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NEW QUESTION: 1
A company wants to use cloud services with the requirement that data will reside on physical hardware that will not be shared with other companies. Which of the following meets this requirement?
A. Dedicated resources
B. Elasticity
C. Hybrid cloud
D. SaaS
Answer: (SHOW ANSWER)
Dedicated resources (sometimes called single-tenant or bare metal) guarantee that physical hardware is allocated exclusively to one customer and not shared.

NEW QUESTION: 2
A user replaces their PC power supply and connects it to the components, but the PC fails to start. What is the most likely cause?
A. The computer requires additional RAM
B. The wattage is insufficient
C. The 4-pin CPU power connector is not connected
D. The PSU only works in redundant setups
Answer: (SHOW ANSWER)
Modern motherboards require both the 24-pin ATX connector and a 4-pin or 8-pin CPU power connector. If the CPU power connector is not attached, the motherboard will receive power but the system will not boot. CompTIA A+ specifically lists this as a common mistake after replacing a power supply.
Insufficient wattage may cause instability, but usually the system still attempts to start. RAM does not prevent power-on if missing; instead, the system produces beep codes. Redundant PSUs are used in servers, not standard desktops.

NEW QUESTION: 3
A company provides cell phones to employees who travel internationally. An employee brings their phone to the help desk so the necessary equipment can be installed. However, the technician cannot install any new hardware on the phone. Which of the following will the technician require so the phone can connect to a different provider?
A. USB-C
B. SD card

C. eSIM
D. MDM
Answer: (SHOW ANSWER)
An eSIM (embedded SIM) allows users to change carriers and provision new cellular service without installing any physical hardware. It is managed via software and is ideal for international travelers who need to switch providers quickly.

NEW QUESTION: 4
A financial institution's application sends a notification to customers when a nearby store accepts contactless payments. Which of the following should be enabled so the application works as intended? (Select two)
A. MDM
B. Contact syncing
C. Bluetooth
D. Hotspot
E. NFC
F. Location services
Answer: (SHOW ANSWER)
NFC (Near-Field Communication): Enables the device to communicate with contactless payment terminals, which is essential for detecting nearby stores that accept contactless payments.
Location services: Allows the application to determine the user's geographic location so it can provide notifications only when the user is near a participating store.

NEW QUESTION: 5
A technician is configuring a laptop that will be used in different locations. Which of the following IP configurations is the most appropriate?
A. DHCP reservation
B. APIPA
C. Static
D. Dynamic
Answer: D (LEAVE A REPLY)
A dynamic IP configuration allows the laptop to automatically receive an IP address from a DHCP server in any network it connects to. This ensures seamless connectivity across different locations without manual configuration.

NEW QUESTION: 6
A user reports that, despite manually changing the date and time on a computer, the changes always revert after the computer is turned off for a period of time. Which of the following should the technician consider first?
A. OS updates
B. CMOS battery
C. NTP server
D. RAM
Answer: (SHOW ANSWER)
The CMOS battery powers the real-time clock (RTC) on the motherboard, which maintains the date and time when the computer is turned off. If the battery fails, the system will lose date and time settings, reverting to defaults on restart.

NEW QUESTION: 7

A technician is putting RJ45 connectors on Cat 6 cables. Which of the following tools should the technician use to secure the connectors?
A. Crimping
B. Wire cutters
C. Loopback plug
D. Punchdown
Answer: (SHOW ANSWER)

NEW QUESTION: 8
Which of the following technologies is the best way to reduce hardware costs in a data center by allowing multiple operating systems to run on a single physical server?
A. Containerization
B. Cloud computing
C. Virtualization
D. Remote desktop services
Answer: (SHOW ANSWER)
Virtualization allows a single physical server to host multiple virtual machines (VMs), each running its own operating system and applications.
This reduces hardware costs because fewer physical servers are required to run multiple workloads, and it improves resource utilization, scalability, and management.

NEW QUESTION: 9
A customer reports that a text-only document prints with unrecognizable characters. The print preview correctly displays the document. Which of the following is the most likely cause of the issue?
A. Corrupted document file
B. Outdated firmware
C. Incorrect driver
D. Bad toner cartridge
Answer: (SHOW ANSWER)

NEW QUESTION: 10
A user's laptop monitor dims every evening. The user manually adjusts the screen setting but wants a permanent solution. Which of the following settings should a technician change to prevent the issue?
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A. Ambient light
B. Battery
C. Graphics
D. Scheduled tasks
Answer: (SHOW ANSWER)
Adaptive brightness uses ambient light sensors to automatically adjust screen brightness based on lighting conditions. Disabling or modifying this setting prevents the display from dimming in lower light environments.

NEW QUESTION: 11
A shared printer experiences an outage when users submit numerous print jobs at the same time.
Which of the following would an engineer most likely do after verifying network connectivity?
A. Reboot the server.

B. Reinstall the printer drivers.
C. Reset the printer to factory settings.
D. Restart the spooler service.
Answer: (SHOW ANSWER)
The print spooler service manages print jobs sent to the printer. When many jobs are submitted simultaneously, the spooler can become overloaded or unresponsive. Restarting the spooler service clears the job queue and restores normal print operations without requiring a full reboot.

NEW QUESTION: 12
A technician needs to move a workstation to a different logical network segment. Which of the following technologies should the technician use?
A. DHCP
B. VLAN
C. DNS
D. VPN
Answer: (SHOW ANSWER)
AVLAN (Virtual LAN)is used to logically segment a network without requiring physical separation.
It enables grouping devices based on function or department regardless of their physical location.

NEW QUESTION: 13
Which of the following best describes the purpose of a firewall?
A. To connect to Wi-Fi
B. To assign IP addresses
C. To route network packets locally
D. To block unwanted traffic
Answer: (SHOW ANSWER)
A firewall filters incoming and outgoing network traffic based on defined security rules, preventing unauthorized or malicious data packets from passing through.

NEW QUESTION: 14
A technician needs to ensure all data communications on all network devices are encrypted when logging in to the console. Which of the following protocols should the technician enable?
A. SSH
B. LDAP
C. FTPS
D. SMTP
Answer: (SHOW ANSWER)
SSH (Secure Shell) encrypts data communications for secure remote login and management of network devices, ensuring all console connections are encrypted.

NEW QUESTION: 15
Which of the following DNS records should a technician configure to allow domains that are not owned by the company to send messages on the company's behalf?
A. SPF
B. MX
C. CNAME
D. DMARC

E. DKIM
Answer: (SHOW ANSWER)
An SPF (Sender Policy Framework) record specifies which mail servers or domains are authorized to send emails on behalf of a domain. Configuring the SPF record to include third- party domains allows them to send messages legitimately for the company, helping prevent spoofing and unauthorized email use.

NEW QUESTION: 16
Which of the following can be used by a mobile device to access a secure building?
A. Hotspot
B. Near-field communication
C. Infrared scanner
D. Geolocation
Answer: (SHOW ANSWER)
Near-field communication allows a mobile device to communicate wirelessly over very short distances, making it suitable for secure access control systems such as badge replacement and building entry authentication.

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NEW QUESTION: 17
A technician has discovered that some users are connected to a network that is not available on the user interface. Which of the following is the most effective tool the technician can use to identify networks that are not broadcasting SSIDs?
A. Cable tester
B. Toner probe
C. Wi-Fi analyzer
D. Loopback plug
Answer: (SHOW ANSWER)
A Wi-Fi analyzer is a tool used to detect and analyze wireless networks, even those that are not broadcasting their SSIDs (hidden networks).
It provides detailed information about nearby networks, including signal strength, channel usage, and security protocols.
In this case, the Wi-Fi analyzer can identify the hidden networks that users are connected to, which are not visible on the standard user interface.

NEW QUESTION: 18
An engineer must implement a solution to facilitate and maintain an organization's legacy application until it is retired. The application is currently hosted on three physical servers. Which of the following is the most suitable concept for this purpose?
A. SAN
B. FaaS
C. Virtualization
D. Configuration management platform
Answer: (SHOW ANSWER)

Virtualization allows the legacy application to be consolidated from multiple physical servers into virtual machines, reducing hardware dependency while maintaining the existing environment until the application is retired.

NEW QUESTION: 19
After troubleshooting a computer's connectivity, the network team determines there is a port- mapping issue. After plugging the patch cable into a different port, the issue persists. Which of the following troubleshooting steps should a technician take next to resolve the issue?
A. Convert the patch cable to a crossover cable.
B. Test the patch cable from the computer to the network closet.
C. Verify the length of the patch cable meets current standards.
D. Replace the patch cable from the device to the wall.
Answer: B (LEAVE A REPLY)
When port issues persist after moving to a different switch port, the next logical troubleshooting step is to test the patch cable. Faulty or damaged cables are a common cause of network connectivity problems. Using a cable tester between the computer and the network closet verifies the integrity of the cable and rules out a physical layer issue.

NEW QUESTION: 20
An end user wants to share their cellular internet connection with their laptop. Which of the following technologies should they use?
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A. Hotspot
B. Bluetooth
C. NFC
D. Ethernet
Answer: (SHOW ANSWER)
To share a phone's cellular data connection with a laptop, the user should use a hotspot, also known as mobile hotspot or Wi-Fi tethering. In CompTIA A+ Core 1 terms, this feature allows a smartphone to act like a small wireless router: it takes the phone's mobile data (4G/5G) connection and rebroadcasts it over Wi-Fi so another device (the laptop) can join the wireless network using an SSID and password. This is the most common and straightforward method because laptops universally support Wi-Fi and the connection typically provides better throughput than other tethering methods. Hotspot/tethering settings also commonly allow configuration of security (WPA2/WPA3) and can limit connected devices to reduce unauthorized access and manage data usage.

NEW QUESTION: 21
Which of the following describes a cloud computing system's ability to use changing levels of resources based on demand?
A. Availability
B. Multitenancy
C. Elasticity
D. Metered usage
Answer: (SHOW ANSWER)
Elasticity refers to a cloud system's ability to automatically scale resources up or down in response to changing workload demands, ensuring efficient use of resources as demand fluctuates.

NEW QUESTION: 22
A technician receives a notification after a network outage that indicates the printer is not reachable. Which of the following printer settings should the technician implement to prevent this issue in the future?
A. Gateway

B. Static IP
C. APIPA
D. DHCP
Answer: (SHOW ANSWER)
Assigning a static IP to network printers ensures the printer's address does not change after outages or DHCP lease expirations, preventing connectivity issues.

NEW QUESTION: 23
Which of the following tools is best to track where an Ethernet cable is patched?
A. Crimper
B. Punchdown tool
C. Cable stripper
D. Toner probe
Answer: (SHOW ANSWER)
Atoner probe (also known as a tone generator and probe) is the best tool for tracing and identifying cables in a patch panel or wall jack. The tone generator sends a signal through the wire, and the probe helps locate the cable by detecting the tone.

NEW QUESTION: 24
A customer needs to install a new printer in their network. The customer reports that users had intermittent connectivity issues with previous printers. Which of the following should the technician configure on the new printer to prevent this issue?
A. Gateway IP address
B. DHCP IP address
C. Static IP address
D. Public IP address
Answer: (SHOW ANSWER)
Intermittent connectivity issues with network printers are commonly caused by changing IP addresses when using DHCP. Assigning a static IP address ensures that the printer is always reachable at the same IP address by client machines.

