Exam Questions 220-1101

CompTIA A+ Certification Exam: Core 1

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NEW QUESTION 1
- (Topic 2)
Which of the following is a method that can be used to securely connect a remote user's laptop to a corporate server?

A. WAN
B. VPN
C. SSL
D. DHCP

Answer: B

Explanation:
A Virtual Private Network (VPN) is a secure method for connecting a remote user's laptop to a corporate server. VPNs use encryption to protect data transmitted over the internet.

NEW QUESTION 2
- (Topic 2)
A user on the marketing team uses various multimedia applications that consume a lot of memory. The user needs to install more RAM to run these applications effectively. When the user opens the computer case, the user sees four slots in two sets of colors. Which of
the following memory types is MOST likely required?

A. Dual-channel
B. Triple-channel
C. Single-channel
D. Quad-channel
E. Error correction code RAM

Answer: A

Explanation:
The two sets of colors on the motherboard indicate that it supports dual- channel memory, which doubles the bandwidth available to the memory controller. Dual-channel memory requires two identical memory modules to be installed in pairs in the correct slots to work effectively. In this case, the user can install two identical RAM modules to enable dual-channel memory, which will provide better performance when using multimedia applications that consume a lot of memory.

NEW QUESTION 3
- (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 4
- (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 5
- (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 6
- (Topic 2)
A user calls the help desk lot 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 7
- (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 8
- (Topic 2)
A technician made several upgrades to a computer and then determined the power supplied by the PSU is insufficient. Which of the following would MOST likely cause the insufficiency? (Select TWO).

A. Replacing the HDD with an SSD
B. Upgrading the firmware
C. Adding an optical drive
D. Adding more RAM
E. Adding a CMOS battery
F. Upgrading the graphics card

Answer: DF

Explanation:
If a technician made several upgrades to a computer and then determined the power supplied by the PSU is insufficient, the upgraded graphics card and adding more RAM would most likely cause the insufficiency. Upgrading the graphics card and adding more RAM can increase the power consumption of a computer, which can cause the power supplied by the PSU to be insufficient.
Adding more RAM and upgrading the graphics card are the most likely causes of the insufficiency of power supplied by the PSU. These upgrades require more power to operate efficiently and can cause the PSU to become insufficient.

NEW QUESTION 9
- (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 10
- (Topic 2)
A technician is configuring a new CAD workstation that has four large hard drives. The workstation will be used to edit large, critical files, so the storage configuration should be both fast and redundant. Which of the following RAID levels BEST meets these requirements?

A. 1
B. 5
C. 10

Answer: D

Explanation:
 RAID 10 combines the benefits of RAID 0 and RAID 1. It uses a striped configuration across multiple disks (similar to RAID 0) to provide high-speed read and write access. Additionally, it also mirrors the striped array onto a second set of drives (similar to RAID 1), providing redundancy in case of a drive failure.

NEW QUESTION 10
- (Topic 2)
A user who works with sensitive data has a computer configured with hard drive encryption The TPM is active and hosting the encrypted key. After an upgrade to the motherboard. RAM and video card the hard drive is not booting and data cannot be accessed from the hard drive. Which of the following should the technician do to enable the system to boot again and get access to the stored data?

A. Use data recovery software to find and recover the hard drive information
B. Access the BIOS and select to rebuild the degraded RAID array
C. Boot into the BIOS and enable the TPM on the new motherboard.
D. Return the replaced motherboard back to the computer

Answer: C

Explanation:
 After upgrading the motherboard, the TPM may need to be enabled in the BIOS in order to
access the encrypted key and boot the system. Enabling the TPM on the new motherboard should allow the system to boot and provide access to the encrypted data. References: CompTIA A+ Certification Exam Guide, 220-1001, Chapter 13

NEW QUESTION 13
- (Topic 1)
An administrator is configuring a corporate-owned smartphone for a new manager. The company requires the ability to wipe the phone's data remotely in the event of loss or theft and the capability to approve applications installed on the phone. Which of the following tools would BEST meet this need?

A. Tethering to a corporate-owned laptop
B. WPA2-Enterprise wireless
C. Corporate enterprise email
D. Mobile device management

Answer: D

Explanation:
 Mobile Device Management (MDM) is a software solution that allows companies to manage and secure mobile devices used in the corporate environment. MDM provides features such as remote data wipe, application management, and device security policies to ensure data protection and compliance with company policies. References: CompTIA A+ Certification Exam Objectives 220-1001 - Mobile device hardware and operating systems - 2.8

NEW QUESTION 15
- (Topic 1)
A user reports that a PC occasionally falls 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 19
- (Topic 1)
Which of the following network devices is used to separate broadcast domains?

A. Switch
B. Wireless access point
C. Router
D. Hub

Answer: C

Explanation:
A router (option C) is a network device that is used to separate broadcast domains. A broadcast domain is a logical division of a computer network in which all nodes can reach each other by broadcast at the data link layer. Routers operate at the network layer of the OSI model and use routing tables to determine the best path for forwarding packets between different networks.
By separating broadcast domains, routers can help to reduce network congestion and improve performance. When a router receives a broadcast packet on one of its interfaces, it does not forward the packet to any other interfaces. This means that only devices within the same broadcast domain as the sender will receive the broadcast packet.

NEW QUESTION 20
- (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 21
- (Topic 1)
A Wi-Fi mesh network has been optimized to eliminate poor coverage areas, yet users still experience decreased bandwidth and connectivity issues. Which of the following actions should the technician take NEXT?

A. Relocate any large, dense, solid, and metal objects, such as mirrors and file cabinets, in the mesh network coverage area to the perimeter so that wireless reflections, absorptions, and occlusions are minimized.
B. Use a Wi-Fi analyzer to determine whether the channel in use is overcrowded and to identify which channel the mesh network should use for best performance.
C. Use the signal strength indicator on a mobile device to roam the coverage area and generate a heat map to isolate zones with weak signals.
D. Turn off broadcasting of the SSID on the mesh network so that other networks cannot see it.

Answer: B

Explanation:
If users are experiencing decreased bandwidth and connectivity issues in a Wi-Fi mesh network, the technician should use a Wi-Fi analyzer to determine whether the channel in use is overcrowded and to identify which channel the mesh network should use for best performance. References: CompTIA A+ Certification Study Guide, Tenth Edition, pg. 308

NEW QUESTION 22
- (Topic 1)
A colleague has a laptop that has been working as expected for several years wall outlet. The MOST likely component that needs to be replaced is the:

A. power adapter.
B. battery.
C. system fan.
D. hard drive.

Answer: B

Explanation:
Based on the information provided in the question, the MOST likely component that needs to be replaced is A. power adapter. If a laptop has been working as expected for several years but suddenly stops working when it is plugged into a wall outlet, it is possible that the power adapter has failed and is no longer able to provide power to the laptop. In this case, replacing the power adapter would likely resolve the issue.
The other components listed in the options (battery, system fan, and hard drive) could also potentially fail and cause issues with a laptop's performance. However, based on the specific scenario described in the question (the laptop suddenly stops working when plugged into a wall outlet), it seems most likely that the issue is related to the power adapter.
If the laptop has been working as expected for several years and suddenly stops working, the power adapter is the most likely component that needs to be replaced. Over time, the power adapter can become worn or damaged, resulting in a loss of power to the laptop. References: CompTIA A+ Certification Exam Guide, Ninth Edition, Chapter 3

NEW QUESTION 26
- (Topic 1)

Several users who share a multifunction printer in an office have reported unintended, thin, vertical lines that cover the entire height of every page printed from the printer. Which of the following steps should a technician complete in order to MOST likely resolve this issue?

A. Replace the printer paper with a new ream.
B. Clear the print spooler on each computer.
C. Reinstall the printer driver on each computer
D. Perform the drum-cleaning procedure.

Answer: D

Explanation:
 Thin, vertical lines on every printed page are usually caused by a dirty drum or toner cartridge. Performing the drum-cleaning procedure will likely resolve the issue. References: CompTIA A+ Certification Exam Guide, Ninth Edition, Chapter 18

NEW QUESTION 28
- (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:
 he 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 30
- (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 31
- (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 32
- (Topic 1)
A user reboots a machine. On rebooting, the user hears one beep, and then an error message is displayed. Which of the following are MOST likely causing this issue? (Select TWO).

A. RAM module
B. Graphics card
C. CPU
D. Boot order
E. USB flash drive
F. Power supply

Answer: AD

Explanation:

When a user hears one beep on rebooting a machine, and then an error message is displayed, it could indicate that there is a problem with the RAM module or the boot order. The beep sound indicates that the POST process was successful, and the error message indicates that the boot process was unsuccessful. The boot order determines the sequence in which the computer looks for bootable devices. References: CompTIA A+ Certification All-in-One Exam Guide, Tenth Edition by Mike Meyers (Page 693)

NEW QUESTION 37
- (Topic 1)
An organization has some computers running macOS and some computers running Windows. The computers running macOS also need to run a piece of software that is only available on Windows. Which of the following BEST describes the solution for running Windows software on a computer running macOS?

