1101-study-guide> (page 59)

NEW QUESTION 262

- (Topic 3)

A laptop does not have any audio output from the built-in speakers. The Windows Device Manager shows a down arrow for the audio device. Which of the following will correct this audio issue?

- A. Replacing the speakers
- B. Increasing the volume
- C. Enabling the audio device
- D. Updating the driver

Answer: C

Explanation:

Enabling the audio device is the correct action to correct an audio issue where a laptop does not have any audio output from the built-in speakers and Windows Device Manager shows a down arrow for the audio device. A down arrow indicates that the audio device is disabled and needs to be enabled by right-clicking on it and selecting Enable device. Replacing the speakers, increasing the volume, or updating the driver are unlikely to solve the issue if the audio device is disabled.

NEW QUESTION 264

- (Topic 3)

Which of the following cables should be used to terminate ST connectors on each end?

- A. Optical fiber
- B. Coaxial
- C. Shielded twisted pair
- D. HDMI

Answer: A

Explanation:

Optical fiber is the type of cable that should be used to terminate ST connectors on each end. ST connectors are commonly used for fiber optic cables, which transmit data using light pulses. Coaxial, shielded twisted pair, and HDMI are not types of cables that use ST connectors, but different types of connectors and transmission methods.

NEW QUESTION 268

- (Topic 3)

Using the output below:

```
IPv4 Address: 172.25.1.39
Subnet Mask: 255.255.255.0
Router: 172.25.1.252
Name Server: 172.25.1.4
```

Which of the following is the default gateway?

- A. 172.25.1.252
- B. 172.25.1.39
- C. 172.25.1.4
- D. 255.255.255.0

Answer: A

Explanation:

The default gateway is the IP address of the router or device that connects a network to another network or the internet. In the output below, the default gateway is 172.25.1.252, as shown in the line "Default Gateway : 172.25.1.252". The other IP addresses are not default gateways, but either local IP addresses (172.25.1.39 and 172.25.1.4) or subnet masks (255.255.255.0).

NEW QUESTION 269

- (Topic 3)

While on a VoIP call, one user is unable to understand the other because the audio is breaking up. Which of the following BEST describes what is occurring on the call?

- A. High latency
- B. External interference
- C. No connectivity
- D. Port flapping

Answer: A

Explanation:

High latency is what best describes what is occurring on a VoIP call when one user is unable to understand the other because the audio is breaking up. Latency is the delay between sending and receiving data over a network, and high latency can cause poor quality or interruptions in VoIP calls. External interference, no connectivity, or port flapping are not likely to cause audio breaking up, but rather complete loss of signal or connection.

NEW QUESTION 271

- (Topic 3)

An administrator chose a shared-tenant model for a cloud deployment. Which of the following is the MOST likely reason the administrator chose this model?

- A. Cost savings
- B. Highly available
- C. Dedicated hardware
- D. Increased security

Answer: A

Explanation:

The shared-tenant model for a cloud deployment, also known as a multi-tenant model, allows multiple customers to use the same resources and infrastructure of the cloud service provider, with each customer's data and applications isolated from one another. This model is often chosen for cost savings, as resources are shared and users only pay for what they use. Therefore, the MOST likely reason that an administrator chose this model is A. Cost savings.

NEW QUESTION 272

- (Topic 3)

A technician is configuring a desktop computer, and the hard drive must be encrypted. Which of the following will the technician need to verify is enabled to complete this configuration?

- A. ATX
- B. NIC
- C. TPM
- D. ARM

Answer: C

Explanation:

TPM stands for Trusted Platform Module, which is a hardware component that securely stores encryption keys and other sensitive data¹². TPM can be used to enable hard drive encryption, which is a technology that encrypts the data stored on a hard drive using sophisticated mathematical functions³⁴. Hard drive encryption protects the data from unauthorized access in case the hard drive is lost, stolen, or tampered with.

NEW QUESTION 274

- (Topic 3)

A technician is working with a user to set up scanning. The user requires the scans to be viewable on the network for the entire department. Which of the following settings on the MFP should the technician edit to BEST address the user's request?