NEW QUESTION: 25
When trying to print, a is offline. Other users can print to the same printer without error. Which of the following is the first step the technician should take to resolve this issue?
A. Check the user's print queue settings.
B. Check the printer's IP address.
C. Check the user's network settings.
D. Check the printer's firmware version.
Answer: (SHOW ANSWER)
When a printer is offline for one user but works for others, the issue often lies in the user's print queue settings, such as a paused queue or failed print jobs. Checking and clearing the print queue can resolve the problem.

NEW QUESTION: 26
A company wants to enable access to corporate email on smartphones. Employees will choose from a list of supported devices but must install software that separates corporate and personal data. Which of the following should the company implement to achieve this goal?
A. Encryption

B. Network access control
C. Mobile device management
D. Endpoint protection
Answer: C (LEAVE A REPLY)
Mobile Device Management (MDM) allows the company to enforce security policies, install required applications, and create separate containers for corporate and personal data on employee smartphones, ensuring secure and compliant email access.

NEW QUESTION: 27
Which of the following should a company use to implement automatic time synchronization?
A. DHCP
B. UTM
C. NTP
D. AAA
Answer: (SHOW ANSWER)
NTP (Network Time Protocol) is specifically designed to synchronize the clocks of networked computers and devices automatically.

NEW QUESTION: 28
Which of the following drive interfaces is typically used in server systems but not in home computers?
A. NVMe
B. SAS
C. SATA
D. PCIe
Answer: (SHOW ANSWER)
SAS (Serial Attached SCSI) is a high-performance drive interface commonly found in enterprise environments and servers due to its reliability and speed. While SATA is more common in consumer systems, SAS is specifically designed for mission-critical applications, offering features like full-duplex operation and compatibility with SATA drives.

NEW QUESTION: 29
An administrator is setting up a conference room for an important board of directors meeting. The chief operating officer has asked the administrator to make sure a redundant internet connection is available. The office only has one ISP. and the conference room equipment is currently configured using Ethernet. Which of the following should the administrator set up in order to ensure redundancy?
A. Wireless access point
B. Near-field communication
C. Hotspot
D. Bluetooth
Answer: (SHOW ANSWER)
A hotspot provides a redundant internet connection using cellular data. This ensures connectivity for the meeting even if the primary ISP connection fails.

NEW QUESTION: 30
A customer recently lost data due to several unexpected shutdowns. Data integrity is important to the customer. Which of the following features should the technician choose to prevent data loss?
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A. Redundant power supply

B. Uninterruptible power supply
C. Modular power supply
D. High-efficiency power supply
Answer: (SHOW ANSWER)
An uninterruptible power supply (UPS) protects systems against power outages by providing temporary backup power, giving users time to save data and safely shut down.

NEW QUESTION: 31
While using a laptop and Bluetooth headset for conference calls, a user notices intermittent sound issues. The user frequently walks between office rooms during the calls, leaving the laptop in place. The office wireless network uses fiber for internet access and consists of two wireless APs that are connected. Which of the following is most likely causing the connectivity issue?
A. The number of available APs is inadequate.
B. The user is moving in and out of range.
C. The APs are not in mesh mode.
D. The internet connection is too slow.
Answer: (SHOW ANSWER)
Bluetooth has a limited effective range, and as the user moves between rooms while leaving the laptop stationary, the headset intermittently moves out of range, causing audio dropouts during the conference calls.

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NEW QUESTION: 32
A technician is migrating an application server to another server. Which of the following DNS records should the technician create to ensure seamless connectivity?
A. TXT
B. SPF
C. DKIM
D. CNAME
Answer: (SHOW ANSWER)
A CNAME record allows one hostname to alias another, enabling the application's existing domain name to point to the new server without requiring changes on client systems, ensuring seamless connectivity.

NEW QUESTION: 33
A company is testing the latest model of a laptop. After turning on the laptop, there is a noticeable burning smell. Which of the following steps should a technician take to troubleshoot the laptop issue? (Choose two)
A. Turn it off and disconnect all power sources.
B. Submit an emergency request to the local facilities manager.
C. Check for foreign objects, liquid spills, and internal damage.
D. Contact the vendor and submit a return request.
E. Remove the device from the MDM.

F. Try an alternate AC adapter.
Answer: (SHOW ANSWER)
Turning off and disconnecting all power sources prevents further damage and ensures safety when diagnosing hardware issues.
Checking for foreign objects, liquid spills, and internal damage helps identify the physical cause of the burning smell.

NEW QUESTION: 34
Which of the following is used to verify if a NIC port can send and receive data?
A. Loopback plug
B. Toner probe
C. Cable tester
D. Network tap
Answer: (SHOW ANSWER)
A loopback plug is used to test a network interface card (NIC) port by sending a signal out of the port and back into the same port, verifying that the NIC can send and receive data properly.
This is a common diagnostic tool when troubleshooting network connectivity issues on individual devices.

NEW QUESTION: 35
A user is trying to present a video in a conference room. The video appears when the user connects the computer to the TV display with an HDMI cable. However, there is no sound coming through. The computer and TV volumes are at 50%. Which of the following should the user perform next?
A. Adjust the volume settings
B. Swap the HDMI cable
C. Reinsert the HDMI cable
D. Verify the audio output assignment
Answer: (SHOW ANSWER)
HDMI carries both video and audio signals. If video displays correctly but audio is not heard, it is often because the computer is still outputting sound to its internal speakers rather than the HDMI- connected device.
The user should check the audio output settings in the operating system and ensure the HDMI device (TV or projector) is selected as the audio output device.

NEW QUESTION: 36
A computer with two redundant drives is displaying an error:
SMART failure predicted: Drive 1
A technician notes that a spare drive is not available and the computer is currently functioning normally. Which of the following should the technician do next?
A. Immediately remove the drive.
B. Request a replacement unit.
C. Rebuild the array.
D. Restore the computer base image.
Answer: (SHOW ANSWER)
A SMART failure prediction indicates the drive is likely to fail soon. The appropriate next step is to obtain a replacement drive so it can be swapped before an actual failure occurs, maintaining redundancy and preventing data loss.

NEW QUESTION: 37
Which of the following DNS record types is used to direct email to a mail server?

A. CNAME
B. SRV
C. MX
D. SOA
Answer: (SHOW ANSWER)
An MX (Mail Exchange) record specifies the mail server responsible for receiving email for a domain.

NEW QUESTION: 38
A device with an IP address of 169.254.34.24 is having trouble accessing internet websites.
Which of the following is most likely causing the issue?
A. The static IP address configuration is incorrect.
B. The DNS resolution failed.
C. The DHCP assignment cannot be obtained.
D. The internet is disconnected from the router.
Answer: (SHOW ANSWER)
An IP address in the 169.254.x.x range indicates Automatic Private IP Addressing (APIPA), which occurs when the device cannot obtain an IP address from a DHCP server.

NEW QUESTION: 39
A user is reporting that a computer has been very slow in recent days. The technician looks into the problem and finds pop-ups are randomly appearing on the screen. Which of the following is the next step the technician must take?
A. Establish a knowledge base.
B. Establish a theory of probable cause.
C. Establish a new theory and consider escalating.
D. Establish a plan of action.
Answer: B (LEAVE A REPLY)
The technician has identified the symptoms (slow performance and random pop-ups) and must now establish a theory of probable cause, such as malware or spyware infection.

NEW QUESTION: 40
A user ' s tablet screen is unresponsive to touch. The device does not show any signs of physical damage, and a system reset does not resolve the issue. Which of the following should a technician replace?
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A. Battery
B. Motherboard
C. LCD screen
D. Digitizer
Answer: (SHOW ANSWER)
A tablet's display is made of two key parts that work together: the LCD (or OLED) that shows the image, and the digitizer that detects touch input. If the screen image looks normal but the device does not respond to taps, swipes, or gestures, the most likely failed component is the digitizer (or the digitizer layer/cable). The digitizer is a transparent sensor grid that converts touch into signals the system can interpret. When it fails, the tablet may still power on and show a clear picture, but touch will not register at all or will behave erratically.
Because the device shows no physical damage and a system reset does not fix the issue, this points away from a software glitch and toward a hardware input failure. Replacing the LCD screen is typically indicated when you see display problems such as no image, distorted colors, flickering, dead pixels, or backlight issues-not purely touch failure. A battery problem would affect

power/charging, not touch responsiveness. A motherboard replacement is far more invasive and not the most likely first hardware fix for a touch-only failure. Therefore, the correct component to replace is the digitizer.

NEW QUESTION: 41
A company migrates a local application to an internal cloud platform. Which of the following best describes this cloud platform?
A. Private
B. Public
C. Community
D. Hybrid
Answer: (SHOW ANSWER)
An internal cloud platform operated exclusively for a single organization is a private cloud, providing dedicated resources and enhanced control.

NEW QUESTION: 42
Which of the following could a user employ to maximize module bandwidth when selecting memory for a high-end gaming computer?
A. Error correction
B. RAM voltage
C. Channel configuration
D. Physical module size
Answer: (SHOW ANSWER)
Channel configuration(e.g.,dual-channel,quad-channel) determines how memory modules communicate with the memory controller. Using matched pairs in dual- or quad-channel setup scan significantly increase memory bandwidth, improving performance -- especially for gaming and video-intensive tasks.

NEW QUESTION: 43
A technician is configuring a desktop computer in a small office. The computer is able to connect to the local file server but is unable to access the internet. The technician runs the following command to troubleshoot:

```
C:\ipconfig /all

Ethernet adapter Ethernet:
Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) Ethernet Connection (7) I219-LM
Physical Address. . . . . : 00-4E-01-9D-46-49
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::e1f2:c2f3:460a:f8f4%12(Preferred)
IPv4 Address. . . . . : 192.168.1.9
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
DHCPv6 IAID . . . . . : 201346561
DHCPv6 Client DUID. . . . . : 00-01-00-01-25-3E-AD-0A-00-4E-01-9D-46-49
DNS Servers . . . . . : 192.168.1.1
NetBIOS over Tcpip. . . . . : Enabled
```

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Which of the following will most likely restore internet access?
A. Flushing the DNS cache
B. Choosing a different IPv6 address
C. Setting the gateway
D. Disabling NetBIOS
Answer: (SHOW ANSWER)
The configuration shows no default gateway assigned, which prevents the computer from routing traffic to external networks. Setting the default gateway allows internet-bound traffic to be forwarded to the router, restoring internet access.

NEW QUESTION: 44
Which of the following cloud types should be used when minimizing cost is the priority?
A. Dedicated
B. Shared
C. Private
D. Hybrid
Answer: (SHOW ANSWER)
A shared cloud model minimizes cost by allowing multiple organizations to use the same underlying infrastructure, distributing expenses across tenants and reducing overall operational and hardware costs.

NEW QUESTION: 45
A technician needs to update a web server's IPv4 address in a DNS server. Which of the following records should the technician update?
A. AAAA
B. MX
C. CNAME
D. A
Answer: (SHOW ANSWER)
An A record maps a domain name to an IPv4 address in a DNS server.

NEW QUESTION: 46
Which of the following cloud computing models provides hardware, storage, networking, and virtualization, but requires customers to manage the OS and applications?
A. SaaS
B. PaaS
C. IaaS
D. XaaS
Answer: (SHOW ANSWER)
Infrastructure as a Service provides the underlying hardware, storage, networking, and virtualization resources, while the customer is responsible for installing, configuring, and managing the operating system and applications.