A. Operating system spoofing
B. Remote software provisioning
C. Indirect software implementation
D. Cross-platform virtualization

Answer: D

Explanation:
Cross-platform virtualization would be the best solution for running Windows software on a computer running macOS. This involves running a virtual machine (VM) on the macOS computer, which emulates a Windows environment and allows the Windows software to be installed and run within the VM. Cross-platform virtualization allows a computer running macOS to run Windows software. It involves creating a virtual machine on the macOS computer and installing a Windows operating system on it. References: CompTIA A+ Certification Exam Guide, Ninth Edition, Chapter 1

NEW QUESTION 42
- (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 44
- (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 45
- (Topic 1)
A user connects a smartphone to a laptop. Which of the following types of networks has the user created?

A. PAN
B. MAN
C. WLAN
D. LAN

Answer: A

Explanation:
When a user connects a smartphone to a laptop, they create a Personal Area Network (PAN). A PAN is a type of network used for communication between devices in close proximity to each other, typically within a range of a few meters or less. This type of network is commonly used for wireless communication between personal devices, such as connecting a smartphone to a laptop for file sharing or internet access. References: CompTIA A+ Certification Exam Objectives - 220-1001: 1.1 Explain common connectors and their uses.

NEW QUESTION 50
- (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 54
- (Topic 1)
Which of the following would MOST likely be used to obtain electronic images of a large number of printed documents?

A. NFC device
B. ADF/flatbed scanner
C. Camera/webcam
D. QR scanner

Answer: B

Explanation:
ADF/flatbed scanner would most likely be used to obtain electronic images of a large number of printed documents. References: CompTIA A+ Certification Exam Guide, Exam 220-1001, Page 351

NEW QUESTION 57
- (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 59
- (Topic 1)
A laptop has been returned for a screen repair. The owner insists the screen is broken, but occasionally a faded image is able to be seen in very bright settings on the desktop. Which of the following steps should the repair technician take FIRST?

A. Replace the graphics card.
B. Replace the screen, as the customer insists.
C. Recommend the usage of an external display instead.
D. Ensure the backlight is functioning as expected.

Answer: D

Explanation:
If a laptop has been returned for a screen repair and the owner insists the screen is broken, but occasionally a faded image is able to be seen in very bright settings on the desktop, the first step the repair technician should take is to ensure the backlight is functioning as expected. If the backlight is faulty, the screen may appear to be broken, but it may only be dim or too dark to be visible

NEW QUESTION 60
- (Topic 1)
Which of the following technologies can allow multiple networks to traverse a switch?

A. VLAN
B. VRRP
C. VPN
D. DHCP

Answer: A

Explanation:

The technology that allows multiple networks to traverse a switch is VLAN (Virtual Local Area Network) which is a logical grouping of devices on the same network regardless of their physical location12.
Virtual Local Area Network (VLAN) technology can allow multiple networks to traverse a switch. A VLAN is a logical network created within a physical network that can separate traffic and allow multiple networks to coexist on the same physical network infrastructure. VRRP (Virtual Router Redundancy Protocol), VPN (Virtual Private Network), and DHCP (Dynamic Host Configuration Protocol) do not allow multiple networks to traverse a switch. References: CompTIA A+ Certification Exam: Core 1 - Objective 3.2

NEW QUESTION 65
- (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 67
- (Topic 1)
A customer reports that a computer is never able to reach more than a 100Mbps transfer data rate, even when using a Gigabit LAN card. While troubleshooting, the technician notices the network cable needs to be replaced. Which of the following cable categories is limiting the transfer speed?

A. Cat 5
B. Cat 5e
C. Cat 6
D. Cat 6a

Answer: A

Explanation:
Cat 5 cable is limited to a maximum data transfer rate of 100Mbps, while Cat 5e, Cat 6, and Cat 6a cables support Gigabit Ethernet (1000Mbps) and higher speeds. Even though the LAN card is capable of Gigabit speeds, it cannot achieve that speed when using a Cat 5 cable. Upgrading to a Cat 5e or higher cable would allow the computer to achieve Gigabit speeds. References: CompTIA A+ Certification Exam: Core 1 - Page 196

NEW QUESTION 70
- (Topic 1)
A technician receives several error alerts on a server after an unexpected reboot. A message states that one or more disks are in a degraded state. When the technician advances to the next error message, it indicates the OS is missing. Which of the following are the MOST likely causes of these errors? (Choose two.)

A. Missing drives in the OS
B. RAID failure
C. Bootable device not found
D. Data loss
E. Controller failure
F. CMOS corruption
G. TPM malfunction

Answer: BC

Explanation:
The message stating that one or more disks are in a degraded state is a clear indication of a RAID failure. RAID stands for Redundant Array of Independent Disks, and it is a technology used to provide fault tolerance and improve performance by combining multiple hard drives into a single logical unit.
The message indicating that the OS is missing is most likely caused by a bootable device not found. This means that the server is unable to boot from the designated boot device, which could be the hard drive, a CD/DVD drive, or a USB flash drive. This could be caused by a faulty boot device, a loose cable, or a misconfiguration in the BIOS or UEFI settings.

NEW QUESTION 72
- (Topic 1)
A technician needs to improve a workstation's overall response time for frequently used applications and data without removing the current hard drive. Which of the following storage devices should the technician install to BEST accomplish the objective?

A. M.2
B. SAS
C. HDD
D. SCSI

Answer: A

Explanation:
Installing an M.2 SSD will improve a workstation's overall response time for frequently used applications and data without removing the current hard drive. M.2 drives are faster and more efficient than traditional hard drives, making them a good option for increasing overall performance. References: CompTIA A+ Certification Exam Core 1 Exam Objectives - 1.5 Given a scenario, configure storage devices and use appropriate media

NEW QUESTION 75
- (Topic 1)
A field technician has been dispatched to a site with an internet outage. Upon arriving, the technician discovers that the POTS lines are not working as well. Which of the following technologies is the site MOST likely using?

A. Fiber
B. Cable
C. DSL
D. Satellite

Answer: C

Explanation:
DSL (Digital Subscriber Line) uses POTS (Plain Old Telephone Service) lines to provide high-speed internet access. If the POTS lines are not working, it could cause an internet outage for DSL customers. Fiber and cable internet typically use different types of infrastructure, while satellite internet is not reliant on POTS lines. References: CompTIA A+ Certification Exam: Core 1 - Page 231

NEW QUESTION 79
- (Topic 1)
A technician is setting up a device to use two-factor authentication. Which of the following meets this requirement?

A. Thumbprint/retinal scan
B. Password/password
C. Password/thumbprint
D. Password/PIN

Answer: C

Explanation:
Two-factor authentication (2FA) is a security process that requires users to provide two different authentication factors to verify their identity. This means that in addition to providing something they know (such as a password or PIN), they must also provide something they have (such as a smart card or token) or something they are (such as a fingerprint or retinal scan).
In this case, the correct answer would be C. Password/thumbprint. This option meets the requirement for two-factor authentication because it combines two different types of authentication factors: something the user knows (the password) and something the user is (the thumbprint). The other options do not meet the requirement for 2FA because they either use only one type of authentication factor (A and D) or use two instances of the same type of factor (B).

NEW QUESTION 80
- (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 84
- (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 85
- (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. OHCP pool configuration

B. MAC filtering list
C. Wireless protocol settings
D. ONS 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 90
- (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 92
- (Topic 1)
A small office has a wireless network with several access points for roaming laptop use. Users occasionally report that the wireless connection drops or becomes very slow. Users have confirmed that this issue only happens when connected to the office wireless network. Which of the following would MOST likely be the cause?

A. Hidden SSID
B. Device interference
C. Ethernet port flapping
D. High ISP latency

Answer: B

Explanation:
 Device interference is the most likely cause of the wireless connection dropping or becoming slow. Interference can come from other wireless devices, microwave ovens, or physical barriers like walls and metal objects. Hidden SSID, Ethernet port flapping, and high ISP latency are not likely to cause this issue.
Wireless interference from other devices can cause a drop in wireless connection speed and stability. In a small office environment, there may be several wireless devices competing for the same bandwidth, causing the issues described. References: CompTIA A+ Certification Exam Core 1 Exam Objectives - 3.7 Given a scenario, troubleshoot wired and wireless networks with appropriate tools

NEW QUESTION 97
- (Topic 1)
A remote user called the help desk to report a notification indicating there is limited or no connectivity. The user can access local file folders and other local machines but none of the organization's servers or network items. Web pages do not appear to function either. Which of the following is the MOST likely cause of the issue?

A. The user's internet connection is down.
B. The user's domain account is locked out.
C. The user's switch has stopped working.
D. The user's IP address needs to be renewed.