- A. Scan to email
- B. Server message block
- C. Secured prints
- D. Web services
- E. Printer share

Answer: B

Explanation:

Server message block (SMB) is the setting on the multifunction printer (MFP) that the technician should edit to best address the user's request of making the scans viewable on the network for the entire department. SMB is a network protocol that allows file sharing and printer access among different devices on a network. The technician can configure the MFP to scan to a shared folder on the network using SMB. Scan to email is a feature that allows the MFP to send scanned documents as email attachments, which may not be viewable by everyone in the department. Secured prints is a feature that allows the MFP to print documents only after entering a PIN or password, which does not address the user's request. Web services is a feature that allows the MFP to access online services such as cloud storage or email, which may not be viewable by everyone in the department either. Printer share is not a setting on the MFP, but a feature that allows a device to share its printer with other devices on a network

NEW QUESTION 275

- (Topic 3)

A user is traveling to another country and will be unable to get personal cell phone service after the plane lands. Which of the following should the user update to resolve the issue?

- A. CDMA
- B. PRL
- C. MDM
- D. GPS

Answer: B

Explanation:

Updating the preferred roaming list (PRL) is what a user should do to resolve the issue of being unable to get personal cell phone service after traveling to another country. The PRL is a database that contains information about cell towers and frequencies that a phone can use in different areas. Updating the PRL can improve the phone's ability to connect to local networks and avoid roaming charges. CDMA is a type of cellular technology that uses code division multiple access to transmit data over radio frequencies. MDM is an acronym for mobile device management, which is a type of software solution that allows remote management and security of mobile devices. GPS is an acronym for global positioning system, which is a satellite-based navigation system that provides location and time information

NEW QUESTION 276

- (Topic 3)

Which of the following BEST describes a lab environment in which virtual machines can be created, rebooted, and shut down without affecting the production network?

- A. SCADA
- B. Sandbox
- C. Honeypot
- D. Hybrid cloud

Answer: B

Explanation:

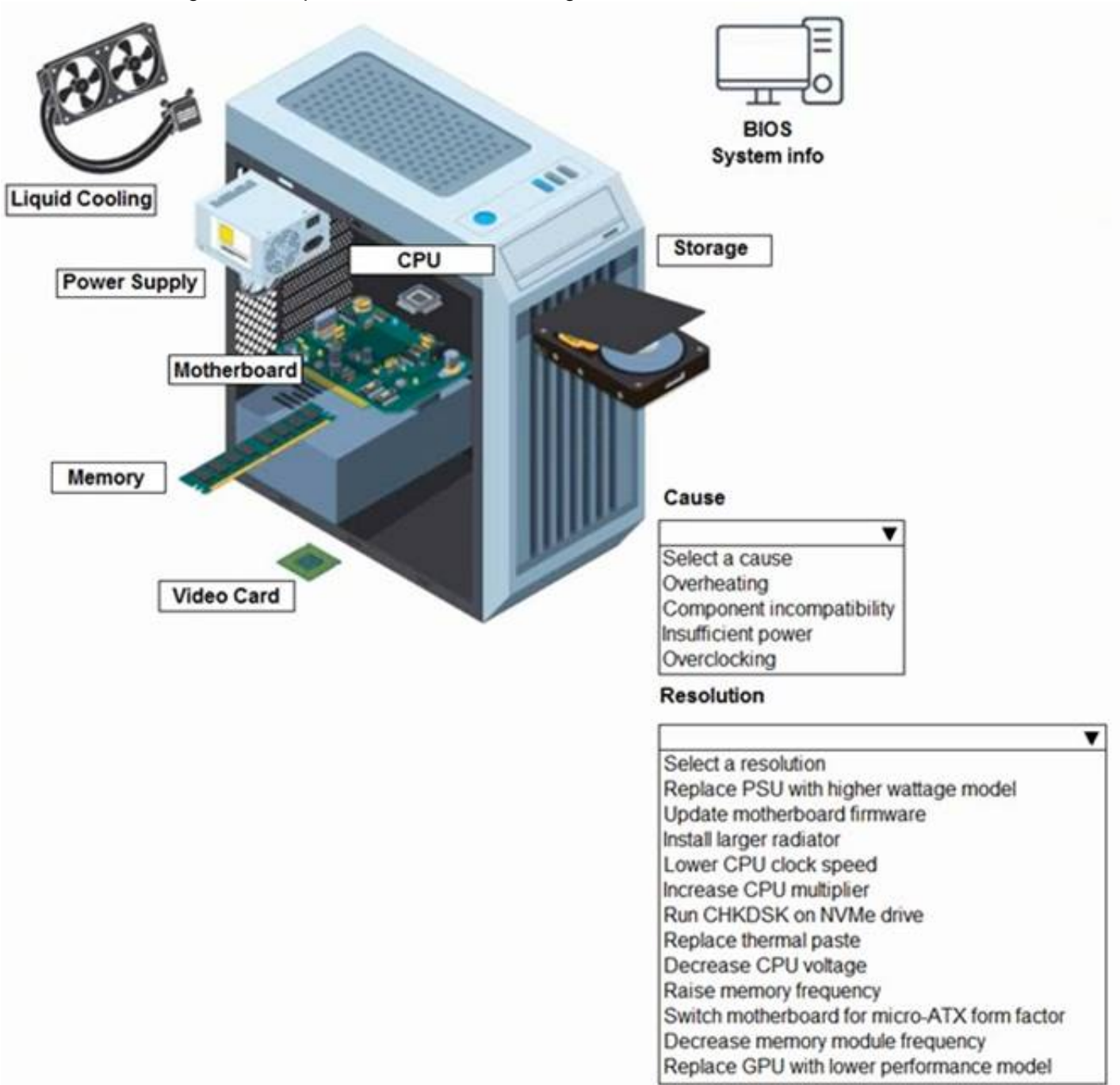
A sandbox is a lab environment in which virtual machines can be created, rebooted, and shut down without affecting the production network. This allows for testing and experimentation without the risk of damaging the production environment123..