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NEW QUESTION: 47
Which of the following is primarily used to connect different networks?
A. Controller
B. Bridge
C. Hub
D. Router
Answer: (SHOW ANSWER)
Routers are devices that operate at Layer 3 (Network layer) and are primarily used to connect multiple networks, including LANs, WANs, and the Internet. Routers use IP addressing to determine the best path for forwarding packets between networks.

NEW QUESTION: 48
Which of the following services is used to allocate IP addresses in an enterprise-wide environment?
A. DNS
B. Syslog
C. Telnet
D. DHCP
Answer: D (LEAVE A REPLY)
Dynamic Host Configuration Protocol (DHCP) is a network service used to automatically assign IP addresses and other network configuration details (such as subnet masks and default gateways) to devices on an enterprise-wide network.

NEW QUESTION: 49
A technician is installing a new speaker and microphone in a conference room. The technician makes the connections and installs the manufacturer's application for the devices. However, when the technician uses corporate collaboration tools, the input and output devices have not switched to the new speaker and microphone. Which of the following should the technician do to ensure that the new conference devices are working properly?
A. Configure the default devices in the meeting software sound settings.
B. Install the proper drivers for the devices.
C. Disable the speaker and microphone in the computer's BIOS.
D. Power cycle the devices and the laptop.
Answer: (SHOW ANSWER)
Collaboration applications use their own audio device settings. Configuring the correct speaker and microphone as the default within the meeting software ensures the application uses the newly installed devices.

NEW QUESTION: 50
Which of the following connector types is associated with coaxial terminations serving cable internet deployments?
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A. DB9

B. ST
C. F-type
D. RJ45
Answer: (SHOW ANSWER)
F-type connectors are commonly used to terminate coaxial cables in cable internet, cable TV, and satellite connections.

NEW QUESTION: 51
Employees report that a shared laser printer has difficulty printing on thick paper. A technician verifies that the printer works as expected on standard paper, but output on thick paper is easily smudged when touched. Which of the following should the technician do first?
A. Install a maintenance kit
B. Change the fuser temperature
C. Clean the transfer roller
D. Install an OEM toner cartridge
Answer: (SHOW ANSWER)
A laser printer fuses toner onto paper using heat and pressure. Thicker paper often requires a higher fuser temperature to properly adhere the toner.
If the output smudges on thick paper but prints fine on standard paper, adjusting the fuser temperature is the first step before performing more invasive maintenance or replacing parts.

NEW QUESTION: 52
A technician receives a S.M.A.R.T. error on a PC. When the technician presses the Esc key, the PC continues to turn on without any further issues. Which of the following should the technician do next?
A. Replace the HDD.
B. Update the PC's BIOS.
C. Close the ticket.
D. Change the NIC.
Answer: (SHOW ANSWER)
S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology):
S.M.A.R.T. is a monitoring system integrated into modern HDDs and SSDs that detects and reports on various indicators of drive health and reliability.
A S.M.A.R.T. error indicates that the drive is showing signs of impending failure, even if the PC continues to boot and work normally for the time being.
Next Steps:
The appropriate action is to replace the hard drive (HDD) because a S.M.A.R.T. error is an early warning of possible hardware failure. Ignoring the warning could result in data loss if the drive fails completely. The technician should also back up the user's data immediately to avoid losing

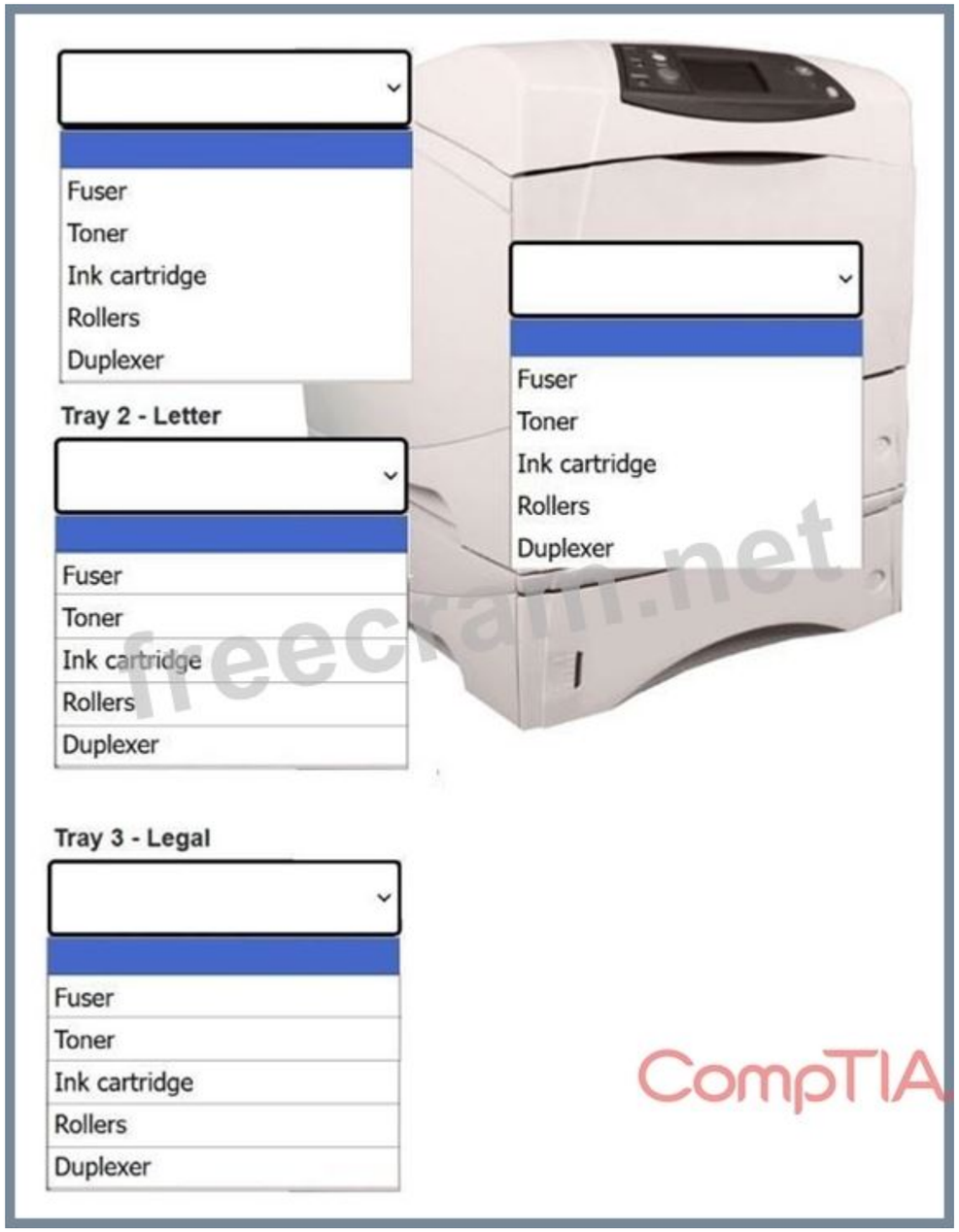
NEW QUESTION: 53
Which of the following cables can carry a video signal?
A. MicroUSB
B. USB-A
C. MiniUSB
D. USB-C
Answer: (SHOW ANSWER)
USB-C supports alternate modes such as DisplayPort, allowing it to carry video signals in addition to data and power.

NEW QUESTION: 54
Which of the following can carry data and electricity to network devices? (Choose two)
A. Router
B. Injector
C. Cable modem
D. Access point
E. PoE
F. Unmanaged switch
Answer: (SHOW ANSWER)
PoE (Power over Ethernet) allows both data and electrical power to be delivered over the same Ethernet cable. A PoE injector adds power to Ethernet cables for devices that need it.

NEW QUESTION: 55
A technician is evaluating how to connect a power-redundant server to the outlets of a rack.
Which of the following is the best way to provide electricity to the server?
A. Using only one power outlet, as the system will provide energy to the redundant source
B. Leaving one of the power supplies disconnected for use in case the other fails
C. Identifying available power outlets in different UPSs and distributing the connection between them
D. Connecting the device to one dedicated battery backup to provide continuous energy
Answer: C (LEAVE A REPLY)
Connecting each power supply to separate UPS units provides true power redundancy, ensuring the server remains operational even if one power source or UPS fails.

NEW QUESTION: 56
A user can connect their laptop to the internet in the main office. However, when the user places the laptop on top of a motor on the factory floor, there is no internet connectivity. Which of the following is the most likely cause of this issue?
A. Jitter
B. Insufficient power levels
C. External interference
D. High latency
Answer: C (LEAVE A REPLY)
Large electrical motors can emit electromagnetic interference (EMI), which can disrupt wireless signals and prevent connectivity.

NEW QUESTION: 57
SIMULATION 12
An office manager reports that a printer is experiencing performance issues. All double-sided printouts are getting stuck in the printer and must be manually removed. Additionally, there are streaks of faded text running down each page.
INSTRUCTIONS
Using the dropdown menus, select from the available printer parts to replace only the faulty components on the office printer to resolve the stated issues.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.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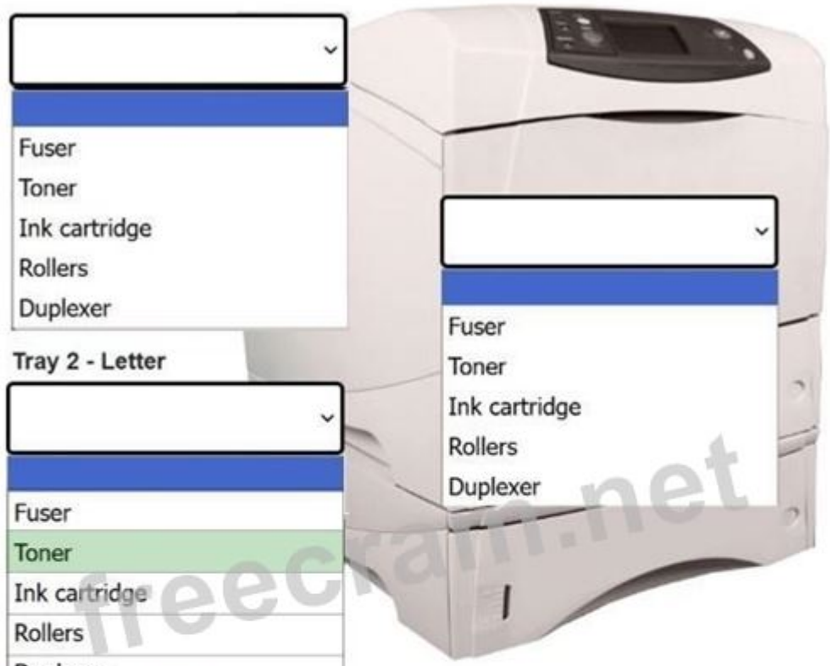
Answer:



Explanation:
Replacing the toner cartridge resolves the streaks of faded text because uneven or depleted toner causes vertical fading on laser-printed pages. Replacing the duplexer resolves the double-sided paper jams because the duplexing mechanism is responsible for routing paper for two- sided printing, and a failing duplexer commonly causes jams during that process.