Answer: A

Explanation:
 Based on the information provided in the scenario, the most likely cause of the issue is that the user's internet connection is down (option A). This would explain why the user is unable to access any of the organization's servers or network items and why web pages are not functioning. However, since the user can still access local file folders and other local machines, it suggests that their local network is still functioning.
The user can access local file folders and other local machines but none of the organization's servers or network items, indicating that the issue is with the user's internet connection, not with the user's domain account, switch, or IP address.
When a user receives a notification indicating that there is limited or no connectivity, it means that their device is unable to establish a connection to the network. In this scenario, the user can access local file folders and other local machines but is unable to access any of the organization's servers or network items and web pages are not functioning. This suggests that the issue is with the user's internet connection.
An internet connection allows a device to communicate with other devices and servers outside of its local network. If the internet connection is down or not functioning properly, the device will be unable to access any resources outside of its local network. This would explain why the user in this scenario can still access local resources but is unable to access any of the organization's servers or network items.

NEW QUESTION 101
- (Topic 1)
Which of the following describes the operational difference between hubs and switches when transmitting data to a specific computer inside the network?

A. Switches only send data to the specific computer, while hubs send data to all computersinside the network.
B. Switches compress data while hubs send uncompressed data
C. Switches receive data and route it to all computers inside the network while hubs receive data and do not route
D. Switches scramble data, while hubs send data in the original form.

Answer: A

Explanation:
Switches only send data to the specific computer, while hubs send data to all computers inside the network. References: CompTIA A+ Certification Exam Guide, Exam 220-1001, Page 323

NEW QUESTION 102
- (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 104
- (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 106
- (Topic 2)
The owner of a restaurant reports that wireless network connections are lost intermittently throughout the day. Which of the following steps should a technician take to troubleshoot the issue? (Select TWO).

A. Identify the location of devices that utilize 2.4GHz.
B. Check to see if the phones are IJTP or STP lines.
C. Test to see if the copper electrical Wires are causing interference.
D. Map all of the wireless signals in the restaurant.
E. Verify T568B is being used in the wiring closet patch panel.
F. Schedule timed router reboots throughout the day.

Answer: AD

Explanation:
The correct answers are A. Identify the location of devices that utilize 2.4GHz and D. Map all of the wireless signals in the restaurant. In order to troubleshoot the issue, the technician should first identify the location of devices that utilize the 2.4GHz frequency, as this can cause interference with the wireless signal. Additionally, the technician should map all of the wireless signals in the restaurant in order to identify any potential sources of interference. Checking to see if the phones are IJTP or STP lines, testing to see if the copper electrical wires are causing interference, verifying T568B is being used in the wiring closet patch panel, and scheduling timed router reboots throughout the day are not necessary steps for troubleshooting this issue.

NEW QUESTION 109
- (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 112
- (Topic 2)
Which of the following network devices would an administrator use to distribute traffic evenly throughout multiple nodes?

A. Load balancer
B. Bridge
C. Proxy server
D. Switch
E. Firewall

Answer: A

Explanation:
A load balancer is a network device that distributes network or application traffic across multiple servers to ensure that no single server bears too much of the load. Load balancing helps to improve application availability, increase scalability, and optimize resource utilization.
A bridge is used to connect two different networks, often to divide a larger network into smaller segments. A proxy server is used to forward client requests to other servers, and can also be used to cache frequently requested data. A switch is used to connect multiple devices within a network and to control the flow of network traffic. A firewall is used to secure a network by controlling incoming and outgoing traffic based on defined security rules.
Reference: CompTIA A+ Core 1 Exam Guide, page 244.

NEW QUESTION 115
- (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 116
- (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 functionally?

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 functionality123.

NEW QUESTION 117
- (Topic 2)
A startup is looking to immediately expand its data center but does not have the personnel or space to manage everything internally. The organization has multiple small offices and remote users with large computational and storage-solution requirements. Funding is not an issue for the company. Which of the following can BEST accomplish the company's goals?

A. SaaS
B. IaaS
C. ISP
D. SON

Answer: B

Explanation:
 IaaS is a cloud computing model where a third-party provider hosts infrastructure components such as servers, storage, and networking on behalf of customers. This allows the startup to immediately expand its data center without the need for additional personnel or space to manage everything internally. Additionally, IaaS allows remote users to easily access the required computational and storage resources from multiple small offices.
Infrastructure as a Service (IaaS) can provide the startup with the necessary computational and storage solutions without the need for internal management. IaaS allows organizations to rent computing resources from a third-party provider instead of owning and maintaining them in-house.

NEW QUESTION 118
- (Topic 2)
A user entered a help desk ticket stating the latest calendar updates have not appeared on the user's corporate mobile device for several days, even though updates do appear on the user's laptop. Which of the following actions will MOST likely enable calendar alerts?

A. Checking that the ringer volume on the device is high enough to be audible
B. Ensuring the corporate password is saved correctly in the calendar application
C. Installing a third-party calendar application and synchronizing it with the corporate calendar
D. Remotely wiping the mobile device and reinstalling all applications

Answer: B

NEW QUESTION 121
- (Topic 2)
Which of the following wireless technologies has the MOST range and wireless throughput?

A. 802.11ac
B. 802.11ax
C. 802. 11b/gin
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 125
- (Topic 2)
A help desk technician thinks a desktop PC has failed due to a defective power supply. Which of the following steps should the technician take NEXT?

A. Inquire about environmental or infrastructure changes.
B. Conduct external or internal research based on symptoms.
C. Establish a plan of action to resolve the problem and implement the solution.
D. Document the findings, actions, and outcomes.

Answer: C

Explanation:
 Once the technician has determined that the power supply is likely to be defective, they should establish a plan of action to resolve the problem. This may include replacing the power supply or further testing to confirm that it is indeed defective. After establishing a plan of action, the technician should implement the solution and verify that it has resolved the issue.

NEW QUESTION 129
- (Topic 2)
A technician is replacing a ribbon on a printer that produces faded text and Images when priming. Which of the following types of primers is the technician working on?

A. Impact
B. Inkjet
C. Laser
D. Thermal

Answer: A

Explanation:
 An impact printer is a type of printer that uses a ribbon to produce text and images on paper. If an impact printer is producing faded text and images when printing, it could be due to a worn-out ribbon that needs to be replaced. The technician would need to replace the ribbon on the impact printer to resolve the issue.
A ribbon is a consumable component used in impact printers that uses a cloth or plastic strip coated with ink to produce text and images on paper. Examples of impact printers include dot matrix printers and line printers. References: Study Guide Section 4.6 - Printer technologies

NEW QUESTION 134
- (Topic 2)
A thermal punier that is used 10 print order buckets m a factory has been experiencing Issues following the failure of the alt conditioner during the summer. Each ticket has blank spots or is missing text. Which of the following would MOST likely solve these Issues?

A. Restore function to the air conditioner.
B. Clean the heating element.
C. Replace the paper rolls.
D. Install new toner.

Answer: A

Explanation:
 it appears that option A, restoring function to the air conditioner, would most likely solve the thermal printer issue in the described scenario. The failure of the air conditioner during the summer could likely have caused high humidity or heat in the factory, which can affect the printing quality of thermal printers by causing blank spots or missing text. By restoring function to the air conditioner, the temperature and humidity in the factory can be controlled, which can help eliminate these printing issues. However, it is still possible that any of the other options listed could also potentially solve the issue, so it is best to assess the situation further and try different solutions if necessary.

NEW QUESTION 138
- (Topic 2)
Which of the following network types would be used in a server room to connect virtual servers lo high-speed storage?

A. WAN
B. PAN
C. MAN
D. SAN

Answer: D

Explanation:
 A Storage Area Network (SAN) is a dedicated, high-speed network that connects servers to data storage devices. SANs are used in server rooms to provide high-speed storage access to virtual servers.

NEW QUESTION 143
- (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 147
- (Topic 2)
A company wants to give third-party developers access to the corporate network through desktop environments that the company can control. Which of the following can BEST achieve these requirements?

A. Sandbox
B. VDI
C. Private cloud
D. Saas

Answer: B

Explanation:
 VDI is a technology that allows a company to provide desktop environments to third-party developers while still maintaining control over the corporate network. VDI creates virtual desktops on a remote server, and each user gets their own desktop environment that is isolated from the other users. This allows the company to maintain control over the corporate network, as the virtual desktops are not directly connected to the corporate network.

NEW QUESTION 151
- (Topic 2)
A technician is troubleshooting intermittent fuzzy video on a computer using a VGA to DisplayPort adapter to connect to a monitor. The monitor with a VGA connector was previously working tine for another user. The technician replaces the adapter; however, the issue persists. Which of the following should the technician do NEXT?

A. Use another brand of VGA lo DisplayPort adapter.
B. Research the issue further and formulate a new hypothesis to test.
C. Ask the user additional clarifying questions regarding the issue.
D. Document the action taken and the outcome.

Answer: C

Explanation:
 https://spryzensecurity.medium.com/what-is-troubleshooting-methodology- 40cec6b6494

The technician should ask the user additional clarifying questions regarding the issue. This will help to identify any other potential causes of the issue, such as software configuration or compatibility issues, before attempting any further troubleshooting steps.

NEW QUESTION 153
- (Topic 2)
Which of the following allows a switch to be divided into separate logical networks?