NEW QUESTION 280

HOTSPOT - (Topic 3)

A customer built a computer for gaming, sourcing individual components and then assembling the system. The OS starts up, but within a few minutes the machine locks up.

The customer brought the computer to a technician to diagnose the issue.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

correct answer is "Overclocking" and "Reduce CPU Clock speed" CPU is at 4.5 Ghz when normal is 3.2 Ghz. Overclocking too much can cause freezes, and this is a gaming computer so the user probably took it too far. <http://blog.logicalincrements.com/2018/12/4- troubleshooting-tips-overclocking-pc/>

NEW QUESTION 282

- (Topic 3)

A user has noticed high CPU temperatures when gaming. The user would like to lower the CPU temperature, and cost is not an issue. Which of the following should the user do to BEST cool the CPU while keeping noise to a minimum?

- A. Upgrade the thermal paste.
- B. Use a copper heat sink.
- C. Upgrade the CPU fan.
- D. Install liquid cooling.

Answer: D

Explanation:

Liquid cooling is a method of cooling the CPU by circulating a liquid through a closed loop that absorbs heat from the CPU and transfers it to a radiator. Liquid

cooling is more effective and quieter than air cooling, which uses a fan and a heat sink. However, liquid cooling is also more expensive and complex to install. Upgrading the thermal paste, using a copper heat sink, or upgrading the CPU fan are ways to improve air cooling, but they will not lower the CPU temperature as much as liquid cooling. References: <https://www.comptia.org/certifications/a#examdetails> <https://www.comptia.org/blog/what-is-liquid-cooling>

NEW QUESTION 287

- (Topic 3)

A user's desktop computer slows down after a few minutes of use, and the fans alternate between silent and very loud. Which of the following is MOST likely failing, therefore causing these symptoms?

- A. CPU fan
- B. Memory
- C. Power supply
- D. Hard drive

Answer: A

Explanation:

A CPU fan is a component that cools down the CPU, which is the main processor of the computer. If the CPU fan is failing, it can cause the computer to slow down and the fans to alternate between silent and very loud¹². This is because the CPU fan cannot maintain a consistent speed and airflow to keep the CPU at a safe temperature.

When the CPU gets too hot, it throttles its performance to avoid overheating, which results in a slower computer. The other fans in the computer also try to compensate for the lack of cooling from the CPU fan by spinning faster and louder².

NEW QUESTION 291

- (Topic 3)

A technician verifies the slow boot time and slow OS performance of a tower server with a RAID 5 on a PCIe RAID card that does not support hot swapping. Which of the following steps should the technician take NEXT to verify RAID health?

- A. Verify S.M.A.R.
- B. operation on the RAID card.
- C. Replace the failed drive while users are connected
- D. Physically clean the HDDs and connectors.
- E. Shut down the server and check the RAID controller's status.

Answer: D

Explanation:

Since the RAID card does not support hot swapping, the technician needs to shut down the server and check the RAID controller's status to verify RAID health. S.M.A.R.T. is a feature of hard drives, not RAID cards. Replacing the failed drive while users are connected could cause data loss or corruption. Physically cleaning the HDDs and connectors is unlikely to solve the slow boot time and performance issues.