NEW QUESTION: 58
A user reports that a software application functioned as expected the previous day, but this morning, the user is unable to launch the application.
Which of the following describe what the technician should do next?
A. Research the symptoms
B. Identify any changes the user has made
C. Determine which steps need to be performed.
D. Check the vendor's website for guidance.
Answer: (SHOW ANSWER)
Identifying changes made to the system is the next step to troubleshoot why an application no longer launches, as recent changes often cause such issues.

NEW QUESTION: 59
Which of the following internet connection types provides the fastest speeds and greatest coverage in less populated areas with minimal infrastructure?
A. Fiber
B. Cable
C. DSL
D. Cellular
Answer: (SHOW ANSWER)
Cellular networks offer broad coverage in rural or less populated areas where laying fiber, cable, or DSL lines may not be feasible or cost-effective. Cellular broadband (4G LTE/5G) provides fast speeds using existing mobile network infrastructure.

NEW QUESTION: 60
Which of the following cables are the most likely to be implemented using a punch down block? (Choose two.)
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A. Telephone
B. Fiber
C. HDMI
D. Ethernet
E. Coaxial
F. USB
Answer: A,D (LEAVE A REPLY)
Punch-down blocks are commonly used to terminate and manage cabling for telephone systems and Ethernet networks (e.g., Cat 5, Cat 6). These blocks allow for efficient organization and connection of wires.

NEW QUESTION: 61
A drive for a RAID 1 array fails. Users are concerned that information could be lost. Which of the following is the best way to manage the situation?
A. Repairing and reinstalling the defective disk to recover any files
B. Discarding the defective disk without further action
C. Replacing the defective disk and syncing the new one so that all files are retained
D. Finding the latest backup of the legacy server and restoring it to transfer the files
Answer: (SHOW ANSWER)
In RAID 1 (mirroring), data is duplicated across two drives. If one drive fails, the array continues to function using the remaining drive. Replacing the failed disk and rebuilding (resyncing) the array restores full redundancy without data loss.

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NEW QUESTION: 62

A company purchases a SOHO router for a small office. The new router does not have DHCP.
Which of the following address types should the company use so that all computers can communicate on the network?
A. Static
B. Public
C. Dynamic
D. IPv6
Answer: (SHOW ANSWER)
Without DHCP, the router cannot automatically assign IP addresses to devices. Each computer must be manually configured with an IP address, subnet mask, and default gateway, which requires the use of static addressing so all systems can communicate on the network.

NEW QUESTION: 63
Which of the following describes an advantage of mini-LED displays over OLED displays?
A. Increased contrast
B. No backlight
C. Improved viewing angle
D. Decreased burn-in
Answer: (SHOW ANSWER)
Mini-LED displays use an array of tiny LEDs as a backlight for LCD panels.
Unlike OLED displays, which are susceptible to burn-in (permanent image retention when static content is displayed for long periods), mini-LEDs reduce the risk because the pixels themselves do not emit light individually and are less prone to permanent image retention.

NEW QUESTION: 64
Which of the following cloud characteristics allows local folders to contain updates that are made by users on other devices?
A. Network share
B. Synchronization
C. Availability
D. Metered utilization
Answer: (SHOW ANSWER)
Synchronization ensures that changes made to files on one device are automatically updated and reflected in local folders on other devices connected to the same cloud service.

NEW QUESTION: 65
After a data breach, an affected file server is reimaged and must have the data restored. The server array is configured as RAID 6. The technician restoring the data notices that the data transfer is sluggish and restarts the server. After restarting the server, the technician continues the restore process and sees one red LED in the drive array. Which of the following should the technician do next to remediate the issue?
A. Reconfigure the RAID array
B. Run a S.M.A.R.T. test
C. Reinstall the controller drivers
D. Replace the failed drive
Answer: (SHOW ANSWER)
RAID 6 is a redundant array of independent disks that can tolerate up to two drive failures while still maintaining data integrity. According to CompTIA A+ Core 1 (220-1201) objectives, a red LED on a drive in a RAID array indicates that the drive has failed or is in a critical state.

Next Step: In RAID 6, a single failed drive should be replaced immediately to prevent additional failures and maintain redundancy. The array can continue to operate in a degraded state, but performance may be slow during rebuilds. Replacing the failed drive allows the RAID controller to rebuild data onto the new drive, restoring full redundancy.

NEW QUESTION: 66
A technician is troubleshooting issues occurring on a user's mobile device. Applications and the OS have slow response times, even when performing simple tasks, such as writing an email. Additionally, new applications occasionally fail to launch. Which of the following should the technician do next?
A. Move the device to a room with a colder temperature.
B. Close unnecessary programs.
C. Reset to factory default settings.
D. Check the battery health of the device.
Answer: (SHOW ANSWER)
The symptoms -- slow response and failed app launches -- indicate that the device's memory or processing resources are over utilized. Closing unnecessary apps can free up RAM and CPU resources, improving performance.

NEW QUESTION: 67
An employee who travels worldwide wants a workstation to perform the same whether the workstation is in the corporate office environment or elsewhere. Which of the following should a technician implement?
A. VDI
B. Public cloud
C. SSH
D. SaaS
Answer: (SHOW ANSWER)

NEW QUESTION: 68
After a laptop display panel was replaced recently, the laptop has had difficulty staying connected to Wi-Fi. Which of the following is most likely causing the issue?
A. The internal antenna has been damaged
B. Airplane mode is enabled
C. The inverter is not connected
D. The wireless drivers have not been updated
Answer: (SHOW ANSWER)
Many laptop Wi-Fi antennas are embedded in the display panel and connected via small cables to the wireless card on the motherboard.
If the display panel is replaced and the Wi-Fi antenna is disconnected, damaged, or improperly routed, the laptop will experience weak or intermittent Wi-Fi connectivity.

NEW QUESTION: 69
Which of the following is used to expose the wires in an unshielded twisted pair?
A. Loopback plug
B. Punchdown tool
C. Crimper
D. Cable stripper
Answer: (SHOW ANSWER)
A cable stripper is used to remove the outer insulation of an unshielded twisted pair cable, exposing the internal wires for termination or inspection.

NEW QUESTION: 70

Which of the following involves installing an application on a server so several users can run the application concurrently without the need for local installation?

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A. Client virtualization
B. Software as a service
C. Sandboxing
D. Embedded software
Answer: (SHOW ANSWER)
Client virtualization involves installing an application on a server and enabling multiple users to run the application simultaneously via virtualized sessions. This eliminates the need for individual installations on local machines.

NEW QUESTION: 71
An IT specialist is setting up a new, custom computer. The specialist wants to minimize the number of power cables to keep the internal components organized and uncluttered. Which of the following power supply types should the specialist use?
A. Modular
B. Redundant
C. Linear
D. External
Answer: (SHOW ANSWER)
A modular power supply allows the user to connect only the cables needed, reducing clutter and improving organization inside the case.

NEW QUESTION: 72
A user would like to connect a laptop to a monitor, keyboard, and mouse when in the office. The user prefers to use as few cables as possible. Which of the following would best achieve that goal?
A. Bluetooth
B. Managed switch
C. Docking station
D. Near-field communication
Answer: (SHOW ANSWER)
A docking station allows users to connect multiple peripherals (monitor, keyboard, mouse, etc.) to a laptop with a single connection, reducing cable clutter and improving convenience.

NEW QUESTION: 73
A technician is troubleshooting a laptop's connectivity via its USB-C port to a projector. The same laptop works well when it is connected to a USB-C docking station. The projector is configured as expected, and the USB-C cable was tested on a charging port. Which of the following could be the issue?
A. The USB-C cable requires a power injector
B. The USB-C cable is not compatible with Thunderbolt technology.
C. The USB-C cable needs an adapter to work with the laptop.
D. The USB-C cable does not support enough power.
Answer: (SHOW ANSWER)

Not all USB-C cables support video output (DisplayPort Alt Mode) or Thunderbolt, even though they carry power. A charge-only USB-C cable will work for charging tests but won't pass the video signal to the projector. You need a USB-C cable rated for Thunderbolt or DisplayPort Alt Mode to transmit the display data directly.

NEW QUESTION: 74
A technician is setting up a workstation. Which of the following settings should the technician configure to ensure that users can connect to the network? (Select three).
A. APIPA
B. Gateway
C. IP address
D. Subnet mask
E. Static routes
F. UPnP settings
G. NAT rules
H. MAC filters
Answer: (SHOW ANSWER)
Gateway - Specifies the next-hop router for traffic destined outside the local subnet, enabling network connectivity.
IP address - Uniquely identifies the workstation on the network, which is required for communication.
Subnet mask - Defines the network and host portions of the IP address, allowing proper routing within the subnet.

NEW QUESTION: 75
A company wants to migrate a large amount of data from an on-premises server to a cloud provider. Which connection type is most likely the fastest?
A. Coaxial
B. DSL
C. Fiber
D. SAN
Answer: (SHOW ANSWER)
Fiber connections provide the highest bandwidth and lowest latency among the listed options, making them the fastest and most suitable choice for transferring large volumes of data to a cloud provider.

NEW QUESTION: 76
Which of the following supplies power to an IP phone?
A. Digital subscriber line
B. Patch panel
C. Fiber router
D. PoE switch
Answer: D (LEAVE A REPLY)
A Power over Ethernet (PoE) switch delivers both data connectivity and electrical power through the same Ethernet cable, allowing devices like IP phones to operate without a separate power adapter.

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NEW QUESTION: 77
Which of the following will most likely be an issue when increasing the channel width of an 802.11 network?
A. Wireless interference
B. Decreased data throughput
C. Increased latency
D. Reduced collisions
Answer: (SHOW ANSWER)
Increasing the channel width causes the wireless signal to occupy more spectrum, which raises the likelihood of overlapping with neighboring channels and results in greater wireless interference.

NEW QUESTION: 78
A technician is manually configuring network settings on a user's computer to route network traffic to a newly deployed firewall. Which of the following should the technician change?
A. VPN
B. Gateway
C. Subnet mask
D. VLAN
Answer: (SHOW ANSWER)
Routing network traffic through a firewall requires changing the default gateway so the computer sends outbound traffic to the firewall as the next hop.

NEW QUESTION: 79
An end user is having trouble printing from an application. The text on the page is unreadable.
However, the application prints successfully from a newer computer. Which of the following should be done next?
A. Reinstall the printer.
B. Adjust the print tray.
C. Update the printer driver.
D. Change the toner.
Answer: (SHOW ANSWER)
Unreadable or garbled text that occurs only from one computer indicates a driver compatibility issue. Updating the printer driver ensures proper translation of application output into a format the printer can correctly process.

NEW QUESTION: 80
A technician builds a workstation. When the technician starts up the workstation, the technician notices a burning smell. During POST, the workstation shuts down. Which of the following is most likely the cause of these issues?
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A. The technician did not properly ground the workstation.
B. The technician chose the wrong type of RAM.

C. The technician did not connect power to the exhaust fan.
D. The technician did not apply thermal paste.
Answer: (SHOW ANSWER)
Without thermal paste, proper heat transfer between the CPU and heatsink does not occur, causing the processor to overheat almost immediately during startup. This can produce a burning smell and trigger a shutdown during POST to prevent damage.