A. VLAN
B. SSL VPN
C. NAT
D. RADIUS

Answer: A

Explanation:
A Virtual LAN (VLAN) is a network topology that allows a switch to be divided into separate logical networks. This allows for the creation of multiple broadcast domains within a single physical network, improving network segmentation and security. With VLANs, you can segment your network so that different departments, applications, or users are isolated from each other, improving network security and performance.

NEW QUESTION 156
- (Topic 2)
A user is unable to plug a USB 3.0 device into a USB port. Upon inspection, a technician notices the USB 3.0 port appears to be slightly smaller than the other connections. Which of the following Is the MOST likely cause?

A. A foreign object Is stuck Inside the port
B. The cable connection utilized the wrong orientation.
C. The USB cable is physically damaged.
D. The USB port belongs to a different form factor.

Answer: D

Explanation:
USB 3.0 ports are slightly smaller than other USB connections, so if the port appears to be the wrong size, it is likely that the port belongs to a different form factor. This can be caused by a number of factors, such as the device being too old to support USB 3.0, or the device not having a USB 3.0 port in the first place.

NEW QUESTION 158
- (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 160
- (Topic 2)
A university student was able to boot from a live Linux CD on a computer in a shared space on campus. Which of the following will BEST prevent this type of action from occurring in the future?

A. Require TPM security features.
B. Set a boot password.
C. Disable all media options.
D. Enable secure boot.

Answer: D

Explanation:
Enabling secure boot will verify the digital signature of the bootloader and operating system, ensuring that the system only boots from trusted and authorised sources. This can prevent booting from an unauthorised live CD or other external media. The best way to prevent booting from a live Linux CD on a computer in a shared space on campus is to enable secure boot. Secure boot is a feature that ensures that the system only runs software that is signed by an authorized party.

This means that the system will not boot from any unauthorized media, including live Linux CDs.

Secure Boot is a feature that ensures that the system only runs software that is signed by an authorized party. This means that the system will not boot from any unauthorized media, including live Linux CDs. Secure Boot is an important security feature designed to prevent malicious software from loading when your PC starts up (boots)1.

Booting from a live Linux CD is a process that allows you to run a Linux operating system from a CD or DVD without installing it on your hard drive. This can be useful for testing or troubleshooting purposes. To boot from a live Linux CD, you need to insert the CD or DVD into your computer's CD/DVD drive and restart your computer. Most systems are set up to automatically boot from the CD/DVD drive, but if your system is not set up this way, you may need to change a system setting to boot from a Linux CD/DVD23.

NEW QUESTION 162
- (Topic 2)
A technician is working on a help desk ticket for a user who wants the filament replaced in a 3-D printer. Which of the following should the technician do to remove the old filament and load the new one?

A. Preheat the nozzle to melting temperature.
B. Cut a sharp angle on the end of the strand.
C. Push the filament along until resistance is felt.
D. Withdraw the filament and remove the spool.

Answer: D

Explanation:
A technician is working on a help desk ticket for a user who wants the filament replaced in a 3-D printer. To remove the old filament and load the new one, the technician should preheat the nozzle to melting temperature. After the nozzle is heated, the technician should withdraw the filament and remove the spool. Then, cut a sharp angle on the end of the new strand, and push it along until resistance is felt.

NEW QUESTION 165
- (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 168
- (Topic 2)
A technician installed a new router at a small office. After the Installation, the technician notices that all devices have a I69.254.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 173
- (Topic 2)
The IT department at an insurance brokerage needs to acquire laptops that have built-in fingerprint readers in order to create a more secure environment. Which of the following would be the MOST secure way to implement the fingerprint readers?

A. Grant all registered employees access to each machine.
B. Restrict device access to only the user to whom the laptop is assigned.
C. Limit device access to departments and guest users.
D. Give each team member a USB drive that bypasses the reader to allow guest users lo log in.

Answer: B

Explanation:
The most secure way to implement fingerprint readers would be to restrict device access to only the user to whom the laptop is assigned. This ensures that only

authorized personnel have access to the device, reducing the risk of unauthorized access and data breaches.

NEW QUESTION 174
- (Topic 2)
A new version of Windows was released and a piece of software vital to the engineering department will not run on the new version. Which of the following is the BEST option to enable this department to be able to continue using this software?

A. Do not upgrade any workstations within the organization.
B. Upgrade all workstations and provide a virtual environment for the legacy software.
C. Upgrade all workstations except those used by the engineering department.
D. Purchase new workstations for the engineering department.

Answer: B

Explanation:
Upgrading all workstations and providing a virtual environment for the legacy software is the best option, as it allows the engineering department to continue using the vital software while also upgrading to the latest version of Windows. This also ensures that the rest of the organization can take advantage of the latest software and security features.

NEW QUESTION 178
- (Topic 2)
A systems administrator is attempting to resolve a ticket regarding an issue with an email server. The administrator is covering for a coworker who was previously working on the ticket. The coworker already gathered facts about the issue and spoke with users concerning their missing emails. The coworker also discovered the email server's retention policy was updated shortly before users first noticed the issue. Which of the following should the systems administrator do NEXT to resolve the email issue?

A. Escalate the ticket to a higher level to resolve the email server issue.
B. Test a theory to determine the cause of the email server issue.
C. Establish a theory of probable cause for the email server issue.
D. Create a plan of action to resolve the email server issue.

Answer: C

Explanation:
Before attempting to resolve the issue, it is important to first determine the cause or probable cause of the issue, so that a plan of action can be developed. In this case, the fact that the retention policy was updated shortly before users first noticed the issue suggests that this could be the cause of the issue. The systems administrator should investigate this further to determine if this is indeed the cause of the email server issue.

NEW QUESTION 180
- (Topic 2)
A technician set up a new access point and has noticed significant latency on the selected channel. Which of the following tools can assist with locating the BEST channel to use?

A. Wi-Fi analyzer
B. Netstat
C. Net use
D. Traceroute
E. Network tap

Answer: A

Explanation:
A Wi-Fi analyzer is a tool that can be used to scan the local area for available wireless networks and can provide information such as signal strength, interference, and available channels. It can also be used to locate the best channel to use for a given access point, which can help to reduce latency and improve performance.

NEW QUESTION 183
- (Topic 2)
A new employee has been issued a company laptop. The employee requests an accessory with a single power source that has wired network connectivity and supports a keyboard, mouse, speakers, and dual monitors. Which of the following accessories should the systems administrator deploy to BEST meet the new user's needs?

A. Poe switch
B. USB-C hub with power delivery
C. Docking station with DisplayPort
D. KVM switch with audio

Answer: C

Explanation:
A docking station is a hardware accessory that allows laptops to connect to multiple peripherals and devices with a single connection. A docking station with DisplayPort would provide the necessary connectivity for the dual monitors, and it can also support the required peripherals such as the keyboard, mouse, and speakers. In addition, it will provide a wired network connectivity for faster and more reliable network access.

NEW QUESTION 187
- (Topic 2)
The IT department issued a corporate smartphone to a user, but the user returned the device stating it had connectivity Issues. The user claimed the device functioned on WI-FI but all connectivity to cloud services was lost as soon as the device was taken off site. Which of the following issues was MOST likely affecting the device?

A. MDM was never properly set up on the device.
B. S/MIME certificates were corrupted and needed to be reloaded.
C. Bluetooth on the device was disabled by mistake.
D. The device never had a proper SIM card installed.

Answer: D

Explanation:
A SIM card is needed for the device to use cellular network services, so without it, the device will be unable to connect to the cloud services when taken off site. MDM (Mobile Device Management) can be used to manage settings and access on a device, but it is not necessary for the device to be able to use cloud services. S/MIME (Secure/Multipurpose Internet Mail Extensions) certificates are used to encrypt and digitally sign emails, and are not related to device connectivity. Bluetooth can be used to connect devices together, but it is not necessary for the device to be able to use cloud services.

NEW QUESTION 191
- (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 serve1r. 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 functional1. The other options are less likely to be the cause of the issue1.