NEW QUESTION 296

- (Topic 4)

A user with an older laptop is unable to connect to the office network after new access points were installed. The user confirms that from home the laptop can connect wirelessly to the network. Which of the following should the user do to quickly resolve the issue?

- A. Connect a new USB adapter.
- B. Install a new SSD
- C. Connect a new biometric device.
- D. Install a new Bluetooth card.

Answer: A

Explanation:

A USB adapter is a device that can plug into a USB port on a laptop and provide wireless connectivity to a network. A USB adapter can support different wireless standards, such as 802.11a, 802.11b, 802.11g, 802.11n, or 802.11ac. A USB adapter can also support different wireless frequencies, such as 2.4 GHz or 5 GHz. In this case, the user with an older laptop may not be able to connect to the office network after new access points were installed because the laptop's built-in wireless card does not support the same wireless standard or frequency as the new access points. For example, if the new access points use 802.11ac and 5 GHz, and the laptop's wireless card only supports 802.11g and 2.4 GHz, the laptop will not be able to communicate with the access points.

To quickly resolve this issue, the user should connect a new USB adapter that supports the same wireless standard and frequency as the new access points. This way, the user can bypass the laptop's wireless card and use the USB adapter to connect to the office network wirelessly.

Reference: CompTIA A+ Core 1: Cable Types & Connectors

NEW QUESTION 298

- (Topic 4)

A company wants to save money by leveraging the cloud while still being able to customize the infrastructure. Which of the following cloud models would best address the company's needs?

- A. Private
- B. Public
- C. Hybrid
- D. Community

Answer: C

Explanation:

A hybrid cloud model would best address the company's needs of saving money by leveraging the cloud while still being able to customize the infrastructure. A hybrid cloud model is a combination of public and private cloud services, connected by a secure network. A public cloud service is a cloud service that is offered by a third-party provider over the Internet, and is shared by multiple customers. A private cloud service is a cloud service that is dedicated to a single customer, and is

hosted either on-premises or by a third-party provider. A hybrid cloud model allows the company to use the public cloud for cost-effective and scalable services, such as storage, backup, or analytics, and use the private cloud for more sensitive or customized services, such as security, compliance, or performance. A hybrid cloud model also enables the company to move workloads between the public and private cloud as needed, depending on the demand, availability, or cost. A hybrid cloud model can provide the company with the best of both worlds: the flexibility and efficiency of the cloud, and the control and customization of the infrastructure.

References:

? What is Hybrid Cloud? | IBM1

? Hybrid Cloud Computing | Microsoft Azure2

? Cloud Deployment Models: Explaining and Comparing the 5 Main Models ...3

NEW QUESTION 299

- (Topic 4)

A customer's Windows tablet PC was dropped and is no longer responding to touch input on the left half of the screen. The screen protector has several scratches. but the glass is not broken. Which of the following should a technician do to diagnose the issue?

- A. Test the digitizer
- B. Update the device drivers.
- C. Replace the damaged screen protector
- D. Perform a factory reset.

Answer: A

Explanation:

The digitizer is the component that converts the touch input into electrical signals that are processed by the tablet. If the digitizer is damaged or malfunctioning, it may not register the touch input correctly or at all. The technician can test the digitizer using a diagnostic tool or by replacing it with a known good one. Updating the device drivers, replacing the damaged screen protector, or performing a factory reset are unlikely to fix the issue, as they do not address the hardware problem.

Reference: [CompTIA A+ Core 1 (220-1101) Certification Study Guide], page 16.

NEW QUESTION 302

- (Topic 4)

A technician is troubleshooting a burning smell on a desktop computer. The technician determines that the odor is coming from inside the device. Which of the following should the technician do first?

- A. Unplug the computer.
- B. Locate a fire extinguisher.
- C. Call the fire department.
- D. Remove the desktop cover.

Answer: A

Explanation:

A burning smell on a desktop computer is a serious issue that indicates a hardware malfunction or failure. It can be caused by overheating, a faulty power supply, a malfunctioning motherboard, or a short circuit¹². If left unchecked, it can damage the components, cause a fire, or harm the user.

The first thing the technician should do when troubleshooting a burning smell on a desktop computer is to unplug the computer from the power source. This will stop the flow of electricity and prevent further damage or fire. The technician should also wear protective gloves and eye wear to avoid contact with any hot or hazardous parts.