NEW QUESTION: 81
Which of the following combinations of specifications and frequencies delivers the greatest speed and compatibility for lot devices?
A. A and 5GHz
B. Band 2.4GHz
C. G and 5GHz
D. N and 2.4GHz
Answer: (SHOW ANSWER)
802.11n combined with the 2.4GHz frequency offers the greatest compatibility for IoT devices.
802.11n: Operates on both 2.4GHz and 5GHz bands, offering backward compatibility with older standards like 802.11b/g.
2.4GHz: Has longer range and better penetration through walls, making it ideal for IoT devices that are spread across large areas.

NEW QUESTION: 82
A user's smartphone battery drains faster than usual even when not in use. The smartphone also feels unusually hot. Which of the following should be done first to troubleshoot the issue?
A. Check for applications that are using excessive background resources.
B. Replace the smartphone's battery with a new one.
C. Create a backup and perform a factory reset on the smartphone.
D. Disable Wi-Fi and Bluetooth.
Answer: (SHOW ANSWER)
Excessive background activity from apps is the most common cause of unexpected battery drain and overheating. Identifying and closing or uninstalling such apps should be the first troubleshooting step before considering hardware replacement or a full reset.

NEW QUESTION: 83
A technician needs to scan-to-file from a legacy printer. The technician sets up a shared drive but then is unable to view the scanned files. The technician confirms their credentials are valid.
Which of the following should the technician do to the computer to view the scanned files?
A. Disable the firewall on the desktop PC.
B. Add a $ to the end of the share name.
C. Enable SMB 1.0 through Windows features.
D. Remove the malware protection software.
Answer: (SHOW ANSWER)
Many legacy printers rely on the older SMB 1.0 protocol for scan-to-file functionality. Enabling SMB 1.0 on the computer allows it to communicate properly with the legacy device so the scanned files can be accessed on the shared drive.

NEW QUESTION: 84
Which of the following services allows a networked host to automatically assign IP addresses to devices on a network?
A. DNS

B. DHCP
C. SMTP
D. SNMP
Answer: (SHOW ANSWER)
Dynamic Host Configuration Protocol automatically assigns IP addresses and other network configuration parameters to devices, allowing them to communicate on the network without manual configuration.

NEW QUESTION: 85
A user asks a technician for assistance with a printer that has stopped printing. The user states that the print jobs are generated from a website and are difficult to re-create. When the technician remotes into the user's computer, they can see many jobs in the queue. The issue persists after the user performs a hard reset of the printer. Which of the following will most likely fix the issue?
A. Restarting the print spooler service on the local computer
B. Deleting all the jobs and having the user restart their computer
C. Making sure the printer is using the latest PCL driver
D. Updating the manufacturer's firmware on the printer
Answer: (SHOW ANSWER)
Restarting the print spooler service clears and reloads the print queue on the user's PC, removing any hung jobs without needing to recreate or reprint them.

NEW QUESTION: 86
Which of the following networking devices is used to create a mesh network?
A. Modem
B. DSL
C. Access point
D. ONT
Answer: (SHOW ANSWER)
Mesh networks rely on multiple access points (or mesh nodes) to create a seamless, self-healing network. Each access point communicates with others to extend coverage and improve reliability without requiring a wired backbone for each AP.

NEW QUESTION: 87
Which of the following should a technician use in DNS to map a device to an IPv6 address?
A. A
B. CNAME
C. AAAA
D. MX
Answer: (SHOW ANSWER)
The correct DNS record used to map a device to an IPv6 address is the AAAA record. According to CompTIA Core 1 (220-1201) networking fundamentals, DNS uses different record types to associate domain names with specific resources, and each record type serves a distinct purpose.
An AAAA (Quad-A) record maps a fully qualified domain name (FQDN) to an IPv6 address, which is a 128-bit address written in hexadecimal format. As IPv6 adoption increases to address IPv4 exhaustion, CompTIA expects technicians to understand how DNS supports both addressing schemes.
An A record maps a hostname to an IPv4 address only and cannot be used for IPv6. A CNAME record creates an alias that points one domain name to another domain name, not directly to an IP address. An MX record is used for mail server routing and email delivery, not for host address resolution.

CompTIA emphasizes knowing DNS record types and their specific use cases, especially distinguishing between A vs. AAAA records when working with IPv4 and IPv6 networks. When the requirement is explicitly to map a device to an IPv6 address, the AAAA record is the correct and only valid choice.

NEW QUESTION: 88
A company plans to decommission a legacy application in one year. The company wants to decommission the current environment. Which of the following is the best migration method?
A. Relocating the physical server to a colocated data center
B. Performing a physical-to-virtual conversion and host on IaaS
C. Deploying all components using PaaS
D. Taking a backup and shutting down the server
Answer: B (LEAVE A REPLY)
Converting the legacy application's physical server to a virtual machine (P2V) and hosting it on an Infrastructure as a Service (IaaS) platform preserves functionality while reducing hardware maintenance. This approach is cost-effective for short-term use before full decommissioning.

NEW QUESTION: 89
A technician is enabling BitLocker. Which of the following is required to accomplish this task?
A. TPM
B. SAN
C. ARM
D. HSM
Answer: (SHOW ANSWER)
BitLocker requires a Trusted Platform Module to securely store encryption keys and verify system integrity during the boot process, enabling full-disk encryption without requiring user intervention at startup.

NEW QUESTION: 90
A technician receives a tablet that looks like it has a bulge inside. The bulge is pushing the screen away from the backplate. The tablet still turns on when it is plugged in, but the screen looks damaged and turns off when unplugged. Which of the following is the most likely cause of this issue?
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A. Malfunctioning power supply
B. Damaged charge port
C. Deprecated battery
D. Broken screen
Answer: C (LEAVE A REPLY)
A bulging tablet casing is a classic sign of as wollen lithium-ion battery, often caused by age, overheating, or overcharging. This is a dangerous condition, as swollen batteries can rupture or catch fire. It also explains why the tablet only works when plugged in -- the battery is no longer holding a charge.

NEW QUESTION: 91
Images and text from a laser printer smudge if touched. Which of the following should a technician do to resolve the issue?
A. Check the toner levels.
B. Install a maintenance kit.
C. Replace the fuser.
D. Clean the pickup rollers.

Answer: C (LEAVE A REPLY)
Replacing the fuser resolves smudging because the fuser unit uses heat and pressure to permanently bond toner to the paper. A faulty fuser can cause toner to remain loose and smudge when touched.

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NEW QUESTION: 92
A user is conducting a meeting using a monitor. However, the user notices a transparent image of a clock over the presentation. The technician thinks that the issue is caused by burn-in. Which of the following should the technician do to test this theory?
A. Replace the DisplayPort cable and verify that the image is gone.
B. Turn off the monitor to check if the image is still present.
C. Adjust the refresh rate and examine the monitor.
D. Use a software tool to attempt the recovery of dead pixels.
Answer: (SHOW ANSWER)
Burn-in is a physical defect where a static image becomes permanently visible on the display.
Turning off the monitor helps confirm if the image persists without a video signal - if the ghost image remains visible when powered off, it confirms burn-in.

NEW QUESTION: 93
A technician is troubleshooting stylus issues on identical, company-provided tablets. Users can purchase their own accessories. Some users have no issues, but others report that their styluses charge intermittently and die frequently. Which of the following is the most likely cause of this issue?
A. Certain cases are causing charging issues.
B. The tablets need to be updated.
C. Some of the tablets have manufacturing defects.
D. The malfunctioning styluses need firmware updates.
Answer: (SHOW ANSWER)
The most likely cause is third-party or ill-fitting cases obstructing the contact between the stylus and the tablet charging mechanism. Some cases may not be designed with stylus charging in mind, particularly if users are purchasing their own accessories.

NEW QUESTION: 94
A technician upgrades a CPU heat sink with a higher-performing model. While stress testing the computer, the technician finds that the CPU temperatures have drastically increased. Which of the following is most likely causing the issue?
A. Decreased CPU voltage
B. Higher fan RPM
C. Airflow interruption
D. Missing thermal paste
Answer: (SHOW ANSWER)

Whenever a CPU heat sink is removed or replaced, thermal paste must be reapplied. Thermal paste fills microscopic gaps between the CPU heat spreader and the heat sink, ensuring efficient heat transfer. Without it, there is a significant air gap, which acts as an insulator, causing CPU temperatures to rise dramatically even under light load. CompTIA A+ stresses thermal compound application as a key step in CPU cooling installation.
The scenario indicates that temperatures increased drastically after upgrading to a better heat sink. A higher-performing heat sink should improve temperatures, not worsen them--unless a critical installation step was missed. Missing thermal paste is the most common cause of this symptom and easily explains the sudden overheating.

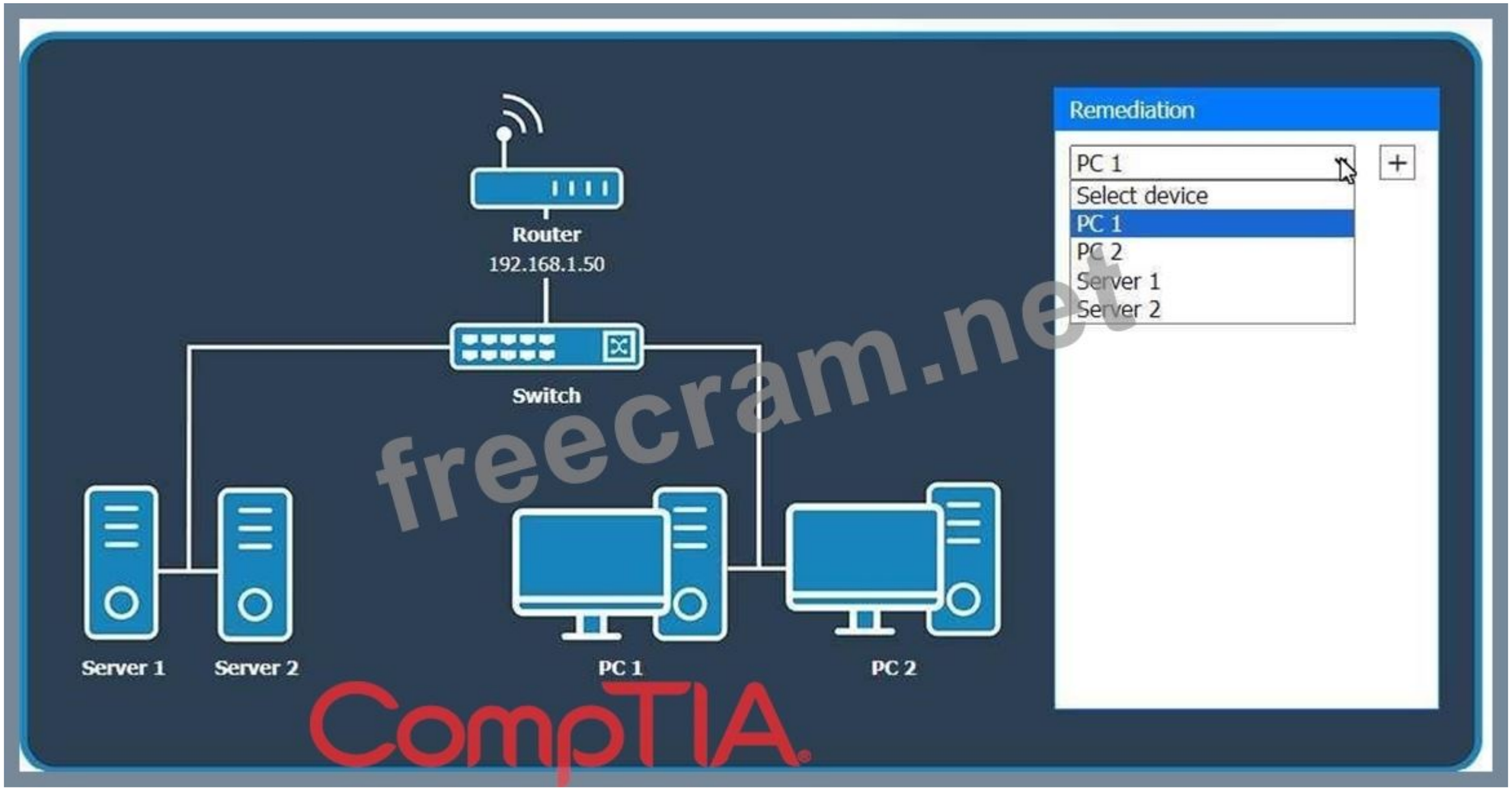
NEW QUESTION: 95
A customer wants a new desktop machine that can run recently released, popular video games.
Which of the following should a desktop technician consider when building the machine? (Choose two.)
A. A low-wattage power supply unit
B. An integrated GPU
C. A high amount of RAM
D. A dedicated graphics card
E. A Linux OS
F. A TPM 2.0
Answer: C,D (LEAVE A REPLY)
Modern, popular video games require a high amount of system memory to load large game assets and maintain smooth performance during gameplay. A dedicated graphics card is essential for handling advanced graphics processing, higher frame rates, and modern rendering technologies required by recently released games.