NEW QUESTION 196
HOTSPOT - (Topic 3)
A customer has contacted you about building two new desktops. The first desktop will be a gaming workstation. The customer requirements include:
Playing the newest games at a high frame rate Fast game load times
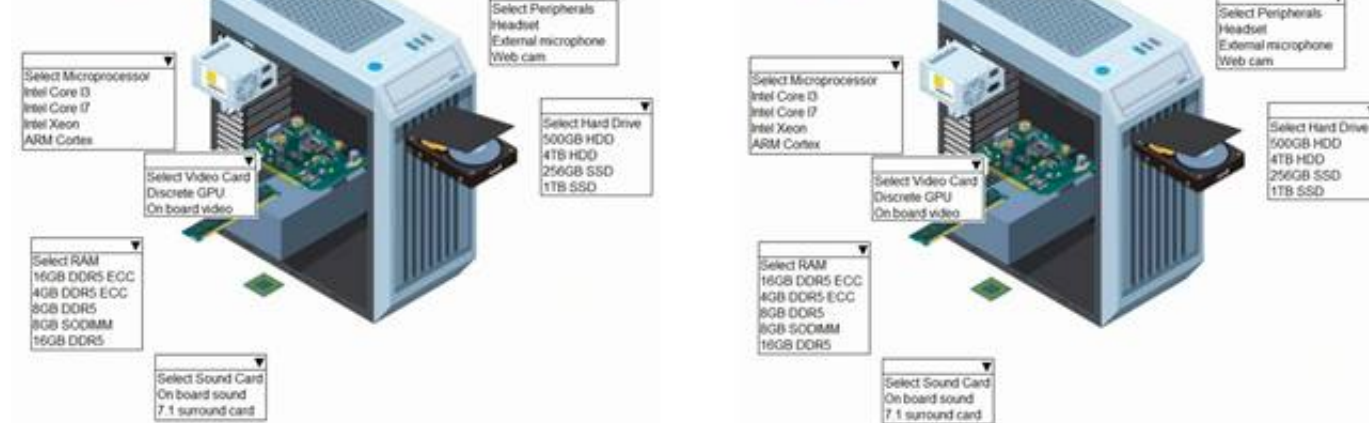Enough storage to have several games installed at once High-end audio
No concern about cost
Running the current Windows OS
The second workstation will be a family workstation. The requirements include: Capability for word processing, videoconferencing, and basic web surfing Minimal cost, as long as it meets the requirements
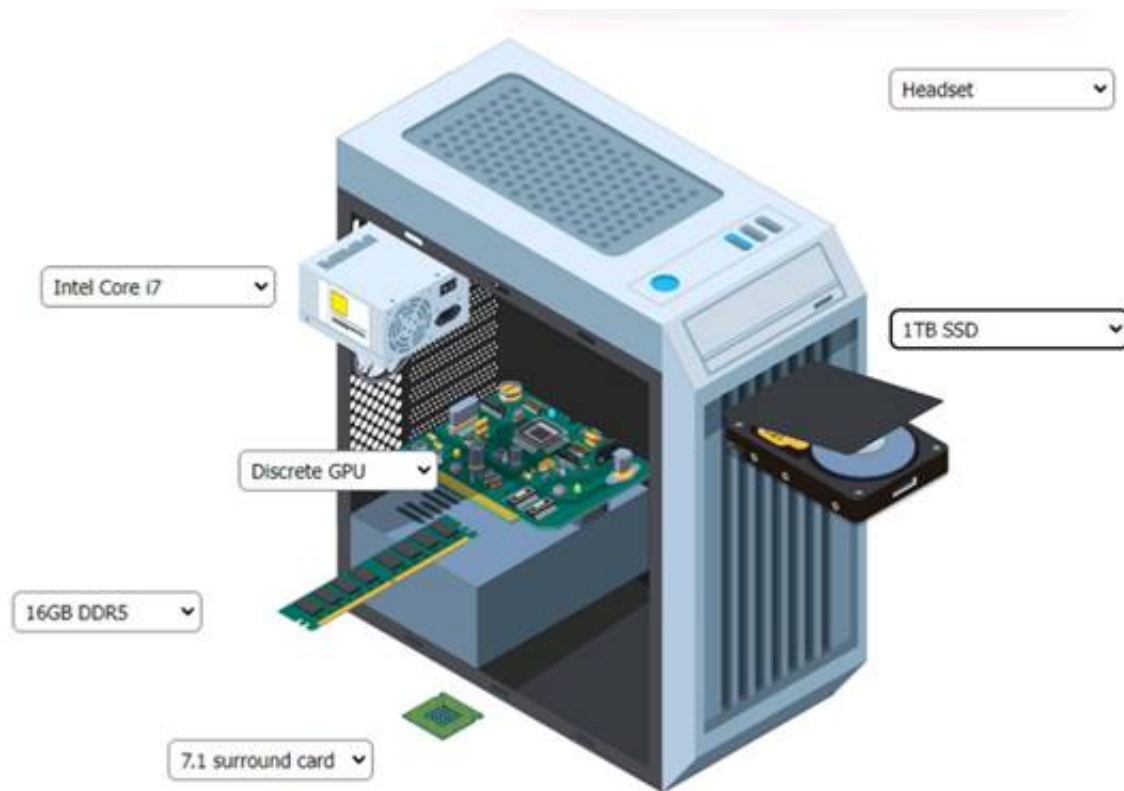Running the current Windows OS

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Headset ⌄

Intel Core i7 ⌄

1TB SSD ⌄

Discrete GPU ⌄

16GB DDR5 ⌄

7.1 surround card ⌄

NEW QUESTION 201
- (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 202
- (Topic 3)
Following a scheduled power outage, users report they cannot access the local intranet. A technician is able to ping the IP address of the server that is hosting the website. Which of the following serves is MOST likely offline?

A. Web
B. DNS
C. File
D. DHCP

Answer: B

Explanation:
DNS stands for Domain Name System and is a service that translates domain names (such as www.example.com) into IP addresses (such as 192.168.1.100) that computers can use to communicate over a network. If the DNS server is offline, users may not be able to access websites or other network resources by using their domain names, even if they are online and reachable by their IP addresses. The technician should check if the DNS server is running and configured correctly, or use an alternative DNS
server if possible. Reference: https://www.comptia.org/training/books/a-core-1-220-1101- study-guide (page 81)

NEW QUESTION 206
- (Topic 3)
Atechnician is replacing all RJ45 cables in a customer environment. Which of the following are the BEST tools to execute the task? (Select TWO).

A. Optical fiber tester
B. Scissors
C. Cable tester
D. Crimper
E. Coaxial cable
F. Screwdriver

Answer: CD

Explanation:
A cable tester and a crimper are the best tools to execute the task of replacing all RJ45 cables in a customer environment. A cable tester can be used to check the continuity and quality of a cable, and a crimper can be used to attach RJ45 connectors to the ends of a cable. An optical fiber tester is a tool that can be used to test fiber optic cables, which are not RJ45 cables. Scissors are not a tool for replacing cables, but for cutting them. A coaxial cable is a type of cable that has a single copper conductor at its center, which is not an RJ45 cable either. A screwdriver is not a tool for replacing cables, but for fastening or loosening screws.

NEW QUESTION 207
- (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 209
- (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 212
- (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 214
- (Topic 3)
Which of the following video cables can carry an audio signal?

A. HDMI
B. S-Video
C. VGA
D. DVI

Answer: A

Explanation:
 This is because HDMI (High-Definition Multimedia Interface) is a digital video cable that can also carry audio signals1. HDMI cables are commonly used to connect devices like Blu-ray players, game consoles, and streaming boxes to HDTVs and monitors. The other options are not capable of carrying audio signals. VGA (Video Graphics Array) is an analog video cable that only carries RGBHV signals12. S-Video (Super Video) is another analog video cable that carries separate luminance and chrominance signals1. DVI (Digital Visual Interface) is a digital video cable that can carry either analog or digital signals, but not audio1.

NEW QUESTION 216
- (Topic 3)
A technician receives an alert indicating all VMs are down. After some troubleshooting, the technician discovers the network is out of space. To resolve the issue, the technician decides to add more space. Which of the following network types will the technician be working with?

A. SCSI
B. NAC
C. SAN
D. WISP

Answer: C

Explanation:
A storage area network (SAN) is the type of network that the technician will be working with when adding more space to resolve the issue of all VMs being down due to the network being out of space. A SAN is a network that provides access to consolidated and block-level data storage, which can be used for virtualization and backup purposes. SCSI is a type of interface that connects devices such as hard drives and optical drives to a computer. NAC is a type of security solution that controls access to a network based on policies and device compliance. WISP is a type of internet service provider that delivers wireless broadband access over long distances.

NEW QUESTION 220
- (Topic 3)
A technician is troubleshooting a laptop that has a blank LCD panel. The technician shines a flashlight into the LCD and sees a faint image. Which of the following BEST describes the issue?

A. Defective inverter
B. Incomplete video driver
C. Incorrect input source
D. Burned-out bulb

Answer: A

Explanation:
an inverter is a device that converts DC power from the laptop's battery or AC adapter to AC power for the backlight of the LCD panel. If the inverter is defective, the backlight will not work and the LCD panel will appear blank or very dim. The user can still see a faint image if they shine a flashlight into the LCD because the LCD itself is still working.

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 229
- (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 232
- (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 233
- (Topic 3)
A technician needs to install RAM into a rackmount server that will be used as a VM host. Which of the following would be BEST to install?

A. SODIMM
B. VRAM
C. DDR4
D. ECC

Answer: D

Explanation:
When installing RAM into a server that will be used as a VM host, it is recommended to install ECC (Error-Correcting Code) RAM to help prevent errors that can cause virtual machines to crash. References: https://www.servermonkey.com/blog/ecc-vs- non-ecc-ram-what-are-the-differences.html
When installing RAM into a rackmount server that will be used as a VM host, it would be best to install ECC (Error Correcting Code) RAM which can detect and correct common types of data corruption.

NEW QUESTION 238
- (Topic 3)
Which of the following cloud-computing concepts describes an application that is hosted on the internet but can be used and configured as needed internally per organization?