The other options are less likely to be the first step in troubleshooting, because:

- Locating a fire extinguisher is a good precaution, but it should not be done before unplugging the computer. The fire extinguisher should only be used if there is visible smoke or flames coming from the computer, and only after unplugging it and ensuring that it is safe to do so.
- Calling the fire department is an extreme measure that should only be done if there is an actual fire that cannot be controlled by the fire extinguisher. It should not be done before unplugging the computer and trying to identify and fix the problem.
- Removing the desktop cover is a necessary step to inspect the internal components and find the source of the burning smell. However, it should not be done before unplugging the computer, as it can expose the technician to live wires and electric shocks.

For more information and tips on how to troubleshoot a burning smell on a desktop computer, you can visit these links:

- How to find the source of a burning smell in my computer?
- Burning Smell From PC? 10 Reasons Why It Could Happen

NEW QUESTION 304

- (Topic 4)

A customer is reporting that some of the keys at the bottom edge on a laptop are hard to press and the track pad buttons require significant force to click. The technician inspects the laptop and does not notice any cracks or other damage to the chassis or screen. Which of the following is the most likely cause of the issue?

- A. The customer dropped the laptop.
- B. The digitizer has failed.
- C. The battery is swollen.
- D. An open bottle of rubbing alcohol fell onto the keyboard.

Answer: C

Explanation:

A swollen battery is the most likely cause of the issue that the customer is reporting. A swollen battery is a battery that has expanded in size due to a chemical reaction, gas buildup, or overheating. A swollen battery can cause pressure on the laptop's chassis, keyboard, track pad, and other components, making them hard to press or click. A swollen battery can also pose a fire hazard and damage the laptop's performance and lifespan. The other options are not as likely or relevant to the issue. Dropping the laptop may cause cracks or other visible damage to the chassis or screen, but the technician did not notice any. The digitizer is the part of the laptop that converts touch input into digital signals, and it has nothing to do with the keyboard or the track pad buttons. An open bottle of rubbing alcohol falling onto the keyboard may cause liquid damage, corrosion, or short circuits, but it would not affect the track pad buttons or the bottom edge of the keyboard.

To troubleshoot and resolve the issue, the technician should remove the battery from the laptop and inspect it for signs of swelling, such as bulging, deformation,

or leakage. The technician should also check the laptop's chassis, keyboard, and track pad for any signs of damage or warping caused by the battery. The technician should then replace the swollen battery with a new one that is compatible with the laptop's model and specifications. The technician should also dispose of the swollen battery properly and safely, following the local regulations and guidelines.

References:

? CompTIA A+ Certification Exam Core 1 Objectives¹

? The Official CompTIA A+ Core 1 Student Guide (Exam 220-1101) eBook²

? How to Fix a Swollen Laptop Battery - Lifewire³

? How to Tell If Your Laptop Battery Is Swollen - Techwalla⁴

NEW QUESTION 307

- (Topic 4)

A user reports that a printer pulls multiple sheets of paper from the paper tray instead of a single sheet. Which of the following should a technician investigate to resolve this issue? (Select two).

- A. Toner cartridge
- B. Tractor feed
- C. Pickup roller
- D. Separation pad
- E. Duplexer
- F. Fuser

Answer: CD

Explanation:

The correct answers are C. Pickup roller and D. Separation pad.

A pickup roller is a rubber wheel that grabs the paper from the paper tray and feeds it into the printer. A separation pad is a small piece of cork or rubber that prevents more than one sheet of paper from being fed at a time. If the pickup roller or the separation pad is worn out, dirty, or damaged, it can cause the printer to pull multiple sheets of paper instead of a single sheet. This can lead to paper jams, misprints, or wasted paper.

To resolve this issue, a technician should investigate the condition of the pickup roller and the separation pad and replace them if necessary. The technician should also clean the paper tray and make sure the paper is loaded correctly and not stuck together.

A toner cartridge is a component that contains the toner powder used to create the printout on a laser printer. A tractor feed is a mechanism that uses sprockets to move continuous paper through a dot matrix printer. A duplexer is a device that allows a printer to print on both sides of the paper automatically. A fuser is a part of a laser printer that melts the toner onto the paper using heat and pressure. None of these components are related to the issue of pulling multiple sheets of paper from the paper tray.

Reference: Types of Printers—What You Need to Know for the CompTIA A+ Exams

NEW QUESTION 309

- (Topic 4)

A technician is configuring a SOHO network. During testing, the technician receives the IP address 169.254.2.2, but the router is assigned the address scope of 192.168.1.254/24. Which of the following is most likely the cause?