NEW QUESTION: 96
After a user builds their first PC, the user needs to install the operating system from a USB drive.
Which of the following should the user configure next?
A. BIOS password
B. PXE boot
C. Secure Boot
D. Boot order
Answer: (SHOW ANSWER)
To install an operating system from a USB drive, the system must be configured to check the USB device before the internal storage during startup. Setting the boot order ensures the computer boots from the USB drive so the operating system installer can run.

NEW QUESTION: 97
A help desk technician needs to work on a high-volume printer. Users have reported occasional paper jams and smudges appearing on printed documents. Which of the following steps should the technician do next to address these issues?
A. Perform a full factory reset.
B. Check and clean the rollers.
C. Change all the ink or toner cartridges.
D. Replace the fuser.
Answer: (SHOW ANSWER)
Paper jams and smudging in high-volume printers are often caused by dirty or worn rollers.
Rollers are responsible for feeding the paper through the printer. Over time, they accumulate dust, toner residue, or wear out, resulting in misfeeds or jams. Cleaning or replacing them typically resolves this issue.

NEW QUESTION: 98
A technician installs an external camera on a user's laptop. When loading meeting software, the video preview shows a blank screen. What should the technician do next?
A. Select the correct camera source.
B. Replace the camera.
C. Update the camera software.
D. Check the camera cable.
Answer: (SHOW ANSWER)
Most meeting or conferencing applications default to the built-in laptop camera unless manually changed. When an external camera is connected, the software may continue to use the default device, resulting in a blank preview, especially if the internal camera is disabled, covered, or malfunctioning. CompTIA A+ stresses verifying correct device selection when peripherals are installed.
Selecting the correct camera source is a quick, non-invasive test that resolves the issue in the majority of cases. The technician should open the application's video settings and choose the external webcam from the camera dropdown menu.

NEW QUESTION: 99
SIMULATION 8
A third-party contractor recently installed a new switch, router, and cabling for a small corporate office. After the installation, users started experiencing issues connecting to resources over the network.
INSTRUCTIONS
Click on each PC and server to review outputs. From the remediation section on the right, select an issue and solution for each device.


Remediation
PC 1
Select device
PC 1
PC 2
Server 1
Server 2
Router
192.168.1.50
Switch
Server 1
Server 2
PC 1
PC 2
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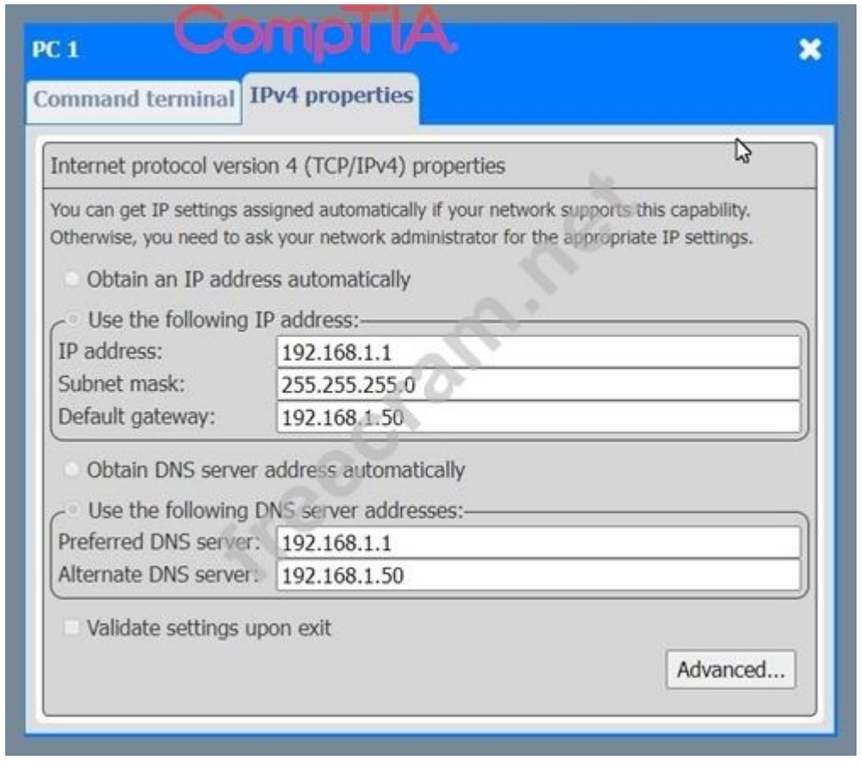
CompTIA
PC 1
Command terminal
IPv4 properties
Internet protocol version 4 (TCP/IPv4) properties
You can get IP settings assigned automatically if your network supports this capability.
Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 192.168.1.1
Subnet mask: 255.255.255.0
Default gateway: 192.168.1.50
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server: 192.168.1.1
Alternate DNS server: 192.168.1.50
Validate settings upon exit
Advanced...

PC 1

Command terminal | IPv4 properties

```
ipconfig /all

Windows IP Configuration

   Host Name . . . . . . . . . . . . : PC1
   Primary Dns Suffix  . . . . . . . :
   Node Type . . . . . . . . . . . . : Peer-Peer
   IP Routing Enabled. . . . . . . . : No
   WINS Proxy Enabled. . . . . . . . : No
   DNS Suffix Search List. . . . . . : corp.lan

Ethernet adapter Ethernet 1:

   Connection-specific DNS Suffix  . : corp.lan
   Description . . . . . . . . . . . : Realtek USB GbE Family Controller
   Physical Address. . . . . . . . . : E1:7C:5C:D4:57:79
   DHCP Enabled. . . . . . . . . . . : No
   Autoconfiguration Enabled . . . . : No
   IPv4 Address. . . . . . . . . . . : 192.168.1.1 (Preferred)
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.1.50
```

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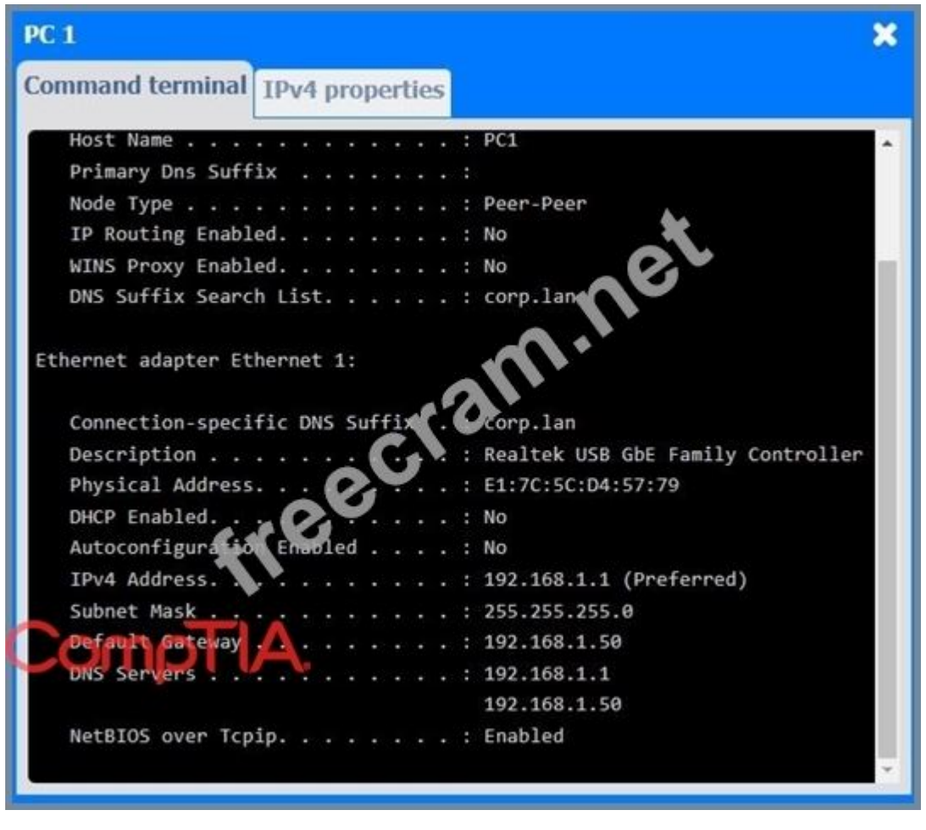

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PC 2

Command terminal | IPv4 properties

```
   Node Type . . . . . . . . . . . . : Peer-Peer
   IP Routing Enabled. . . . . . . . : No
   WINS Proxy Enabled. . . . . . . . : No
   DNS Suffix Search List. . . . . . : corp.lan

Ethernet adapter Ethernet 1:

   Connection-specific DNS Suffix  . : corp.lan
   Description . . . . . . . . . . . : Realtek USB GbE Family Controller
   Physical Address. . . . . . . . . : 36:9E:94:F0:59:83
   DHCP Enabled. . . . . . . . . . . : Yes
   Autoconfiguration Enabled . . . . : Yes
   IPv4 Address. . . . . . . . . . . : 192.168.1.12 (Preferred)
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Lease Obtained. . . . . . . . . . : August 28, 2023 9:07:46 AM
   Lease Expires . . . . . . . . . . : August 29, 2023 9:07:46 AM
   Default Gateway . . . . . . . . . : 192.168.1.50
   DHCP Server . . . . . . . . . . . : 192.168.1.1
   DNS Servers . . . . . . . . . . . : 192.168.1.1
                                       192.168.1.50

   NetBIOS over Tcpip. . . . . . . . : Enabled
```