A. Hybrid cloud
B. Public cloud
C. IaaS
D. SaaS
E. PaaS

Answer: E

Explanation:
Platform as a service (PaaS) is a cloud-computing concept that describes an application that is hosted on the internet but can be used and configured as needed internally per organization. PaaS provides a platform for developing, testing, deploying, and managing applications without having to maintain the underlying infrastructure or software. Hybrid cloud is a combination of public and private cloud services that share data and resources. Public cloud is a cloud computing model that provides services and resources to anyone over the internet. Infrastructure as a service (IaaS) is a cloud computing model that provides servers, storage, networking, and software over the internet

NEW QUESTION 240
- (Topic 3)
A user's track pad has stopped working. Which of the following should the user do to resolve the track pad's functionality?

A. Reinstall the mouse drivers
B. Use the Function key.
C. Calibrate the digitizer
D. Configure the mouse settings.

Answer: B

Explanation:
The correct answer is B. Use the Function key.
The explanation is that some laptops have a Function key (Fn) that can be used to toggle the track pad on or off. This can be useful if the user wants to use an external mouse instead of the track pad, or if the track pad is accidentally activated by palm movements. The user should look for a Fn key on their keyboard and a track pad icon on one of the other keys, such as F5 or F9, and press them together to enable or disable the track pad.

NEW QUESTION 244
- (Topic 3)
A drive failed on a server that was leveraging a RAID disk configuration. The server administrator would like to rebuild the array so it can withstand a potential multidrive failure in the future. Which of the following RAID configurations will the administrator MOST likely select?

A. 1
B. 5
C. 10

Answer: D

Explanation:
RAID stands for Redundant Array of Independent Disks, which is a technology that combines multiple disks into a logical unit to improve performance, reliability, or both. There are different types of RAID levels that use different methods of data distribution and redundancy.
RAID 0 is a level that stripes data across multiple disks without any redundancy. It offers the highest performance but no fault tolerance. If any disk fails, the entire array is lost. RAID 1 is a level that mirrors data across two disks. It offers the lowest performance but the highest fault tolerance. It can survive the failure of one disk.
RAID 5 is a level that stripes data across multiple disks with parity information. It offers a balance between performance and fault tolerance. It can survive the failure of one disk, but not two or more disks.
RAID 10 is a level that combines RAID 1 and RAID 0. It creates a striped array of mirrored pairs. It offers high performance and high fault tolerance. It can survive the failure of one disk in each pair, or multiple disks in different pairs.
Therefore, if the server administrator wants to rebuild the array to withstand a potential multidrive failure in the future, RAID 10 is the most likely choice.

NEW QUESTION 248
- (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 253
- (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 255
- (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 258
- (Topic 3)
A user's touch-screen tablet is having an issue with the screen orientation. Which of the following is MOST likely causing this issue?

A. The screen rotation is locked
B. The screen protector on the tablet is damaged
C. The touch-screen digitizer is malfunctioning
D. The inverter is misconfigured

Answer: A

Explanation:
The screen rotation is locked. If a user's touch-screen tablet is having an issue with screen orientation, it could be due to screen rotation being locked in device settings.
If the screen rotation is locked, the touch-screen tablet will not rotate the screen when the device is turned. This can usually be unlocked in the settings or by pressing a specific key combination. References: https://www.howtogeek.com/254132/how-to-enable-screen-rotation-on-windows-10/

NEW QUESTION 260
- (Topic 3)
Which of the following is an unsecure remote access protocol?

A. SSH
B. HTTPS
C. SFTP
D. Telnet

Answer: D

Explanation:
Telnet is an unsecure remote access protocol that allows a user to connect to a remote device and execute commands on it12. Telnet does not encrypt the data

that is transmitted between the user and the device, which means that anyone who intercepts the network traffic can read the information, including usernames and passwords12. Telnet also does not authenticate the user or the device, which means that anyone can impersonate either party and gain unauthorized access1.

NEW QUESTION 265
- (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 270
- (Topic 3)
The motherboard on a user's company laptop was recently replaced Now the user is unable to log in using the fingerprint reader The fingerprint reader is working but it does not recognize the user's fingerprint Which of the following should a technician perform FIRST to fix the issue?

A. Restore the system to a previous recovery point
B. Reinstall the fingerprint software
C. Access the BIOS and clear the TPM
D. Update the drivers and the fingerprint software
E. Flash the newest BIOS firmware that is available

Answer: B

Explanation:
If a user is unable to log in using the fingerprint reader on a company laptop after the motherboard was replaced, it could be due to an issue with the fingerprint software. The first step to fix the issue would be for the technician to reinstall the fingerprint software.

NEW QUESTION 272
DRAG DROP - (Topic 3)
A natural disaster occurred, and the storage system for the development team is unrecoverable. The technician is preparing replacement storage arrays that include a hypervisor with the capacity to support several virtual machines. Two separate bays are available, and both should be utilized.
Requirements for the primary array include the following:
• No need to be scalable
• Very fast on reads
• Fault tolerance of one drive
• Ability to function with only one drive
• Easily recoverable data
• High redundancy
• Minimum number of drives
Requirements for the secondary array include the following:
• Fault tolerance of one drive
• Total space of 600G3
• Best write performance
• Minimum number of drives Instructions:
Drag and Drop the appropriate Hard Drives. Then Open each array to complete the configuration.

A. Mastered

B. Not Mastered

Answer: A

Explanation:
Primary Array:
? Drag and drop two 120 GB SSD hard drives to the primary array bay.
? Open the primary array and select RAID 1 as the RAID level. RAID 1 provides fault tolerance of one drive, ability to function with only one drive, easily recoverable data, high redundancy, and very fast on reads. It also does not need to be scalable and uses the minimum number of drives (two) for RAID 1.
? Confirm the configuration and close the primary array. Secondary Array:
? Drag and drop two 300 GB SSD hard drives to the secondary array bay.
? Open the secondary array and select RAID 0 as the RAID level. RAID 0 provides the best write performance and uses the minimum number of drives (two) for RAID 0. It also provides a total space of 600 GB (300 GB x 2), which meets the requirement.
? Confirm the configuration and close the secondary array.
You have completed the configuration of the storage arrays.

NEW QUESTION 273
- (Topic 3)
Users report that all copies produced on a copter have a solid black line, but printing is unaffected. Which of the following is the MOST likely cause?

A. Failing imaging drum
B. A scratch on the scanning bed
C. Bad output tray
D. Damaged (user

Answer: B

Explanation:
A scratch on the scanning bed of a copier can cause a solid black line to appear on all copies, as the scanner cannot read the original document properly through the scratch. The scratch can also reflect light and create noise in the scanned image. The printing function is unaffected by the scratch, as it does not use the scanning bed. The technician should inspect and clean the scanning bed, and replace it if necessary. Reference: https://partners.comptia.org/docs/default-source/resources/a-core-1-content- guide (page 16)

NEW QUESTION 274
- (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 275
- (Topic 3)
A user is having an issue with the touch screen on a mobile device. When the user touches the screen, the intended target is not selected. Which of the following would be the BEST action for a technician to take to resolve the issue?

A. Calibrate the touch screen.
B. Reset the mobile device.
C. Replace the LED screen.
D. Update the mobile device.

Answer: A

Explanation:
Calibrating the touch screen is the best action to resolve the issue of inaccurate touch input. Calibration adjusts the touch screen's sensitivity and alignment to match the user's touch. Resetting the mobile device could erase user data and settings and may not fix the touch screen issue. Replacing the LED screen or updating the mobile device are unnecessary and costly actions that may not solve the problem.