- A. DHCP
- B. Ipv6
- C. DNS
- D. Ipv4

Answer: A

Explanation:

DHCP stands for Dynamic Host Configuration Protocol, which is a protocol that provides quick, automatic, and central management for the distribution of IP addresses within a network¹. A DHCP server can assign IP addresses and other network information to devices that request them, such as computers, smartphones, and routers².

The IP address 169.254.2.2 is an example of an APIPA (Automatic Private IP Addressing) address, which is a special type of IP address that devices use when they cannot obtain a valid IP address from a DHCP server³. APIPA addresses are in the range of 169.254.0.1 to 169.254.255.254, with a subnet mask of 255.255.0.0³. Devices that use APIPA addresses can only communicate with other devices on the same local network that also use APIPA addresses³.

The router in the question is assigned the address scope of 192.168.1.254/24, which means it has an IP address of 192.168.1.254 and a subnet mask of 255.255.255.0⁴. This address scope belongs to the private IP address range of 192.168.0.0 to 192.168.255.255, which is commonly used for local networks⁴.

Devices that use private IP addresses can communicate with other devices on the same local network or across different networks through NAT (Network Address Translation)⁴.

The most likely cause of the technician receiving the IP address 169.254.2.2 is that the DHCP server on the router is not working properly or is not configured correctly³. This could be due to various reasons, such as a misconfigured router, a faulty cable, a firewall blocking DHCP traffic, or an exhausted pool of IP addresses³. As a result, the technician's device cannot obtain a valid IP address from the DHCP server and resorts to using an APIPA address instead³.

To fix this issue, the technician should check the router settings and make sure that the DHCP server is enabled and has enough available IP addresses to assign to devices². The technician should also check the physical cabling and make sure it is properly connected

and secured². If the issue persists, the technician should try rebooting the router or resetting it to factory defaults². Alternatively, the technician could manually assign a static IP address to the device that matches the router's address scope, such as 192.168.1.x/24².

NEW QUESTION 311

- (Topic 4)

A technician assembled a new PC. After a few minutes, the computer slows down and then shuts itself off. Which of the following is the most likely cause of the failure?

- A. Thermal paste was not used.
- B. The GPU needs additional power.
- C. The memory is insufficient.
- D. The motherboard is incompatible.

Answer: A

Explanation:

The most likely cause of the failure is A. Thermal paste was not used.

Thermal paste, also known as thermal grease or thermal compound, is a substance that is applied between the CPU and the heat sink to improve the heat transfer and cooling of the CPU. Thermal paste fills the gaps and irregularities between the CPU and the heat sink, creating a better contact and reducing the thermal resistance .

According to some web search results , some signs and symptoms of not using thermal paste or using it incorrectly are:

- The CPU overheats and slows down or shuts down to prevent damage
- The CPU fan spins faster and louder to try to cool down the CPU
- The PC performance drops or becomes unstable
- The PC crashes or displays errors or blue screens

To fix this issue, the technician should apply thermal paste properly between the CPU and the heat sink, following these steps :

- Turn off the PC and unplug it from the power source
- Open the PC case and locate the CPU fan and heat sink
- Remove the CPU fan and heat sink from the motherboard
- Clean the surfaces of the CPU and heat sink with a lint-free cloth and alcohol
- Apply a small amount of thermal paste (about the size of a grain of rice) in the center of the CPU
- Reattach the heat sink and CPU fan to the motherboard, making sure they are aligned and secured
- Close the PC case and plug it back to the power source

The GPU needs additional power, the memory is insufficient, or the motherboard is

incompatible are not likely causes of the failure, since they would not cause the PC to overheat and shut down after a few minutes. The GPU needs additional power if it has a high power consumption that exceeds the capacity of the power supply or the PCIe slot. The memory is insufficient if it cannot handle the applications or tasks that are running on the PC. The motherboard is incompatible if it does not support the CPU, RAM, or other components that are installed on it. These issues may cause poor performance, errors, or crashes, but not overheating and shutting down.

NEW QUESTION 316

- (Topic 4)

A regularly used laser printer is printing vertical lines on each page_ Which of the following should the technician do first?

- A. Lower the printing contrast.
- B. Change the paper type
- C. Install a new fuser.
- D. Replace the toner cartridge

Answer: D

Explanation:

The answer is D. Replace the toner cartridge.

Vertical lines on a laser printer output are usually caused by a faulty or empty toner cartridge, a dirty or damaged drum unit, or a clogged or obstructed laser glass.