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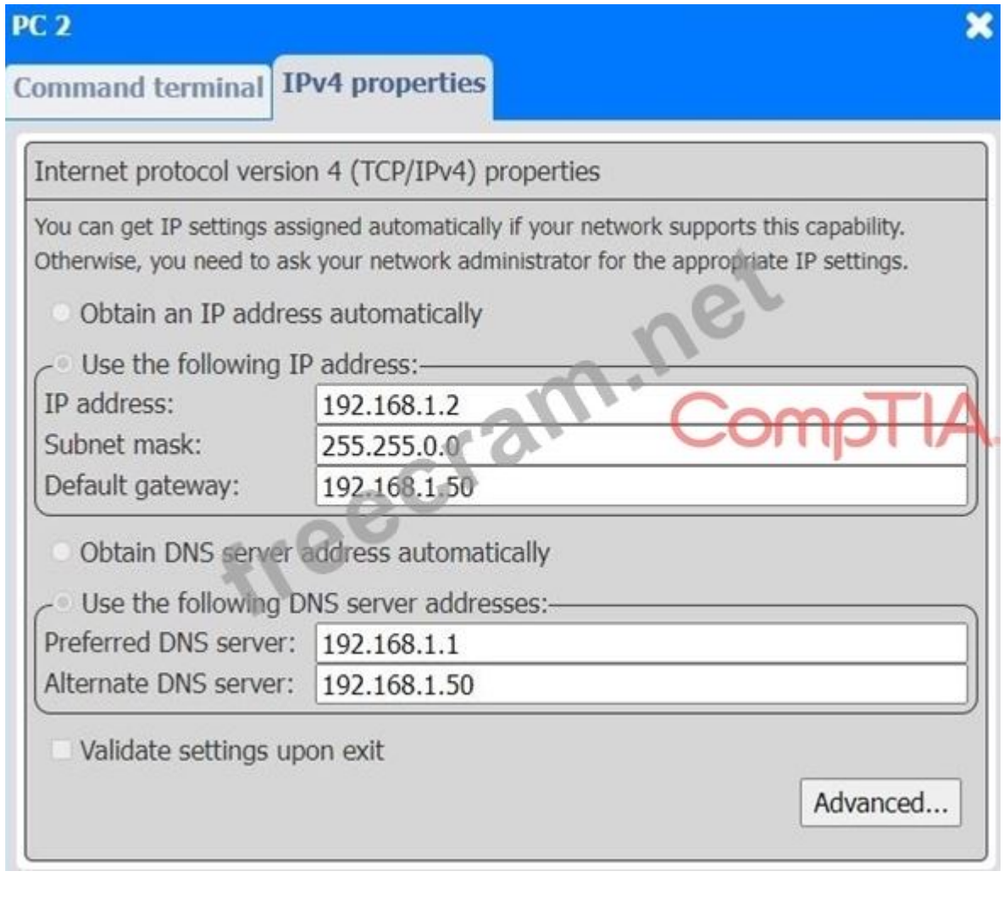

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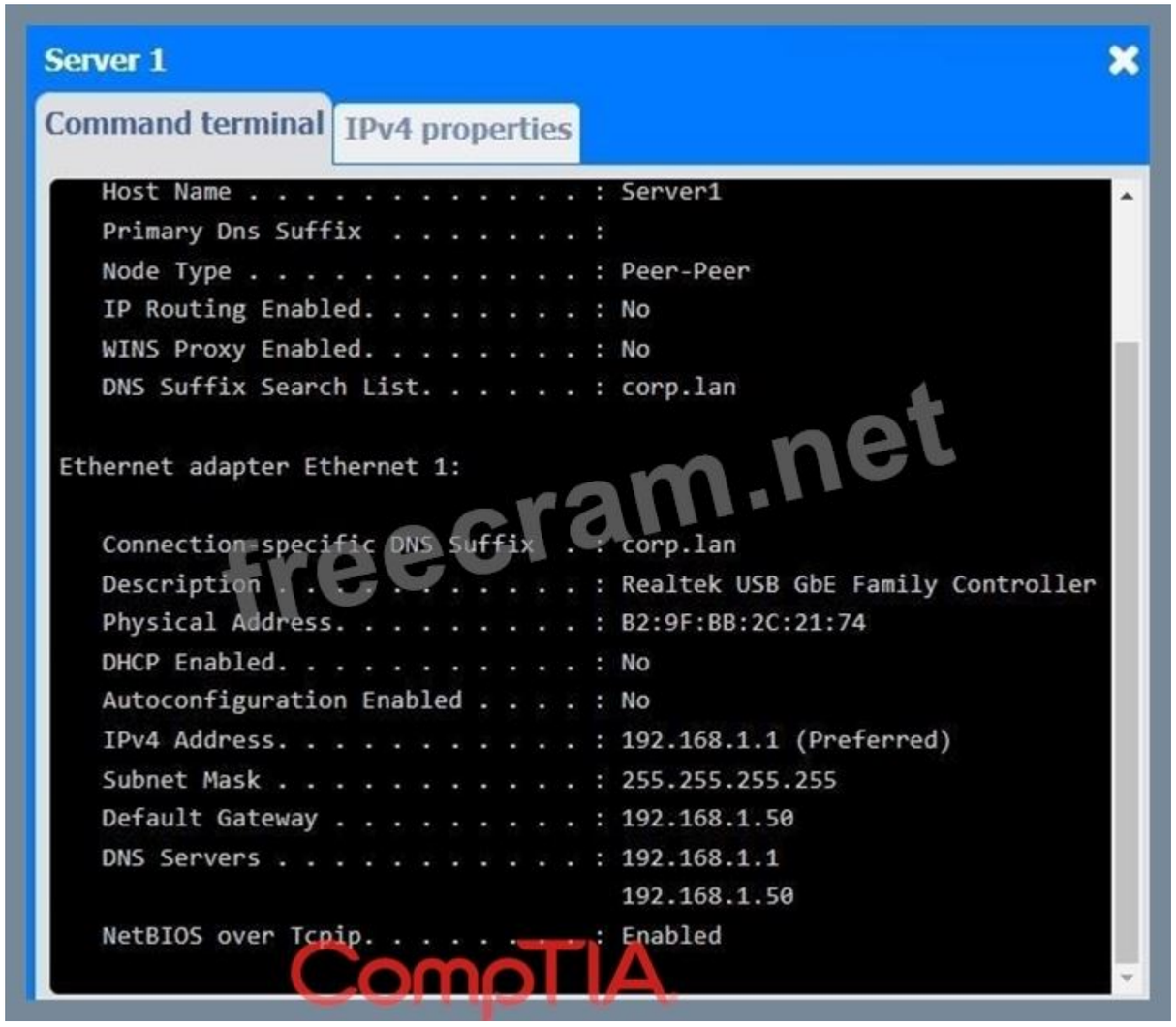

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Server 1

Command terminal | **IPv4 properties**

Internet protocol version 4 (TCP/IPv4) properties

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

- Obtain an IP address automatically
- Use the following IP address:

IP address:	192.168.1.1
Subnet mask:	255.255.255.0
Default gateway:	192.168.1.50

- Obtain DNS server address automatically
- Use the following DNS server addresses:

Preferred DNS server:	192.168.1.1
Alternate DNS server:	192.168.1.50

- Validate settings upon exit

Advanced...

Server 2

Command terminal | IPv4 properties

```
   Host Name . . . . . . . . . . . . : Server2
   Primary Dns Suffix  . . . . . . . :
   Node Type . . . . . . . . . . . . : Peer-Peer
   IP Routing Enabled. . . . . . . . : No
   WINS Proxy Enabled. . . . . . . . : No
   DNS Suffix Search List. . . . . . : corp.lan

Ethernet adapter Ethernet 1:

   Connection-specific DNS Suffix  . : corp.lan
   Description . . . . . . . . . . . : Realtek USB GbE Family Controller
   Physical Address. . . . . . . . . : AC:5D:46:89:72:6D
   DHCP Enabled. . . . . . . . . . . : No
   Autoconfiguration Enabled . . . . : No
   IPv4 Address. . . . . . . . . . . : 192.168.1.2 (Preferred)
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.1.5
   DNS Servers . . . . . . . . . . . : 192.168.1.1
                                       192.168.1.50
   NetBIOS over Tcpip. . . . . . . . : Enabled
```

CompTIA
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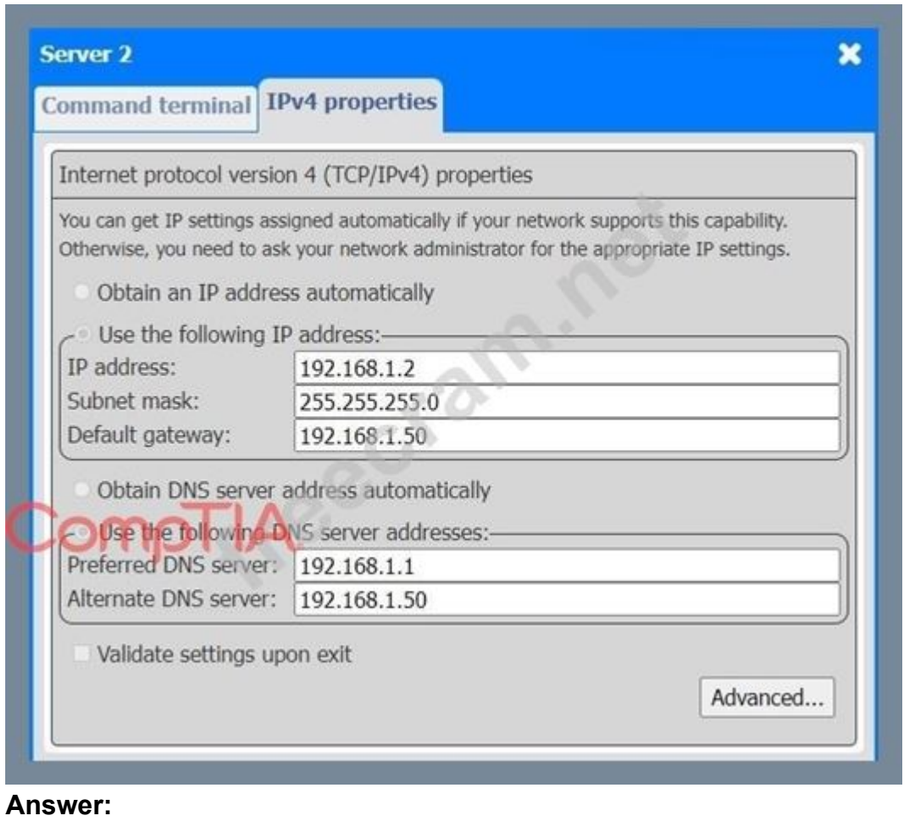

Answer:

Looking at the network configurations and outputs from both PCs and servers, here are the possible issues and solutions:

1. PC 1

Issue: The IP address for PC1 is 192.168.1.1, which conflicts with Server 1 (which also uses 192.168.1.1).

Solution: Change the IP address on PC1 to a unique one within the range, like 192.168.1.3.

2. PC 2

Issue: PC 2 is configured with 192.168.1.2, which conflicts with Server 2 that has the same IP address. Solution: Update the IP address on PC 2 to something unique, like 192.168.1.4.