NEW QUESTION 279
- (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 282
- (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
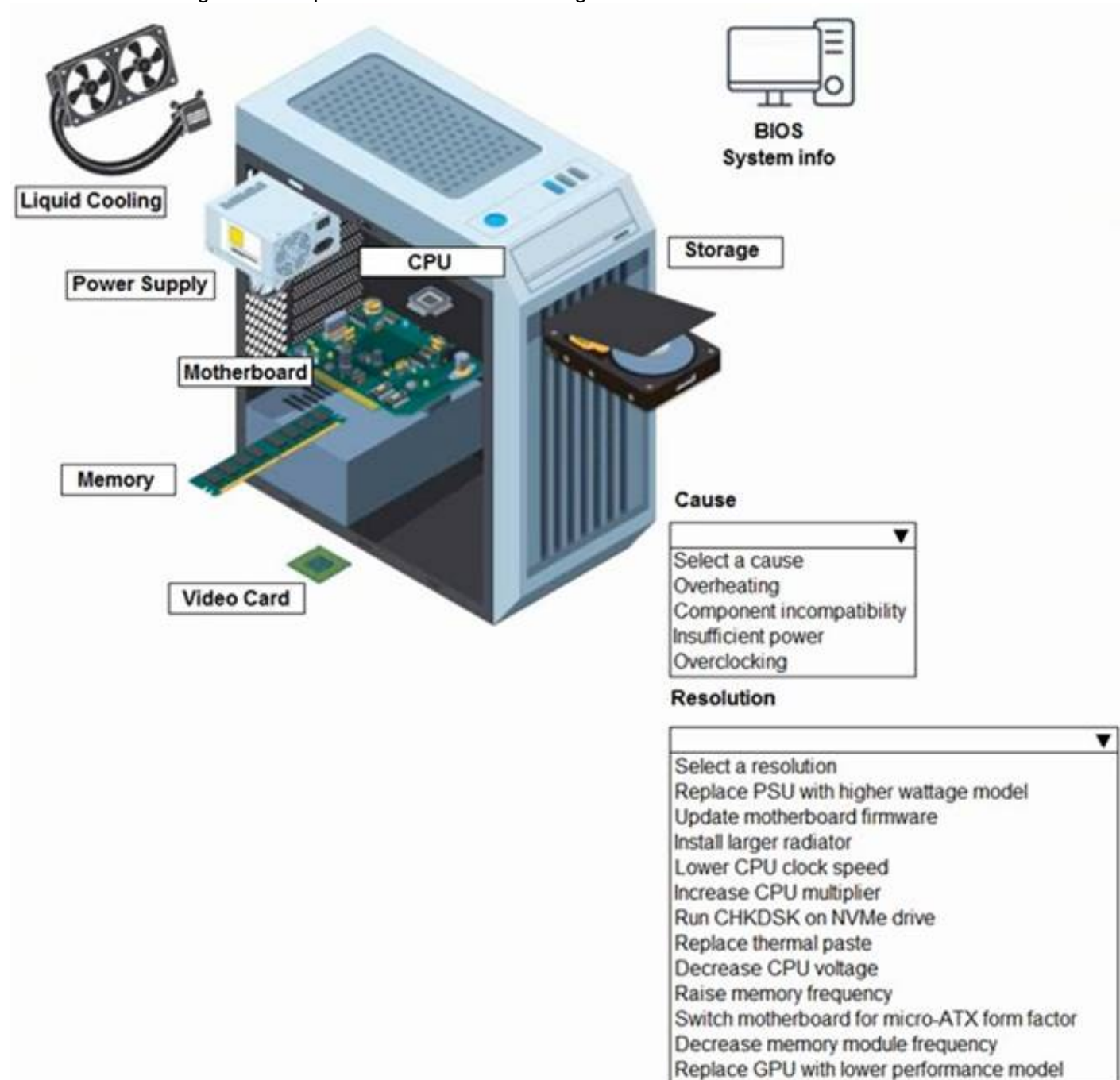
Answer: B

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 283
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 286
- (Topic 3)
A technician is troubleshooting connectivity issues and needs to promiscuously route a copy of traffic to a separate machine for analysis. Which of the following physical tools v/ould BEST accomplish this task?

A. Toner probe
B. Wi-Fi analyzer
C. Network tap
D. Loopbackplug

Answer: C

Explanation:
 A network tap is a physical device that allows promiscuous monitoring of network traffic by creating a copy of the data packets for analysis. A toner probe is used to trace and identify cables. A Wi-Fi analyzer is used to measure wireless signal strength and interference. A loopback plug is used to test network ports or cables by sending and receiving signals from the same device.

NEW QUESTION 290
- (Topic 3)
A user's laptop is running out of disk space and requires a new hard drive. The user wants to replace the existing hard drive with the fastest possible I TB HDD. A technician assesses the user's hardware and determines the connections that are available. Which of the following drive types should the technician recommend as the BEST choice?

A. 1TB NVMe SSD
B. 1TB flash drive
C. 1TB SATA SSD
D. 1TB SAS

Answer: A

Explanation:
 The best choice for the user's laptop is a 1TB NVMe SSD. NVMe (Non- Volatile Memory Express) is a high-performance storage protocol designed specifically for solid-state drives (SSDs). It is significantly faster than SATA SSDs and SAS hard drives, making it ideal for users who need fast storage for their laptop. NVMe SSDs also have lower latency and higher bandwidth than traditional hard drives, making them well-suited for data-intensive tasks such as video editing, gaming, and running multiple applications simultaneously. Additionally, NVMe offers more reliable data reliability than traditional hard drives, and is less susceptible to performance degradation over time.

NEW QUESTION 293
- (Topic 3)
A user wants RAID to be configured on a desktop to allow the fastest speed and maximum storage capacity. Which of the following RAID types should a technician configure to accommodate this request?

A. 1
B. 5
C. 10

Answer: A

Explanation:
 RAID 0 is a configuration that stripes data across multiple disks without parity or redundancy. It provides the fastest speed and maximum storage capacity among the RAID types listed, but it also has no fault tolerance. RAID 1 mirrors data across two disks, providing redundancy but halving the storage capacity. RAID 5 stripes data across three or more disks with parity, providing fault tolerance but reducing the storage capacity by one disk. RAID 10 combines mirroring and striping across four or more disks, providing both speed and redundancy but reducing the storage capacity by half.

NEW QUESTION 296
- (Topic 3)
Which of the following components houses the MX record?

A. DNS
B. VLAN
C. DHCP
D. SMTP

Answer: A

Explanation:
The MX record is housed in the DNS (Domain Name System) which is responsible for translating domain names into IP addresses and vice versa. The MX record specifies the mail server responsible for accepting email messages on behalf of a domain name and is a resource record in the DNS123.

NEW QUESTION 298
- (Topic 4)
A technician is configuring a desktop RAID to allow for the best I/O performance and the most storage capacity possible. Which of the following RAID types should the technician use?

A. 5
B. 6
C. 10

Answer:

A

Explanation:
RAID 0 is a disk array configuration that splits data across two or more disks without parity or mirroring. RAID 0 provides the best I/O performance because it allows parallel read and write operations on multiple disks. RAID 0 also provides the most storage capacity possible because it does not use any disk space for redundancy. However, RAID 0 does not provide any fault tolerance and increases the risk of data loss if any disk fails. References: The Official CompTIA A+ Core 1 Student Guide (Exam 220-1101) eBook, page 252

NEW QUESTION 300
- (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 304
- (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 308
- (Topic 4)
A laser printer, which is located in a large office, has a leaky toner cartridge. Some toner spilled into the printer when the cartridge was removed.
Which of the following is the best way to clean up the toner?

A. Magnetic duster
B. ESD-safe vacuum
C. Compressed air
D. Damp cloth

Answer: B

Explanation:
The best way to clean up the toner that spilled into the printer is to use an ESD-safe vacuum. An ESD-safe vacuum is a special type of vacuum that has a filter that traps toner particles and prevents them from escaping into the air. An ESD-safe vacuum also has a grounding wire that prevents static electricity from building up and damaging the printer's components. Toner is electrically conductive and can cause short circuits or sparks if it contacts sensitive parts of the printer. Therefore, using an ESD-safe vacuum is the safest and most effective method to remove the toner from the printer.
Other methods, such as a magnetic duster, compressed air, or a damp cloth, are not recommended for cleaning up toner spills. A magnetic duster is a device that uses a magnet to attract toner particles, but it can also damage the printer's components that rely on magnetism, such as the drum or the fuser. Compressed air can blow the toner around and create a cloud of dust that can be harmful to breathe or contaminate other parts of the printer. A damp cloth can smear the toner and make it harder to remove, as well as cause corrosion or rust on the printer's metal parts.
References:
? Cleaning up Toner Spills or Leaks Inside the Printer - Xerox Support1
? How to Clean Up Toner Spills - YouTube2
? How to Clean up a Laser Toner Spill - Cartouches Certifiées3

NEW QUESTION 311
- (Topic 4)
A technician is installing a network interface card in a desktop computer. Which of the following connectors should the technician use to connect the card to the computer's motherboard?

A. PCIe
B. AGP
C. USB
D. IDE

Answer: A

Explanation:
PCIe (Peripheral Component Interconnect Express) is a type of expansion slot that connects network interface cards (NICs) and other devices to the motherboard. PCIe slots have different sizes and speeds, such as x1, x4, x8, x16, and x32. PCIe slots are faster and more versatile than older types of expansion slots, such as AGP (Accelerated Graphics Port) and IDE (Integrated Drive Electronics).
References: The Official CompTIA A+ Core 1 Student Guide (Exam 220-1101) eBook, page 2-13.

NEW QUESTION 312
- (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 313
- (Topic 4)
A user attempts to connect a laptop to a projector but receives the following message from the projector: Out of Range. Which of the following needs to be addressed first?

A. Change the resolution settings.
B. Check the video cable and replace it if necessary.
C. Set the computer's display settings to extend/duplicate.
D. Verify that the laptop video card driver is the most up-to-date version.

Answer: A

Explanation:
The most likely answer is A. Change the resolution settings.
The error "Out of Range" normally means that the resolution being output by the computer is not compatible with the projector. The resolution is the number of pixels that are displayed on the screen. If the resolution is too high for the projector, it may not be able to display the image correctly or at all12.
To resolve this issue, you should try lowering the resolution settings on your laptop to match the native resolution of the projector or a lower one. You can do this by following these steps1:
•Right-click on an empty area of your desktop and select Display settings.
•Under Scale and layout, click on Display resolution and choose a lower option from the drop-down menu.
•Click Apply and then Keep changes.
•Reconnect your laptop to the projector and check if the image is displayed properly.
If changing the resolution settings does not help, you may need to check other factors,

such as the video cable, the display settings, or the video card driver. However, these are less likely to cause the "Out of Range" error than the resolution settings.