According to the web search results, some possible steps to troubleshoot and resolve this issue are:

? Check the toner level and replace the toner cartridge if it is low or empty¹.

? Remove the toner cartridge and inspect the drum unit for any signs of damage, such as scratches, cracks, or toner buildup. Clean the drum unit with a soft cloth or replace it if it is damaged²³.

? Locate the laser glass, which is a narrow strip of glass under the scanner lid or inside the printer. Clean the laser glass with a lint-free cloth moistened with water and remove any dust, dirt, or debris that might block the laser beam²⁴.

NEW QUESTION 321

- (Topic 4)

Which of the following is the best reason to set up a virtual sandbox?

- A. To run a test application that communicates with the test environment
- B. To analyze the effects of malware in a safe manner
- C. To host an application that multiple remote users can access
- D. To test an application in Windows and Linux concurrently

Answer: B

Explanation:

A virtual sandbox is an isolated environment that mimics the characteristics of a real system, but does not affect or interact with it¹. A virtual sandbox can be used to run potentially unsafe or malicious code and observe its behavior without risking harm to the host machine or network². This is useful for cybersecurity researchers who want to test and analyze malware samples, such as viruses, worms, ransomware, etc., and understand how they work and how to prevent or mitigate them³.

NEW QUESTION 323

- (Topic 4)

Which of the following server roles does RADIUS perform?

- A. DNS
- B. AAA
- C. Mail server
- D. Syslog

Answer: B

Explanation:

AAA stands for Authentication, Authorization, and Accounting, and it is a framework that provides security services for network access control. Authentication verifies the identity of a user or device that requests access to a network resource. Authorization determines what level of access or privileges are granted to a user or device based on their identity or role. Accounting tracks and records the usage of network resources by users or devices for billing or auditing purposes. RADIUS (Remote Authentication Dial-In User Service) is a protocol that implements AAA functions by communicating with a central server that stores user credentials and policies.

NEW QUESTION 326

- (Topic 4)

A technician attempts to join a Windows client to a domain but receives the following error: An attempt to resolve the hostname has failed. The technician generates the display shown below utilizing ipconfig /all.

```
Physical Address:      80-3F-6C-33-32-C5
IPv4 Address:         192.168.12.144
Subnet Mask:          255.255.255.0
Default Gateway:      192.168.12.254
DNS Server:           127.0.0.1
```

Which of the following is the most likely reason for the error?

- A. DNS
- B. Physical address
- C. Subnet mask
- D. IPv4 address
- E. Default gateway

Answer: A

Explanation:

The most likely reason for the error is that the DNS server is not configured correctly. The technician should check the DNS server settings and make sure they are correct.

DNS, or Domain Name System, is a service that translates domain names, such as www.example.com, into IP addresses, such as 192.168.1.1, that computers use to communicate with each other. DNS is essential for joining a Windows client to a domain, which is a logical group of computers that share a common directory and security policy. A domain name, such as example.com, identifies the domain and its members on the network.

To join a Windows client to a domain, the client needs to resolve the hostname of the domain controller, which is the server that manages the domain and its resources. The client sends a DNS query to the DNS server, asking for the IP address of the domain controller. The DNS server responds with the IP address, and the client uses it to establish a connection with the domain controller and complete the domain join process.

However, if the DNS server is not configured correctly, the client may not be able to resolve the hostname of the domain controller, and receive the error: An attempt to resolve the hostname has failed. This can happen if the DNS server is not reachable, not authoritative, or not updated. For example, the DNS server may have an incorrect IP address, a wrong DNS suffix, a missing or outdated DNS record, or a firewall blocking the DNS traffic.

To fix the error, the technician should verify that the DNS server settings on the client and the domain controller are correct and consistent. The technician can use the ipconfig /all command to display the DNS server settings, such as the IPv4 address, the subnet mask, the default gateway, and the DNS suffix. The technician can also use the nslookup command to test the DNS resolution and the ping command to test the connectivity. The technician should make sure that the client and the domain controller are using the same DNS server, and that the DNS server can resolve the hostname of the domain controller. References:

? How to Resolve the "Temporary failure in name resolution" Error1

? Strict hostname resolution configured but no hostname was set2

? Error: Hostname Not Resolved to an IP Address - HostGator3

? The Host Name Could Not be Resolved in DNS4

? Troubleshoot DNS name resolution on the Internet - Windows Server5

NEW QUESTION 328

- (Topic 4)

A PC's boot drive is showing signs of imminent failure, and a technician needs to recover the data. Which of the following should the technician do first?