NEW QUESTION 314
- (Topic 4)
A systems administrator needs to set up a multifunction printer for the legal department. The legal department deals with sensitive documents and requires a secure method of releasing print jobs. Which of the following should the systems administrator configure to meet the department's security requirements?

A. SMB settings
B. User authentication
C. Audit logging
D. Wired connection

Answer: B

Explanation:
 This option requires the user to enter a PIN code or swipe a smart card before the printer releases their print job. This way, the user can verify their identity and ensure that no one else can access their sensitive documents.
The other options are not as secure or effective as user authentication. SMB settings are used to share files and printers over a network, but they do not provide a secure method of releasing print jobs. Audit logging records the details of each print job, but it does not prevent unauthorized access to the printed documents. Wired connection reduces the risk of wireless interference or hacking, but it does not guarantee that the print jobs are only retrieved by the intended recipient.

NEW QUESTION 318
- (Topic 4)
A user reports a monitor, keyboard, mouse. and headset are no longer functioning. The user has restarted the laptop and tested an alternative headset and monitor, but the issue persists. The technician notices the user has a printer. USB-C hub, and AC adapter plugged into the laptop. Which of the following should the technician do to MOST likely resolve the issue?

A. Verify the AC adaptor voltage.
B. Repair the operating system.
C. Replace the user's USB-C hub.
D. Reinstall the drivers for affected devices.
E. Make sure the printer is not drawing too much power.

Answer: C

Explanation:
 The most likely cause of the issue is that the user's USB-C hub is faulty or incompatible with the laptop. The USB-C hub is a device that allows the user to connect multiple peripherals to the laptop using a single USB-C port. If the hub is not working properly, it may prevent the monitor, keyboard, mouse, and headset from functioning. The technician should replace the user's USB-C hub with a new one that is compatible with the laptop and test the peripherals again. Verifying the AC adapter voltage will not help with the issue, as the AC adapter is used to power the laptop, not the peripherals. Repairing the operating system will not help either, as the issue is not related to software. Reinstalling the drivers for affected devices may not help, as the issue may be caused by the hub, not the devices. Making sure the printer is not drawing too much power is irrelevant, as the printer is not connected to the hub or affecting the other peripherals. References: https://www.comptia.org/blog/what-is-usb-c

NEW QUESTION 320
- (Topic 4)
An administrator is replacing 15.000rpm hard drives in a server. Which of the following is the interface type the drives most likely use?

A. IDE
B. SAS
C. eSATA
D. SATA

Answer: B

Explanation:
 SAS (Serial Attached SCSI) is an interface type that supports high-speed data transfer and high-performance hard drives, such as 15,000rpm drives. SAS drives are commonly used in servers that require fast access and reliability. IDE (Integrated Drive Electronics), eSATA (external SATA), and SATA (Serial ATA) are not suitable for 15,000rpm drives, as they have lower speed and performance.
Reference: [CompTIA A+ Core 1 (220-1101) Certification Study Guide], page 22.

NEW QUESTION 321
- (Topic 4)
A systems administrator is working to ensure access to corporate laptops is limited to authorized users. The administrator has already implemented a password policy. Which of the following would be the best option to help the administrator secure the corporate resources?

A. Trusted Platform Module
B. Biometric scanner
C. Laptop lock
D. Encryption

Answer: B

Explanation:
The best option to help the administrator secure the corporate resources is B. Biometric scanner.
A biometric scanner is a device that can authenticate a user's identity based on their physical or behavioral characteristics, such as fingerprint, iris, face, voice, or signature. A biometric scanner can provide a high level of security and convenience for accessing corporate laptops, as it can prevent unauthorized users from accessing the devices and eliminate the need to remember passwords .
The other options are not the best options for this scenario. A Trusted Platform Module (TPM) is a chip that can store encryption keys and other sensitive data on a

laptop. A TPM can enhance the security of data and devices, but it does not limit access to authorized users by itself. A TPM can work with a password or a biometric scanner to provide multifactor authentication . A laptop lock is a device that can physically secure a laptop to a desk or other object using a cable and a lock. A laptop lock can deter theft or tampering, but it does not prevent unauthorized users from accessing the laptop if they have the password or the key. Encryption is a process that can protect data on a laptop by transforming it into an unreadable format using a key. Encryption can prevent unauthorized users from accessing or modifying the data, but it does not prevent them from accessing the laptop itself.

NEW QUESTION 325
- (Topic 4)
A technician is upgrading the memory on a server that processes payment information online. Which of the following types of memory would the technician most likely install?

A. DDR4
B. VRAM
C. SODIMM
D. ECC

Answer: D

Explanation:
ECC stands for Error Correction Code, which is a type of memory that can detect and correct data errors that may occur during processing or transmission. ECC memory is commonly used in servers that handle sensitive or critical information, such as payment information online, because it can reduce the risk of data corruption, system crashes, or security breaches12.
DDR4 is a generation of DDR technology, which stands for Double Data Rate. DDR4 memory is faster and more power-efficient than its predecessors, but it does not necessarily have ECC functionality. DDR4 memory can be either ECC or non-ECC1. VRAM is Video RAM, which is a type of memory that is dedicated to storing graphics data for display. VRAM is usually found on graphics cards or integrated graphics processors, not on servers3.
SODIMM is Small Outline DIMM, which is a type of memory module that has a smaller size and lower profile than regular DIMMs. SODIMMs are typically used in laptops, notebooks, or other compact devices, not on servers3.

NEW QUESTION 329
- (Topic 4)
An engineer is setting up two-factor authentication so users can access a company's human resources system. Which of the following should the engineer require users to do?

A. Use a mobile authenticator application.
B. Connect to the company's Wi-Fi.
C. Connect through the VPN.
D. Use a bastion server.

Answer: A

Explanation:
Two-factor authentication (2FA) is a method of verifying a user's identity by requiring two pieces of evidence: something the user knows (such as a password) and something the user has (such as a device). A mobile authenticator application is a software program that runs on a smartphone or tablet and generates a one-time code or token that the user can enter along with their password to access a system. This adds an extra layer of security to prevent unauthorized access.
References
•The Official CompTIA A+ Core 1 Student Guide (Exam 220-1101), page 13-14
•CompTIA A+ Certification Exam Core 1 Objectives, page 9, objective 2.5
•What is Two-Factor Authentication?

NEW QUESTION 332
- (Topic 4)
After a company upgraded its network infrastructure, a user's desktop has been experiencing slow network speeds. Which of the following should a technician do first to improve desktops connectivity performance?

A. Update the NIC drivers
B. update the BIOS firmware.
C. Replace the motherboard
D. Replace the patch cable

Answer: D

Explanation:
 The technician should replace the patch cable that connects the desktop to
the network switch or outlet. The patch cable may be damaged or incompatible with the upgraded network infrastructure, which can cause slow network speeds. According to the CompTIA Core1 objectives, one of the common symptoms of a bad cable is slow transfer speeds. A research paper on network performance also states that cable quality and length can affect network speed.

NEW QUESTION 333
- (Topic 4)
An application developer formats and reconfigures a development PC after every application test is complete. Which of the following is the best way to improve the efficiency of this process?

A. Installing an SSD
B. Implementing a sandbox
C. Disabling hyperthreading
D. Enabling hardware acceleration

Answer: B

Explanation:

The best way to improve the efficiency of the process of formatting and reconfiguring a development PC after every application test is complete is to implement a sandbox. A sandbox is a virtual environment that isolates the application from the rest of the system, allowing the developer to test the application without affecting the main operating system, files, or settings. A sandbox can also be easily reset, deleted, or duplicated, saving the time and effort of formatting and reconfiguring the PC. A sandbox can also provide security benefits, such as preventing malware or bugs from spreading to the system or the network.

Other options, such as installing an SSD, disabling hyperthreading, or enabling hardware acceleration, may improve the performance of the PC, but they do not address the issue of formatting and reconfiguring the PC after each test. An SSD (solid state drive) is a storage device that uses flash memory instead of spinning disks, and it can offer faster data access, lower power consumption, and less noise and heat. Hyperthreading is a feature of some CPUs (central processing units) that allows each core to run two threads simultaneously, increasing the multitasking and parallel processing capabilities of the PC. Hardware acceleration is a technique that uses the GPU (graphics processing unit) or other specialized hardware to perform some tasks faster than the CPU, such as rendering graphics, video, or audio.

References:
? What is a Sandbox? | How Does a Sandbox Work? | Avast1
? What is a Sandbox Environment? | Definition and FAQs2
? How to Use a Sandbox to Test Software - Lifewire3
? What is a Sandbox and How to Use One - Norton4
? What is a Sandbox? - Definition from Techopedia5

NEW QUESTION 338
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