- A. Clone the drive to another one.
- B. Access the Device Manager.
- C. Download the drive manufacturer's diagnostic tool.
- D. Uninstall the drive in the Device Manager.
- E. Replace the drive with a new one.

Answer: A

Explanation:

The first step to recover data from a failing drive is to clone the drive to another one, which means creating an exact copy of the drive's contents, including the operating system, applications, files, and settings, to a new drive. Cloning the drive can preserve the data and prevent further damage or data loss from the failing drive. Cloning the drive can also allow the technician to boot from the new drive and access the data normally, without needing to reinstall the operating system or the applications12.

The other options are not as effective or relevant as cloning the drive. Accessing the Device Manager may not help with data recovery, as it is a tool that displays and manages the hardware devices and drivers on a PC. The Device Manager may show the status of the failing drive, but it cannot copy or restore the data from it3. Downloading the drive manufacturer's diagnostic tool may help with identifying and repairing some errors or issues with the drive, but it may not be able to recover the data if the drive is physically damaged or corrupted. The diagnostic tool may also overwrite or erase some data during the repair process, which can make the data recovery more difficult or impossible4. Uninstalling the drive in the Device Manager may not help with data recovery, as it removes the drive from the system and its driver from the operating system. Uninstalling the drive may make the drive inaccessible or unrecognized by the PC, which can prevent the data recovery5. Replacing the drive with a new one may not help with data recovery, as it does not transfer the data from the old drive to the new one. Replacing the drive may also require reinstalling the operating system and the applications, which can take time and effort. Replacing the drive may also discard the old drive, which may still contain some recoverable data.

References:

? CompTIA A+ Core 1 (220-1101) Certification Study Guide, Chapter 3: Hardware, Section 3.3: Storage Devices, Page 140

? CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) Exam Cram, Chapter 3: Storage, Section 3.5: Disk Management, Page 107

? CompTIA A+ Core 1 (220-1101) Certification Study Guide, Chapter 2: Operating Systems, Section 2.4: Device Manager, Page 84

? CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) Exam Cram, Chapter 3: Storage, Section 3.6: Troubleshooting Storage Devices, Page 111

? CompTIA A+ Core 1 (220-1101) Certification Study Guide, Chapter 2: Operating Systems, Section 2.4: Device Manager, Page 85

? CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) Exam Cram, Chapter 3: Storage, Section 3.6: Troubleshooting Storage Devices, Page 112

NEW QUESTION 333

- (Topic 4)

Which of the following 802.11 Wi-Fi protocols utilizes the 5.0GHz frequency and has the BEST speed and reception?

- A. 802.11a
- B. 802.11 ax
- C. 802.11b/g/n
- D. 802.11n

Answer: B

Explanation:

802.11 ax is a wireless networking protocol that utilizes the 5.0GHz frequency and has the best speed and reception among the options given. 802.11 ax offers higher data rates, lower latency, increased capacity, and improved power efficiency than previous protocols. It is also known as Wi-Fi 6 or High Efficiency Wireless (HEW). 802.11a also uses the 5.0GHz frequency, but it is an older protocol that has lower speed and reception than 802.11 ax. 802.11b/g/n use the 2.4GHz frequency, which is more crowded and prone to interference than the 5.0GHz frequency. 802.11n can use both frequencies, but it is also slower and less efficient than 802.11 ax. Reference: <https://www.comptia.org/training/books/a-core-1-220-1101-study-guide> (page 82)

NEW QUESTION 336

- (Topic 4)

A network engineer recently deployed a new application server in a cloud environment. Which of the following should be implemented to prevent a single point of failure within the system?

- A. Rapid elasticity
- B. RAID
- C. High availability
- D. Shared resources

Answer: C

Explanation:

High availability is a design principle that ensures a system or service can operate continuously without significant downtime or disruption. High availability can be achieved by implementing redundancy, failover, load balancing, and backup strategies. High availability can prevent a single point of failure within the system, which means that if one component fails, another one can take over its function. Rapid elasticity is the ability to scale up or down the resources of a system according to the demand, but it does not prevent a single point of failure. RAID is a method of storing data across multiple disks to provide redundancy and performance, but it does not prevent a single point of failure at the server level. Shared resources are the resources that are pooled and accessed by multiple users or systems, but they do not prevent a single point of failure either. References: <https://www.comptia.org/blog/what-is-cloud-computing>

NEW QUESTION 339

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