3. Server 1

Issue: The IP address for Server 1 is 192.168.1.1, which conflicts with PC1. Solution: Since Server 1 and PC1 are using the same IP address, change one of them. For Server 1, you could change the IP address to 192.168.1.5.

4. Server 2

Issue: Server 2 is using the IP address 192.168.1.2, which conflicts with PC2. Solution: Update Server 2 to use a different IP address, such as 192.168.1.6.

General Remediation:

The primary problem here is overlapping IP addresses, leading to connectivity issues. Each device on the network must have a unique IP address. After making these changes, ensure that all devices can communicate properly by testing the connection between devices and verifying they can access shared resources.

NEW QUESTION: 100

Each lime a user ties to print, the paper becomes stuck at the last stage of the print job and the user has to poll me paper out of the printer. Which of the following is me most likely cause?

A. Rollers

B. Tray assembly

C. Toner
D. Printhead
Answer: (SHOW ANSWER)
If paper gets stuck at the last stage of printing, the rollers responsible for moving the paper through the printer are likely worn out or dirty.

NEW QUESTION: 101
An administrator must configure a server that prioritizes data availability. Because the server will be accessed by many users, the administrator must also consider performance. Which of the following RAID levels best meets these requirements within a single array?
A. 1
B. 2
C. 5
D. 10
Answer: D (LEAVE A REPLY)
RAID 10 combines mirroring and striping, providing high data availability through redundancy and improved performance through parallel read/write operations, making it ideal for environments with many users and high access demands.

NEW QUESTION: 102
A user's device needs more memory, so a technician installs extra RAM with the following specifications:
2 x8Gb DDR3-1066(PC3-S500)
1 x 16Gb DDR3-1333 (PC3-10600)
Which of the following speeds would maximize reliability?
A. 1,066
B. 1 333
C. 8.500
D. 10,600
Answer: (SHOW ANSWER)
When multiple RAM modules with different speeds are installed in a system, the system will default to the speed of the slowest module to maintain reliability and stability. In this case:
The system contains two DDR3-1066 (PC3-8500) modules and one DDR3-1333 (PC3-10600) module. The slowest RAM speed is DDR3-1066 (PC3-8500), and the system will run all memory modules at this speed to prevent timing mismatches and data corruption.

NEW QUESTION: 103
Following a security breach that revealed employee username and password information, an organization would like to implement additional security for users logging in to company devices.
Which of the following would be the best solution for the organization to use?
A. Biometric authentication
B. Peer-reviewed log-ins
C. Log-in scripts
D. One-time tokens
Answer: (SHOW ANSWER)
In response to a security breach involving compromised credentials, one-time tokens provide an effective method to enhance authentication security. These tokens are part of multi-factor authentication (MFA) and generate unique codes for each login attempt, ensuring that even if credentials are stolen, unauthorized access is prevented.
Why One-time Tokens?

One-time tokens are dynamic and expire after a single use, significantly reducing the risk of unauthorized access even if usernames and passwords are compromised. Often delivered through apps like Google Authenticator, hardware tokens, or SMS.

NEW QUESTION: 104
A technician is troubleshooting a workstation that repeatedly shuts down within ten minutes of being turned on. The technician notices a loud clicking sound coming from inside the case. Which of the following components should the technician check first?
A. Exhaust fan
B. Capacitors
C. CPU fan
D. Intake fan
Answer: C (LEAVE A REPLY)
A failing CPU fan may make unusual noises (including clicking) and, if it is not cooling the CPU, the system will quickly overheat and shut down to prevent damage.

NEW QUESTION: 105
Which of the following technologies allows for a segmented environment in which malicious indicators can be inspected safely?
A. Hypervisor
B. Sandbox
C. virtualization
D. Container
Answer: (SHOW ANSWER)
A sandbox provides an isolated environment where suspicious files or programs can be executed and analyzed safely without affecting the host system. This isolation is ideal for inspecting potentially malicious indicators.

NEW QUESTION: 106
Which of the following requires pairing during the initial use of a new mobile accessory?
A. NFC
B. Lightning cable
C. RFID
D. Bluetooth
Answer: (SHOW ANSWER)
Bluetooth accessories require an initial pairing process so the devices can securely recognize and communicate with each other before regular use.

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NEW QUESTION: 107
Which of the following resolutions does the Full HD standard use?
A. 1280x720

B. 1920x1080
C. 3840x2160
D. 7680x4320
Answer: (SHOW ANSWER)
Full HD refers to a display resolution of 1920x1080 pixels, commonly known as 1080p, which is a standard resolution for monitors, televisions, and laptops.

NEW QUESTION: 108
A company uses vital legacy software that does not run in the current OS version. Which of the following will best support the software while keeping the OS current?
A. Shared resources
B. System sandbox
C. Test development
D. Application visualization
Answer: (SHOW ANSWER)
Application virtualization allows legacy software to run in a virtualized environment while the operating system remains current. It isolates the application from the OS, ensuring compatibility without downgrading the OS.

NEW QUESTION: 109
An end user's domain password expires while they are working from home. The end user tries to reset the password using Ctrl+Alt+Delete and then receives the following message:
Configuration information could not be read from the domain controller, either because the machine is unavailable or because access is denied.
Which of the following will resolve this issue?
A. Restart the computer.
B. Connect to the VPN.
C. Reset the account in Active Directory.
D. Join the Wi-Fi network.
Answer: (SHOW ANSWER)
To change a domain password from a remote location, the system must communicate with the domain controller. Since the user is working from home, they need to connect to the corporate VPN to establish that secure connection. Without it, the password change cannot be authenticated.

NEW QUESTION: 110
Users in a 200-person call center report that phone calls experience severe performance degradation on busy days. The technician confirms:
- Upload and download speeds are 50Mbps during a speed test.
- VoIP call prioritization settings are properly configured for the VLAN that the call center uses.
Which of the following is most likely the cause of this issue?
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A. The QoS is not configured correctly on the router.
B. The switchports dedicated to the call center are flapping.
C. The call center's VLAN is not configured to allow voice traffic.
D. The bandwidth dedicated to the call center is insufficient.
Answer: (SHOW ANSWER)
Voice over IP (VoIP) traffic is highly sensitive to latency, jitter, and packet loss, especially in large environments such as a 200-person call center. Although the technician confirms that VoIP prioritization (QoS) is configured correctly and speed tests show 50 Mbps upload and download speeds, overall available bandwidth can still be insufficient during peak usage.

Speed tests measure raw throughput at a point in time and do not reflect real-world congestion caused by hundreds of simultaneous calls, application usage, and data transfers. On busy days, the cumulative bandwidth demand likely exceeds the available capacity, leading to degraded call quality despite correct VLAN and QoS settings.

NEW QUESTION: 111
Which of the following network services is used to assign an IP address to a network host?
A. DHCP
B. DNS
C. LDAP
D. SMTP
Answer: (SHOW ANSWER)
DHCP (Dynamic Host Configuration Protocol) is the service used to automatically assign IP addresses to network hosts. It dynamically manages the distribution of IP addresses and configuration details (like subnet mask, gateway, and DNS servers), ensuring no two devices are assigned the same address on the network.

NEW QUESTION: 112
Which of the following components enables finger-based screen input for two-in-one laptops?
A. Fingerprint scanner
B. Digitizer
C. Stylus
D. Inverter
Answer: (SHOW ANSWER)
A digitizer is the component in a two-in-one laptop that enables finger-based or stylus input on the screen. It is responsible for converting touch inputs into digital signals that the device can interpret.
Why Digitizer?
A digitizer is integrated into the screen assembly and works to detect and process inputs such as taps, swipes, or pinches.
This is a standard feature in modern touchscreens, enabling functionality for both finger-based and stylus-based interactions.

NEW QUESTION: 113
A company needs to print several copies of a multipage document with the least consumption of resources possible. Which of the following settings will best accomplish this task?
A. Duplex
B. Orientation
C. Tray settings
D. Quality
Answer: (SHOW ANSWER)
In the CompTIA A+ Core 1 (220-1201) exam objectives under printer settings and configuration, duplex printing refers to printing on both sides of the paper automatically.
Using duplex printing is the best way to reduce resource consumption because:
It cuts paper usage in half, which is the primary resource being conserved.
It is ideal for multi-page documents and multiple copies.
It reduces physical storage and handling requirements.

NEW QUESTION: 114
A technician wants to monitor network statistics for devices communicating with one another on the local subnet. Which of the following devices should the technician install.

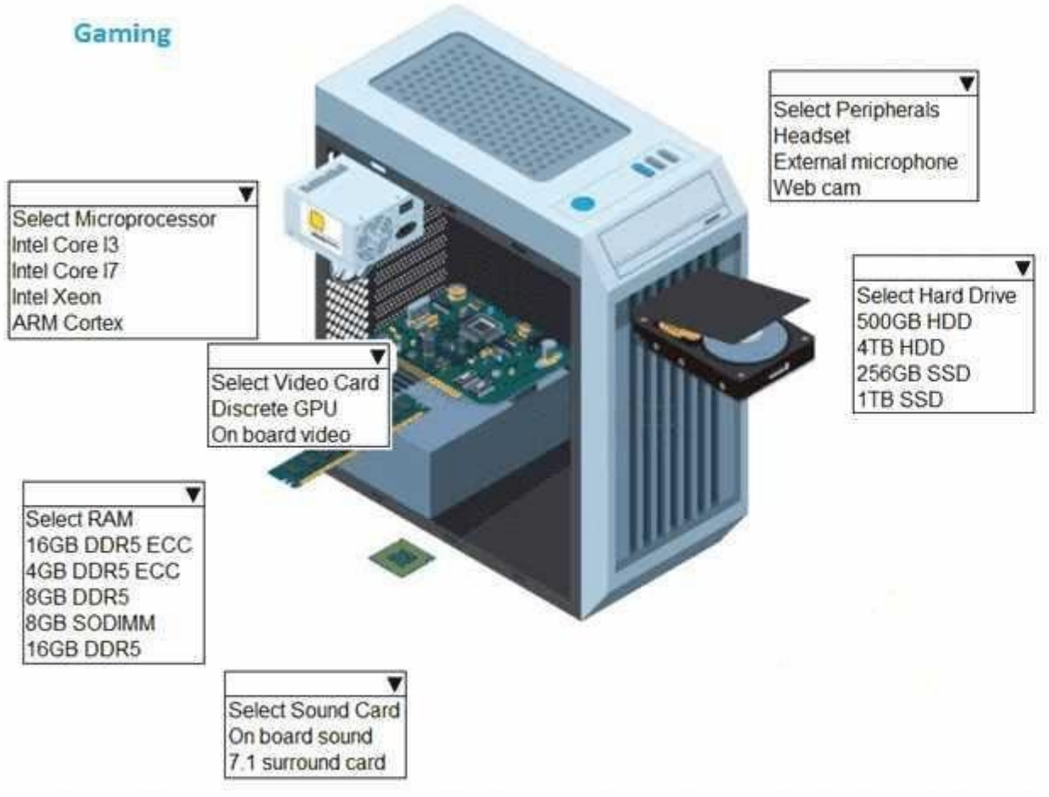
A. Managed switch
B. Router
C. Access point
D. Firewall
Answer: (SHOW ANSWER)
A managed switch provides advanced features such as traffic monitoring and VLAN configuration, allowing a technician to view network statistics for devices on the local subnet.

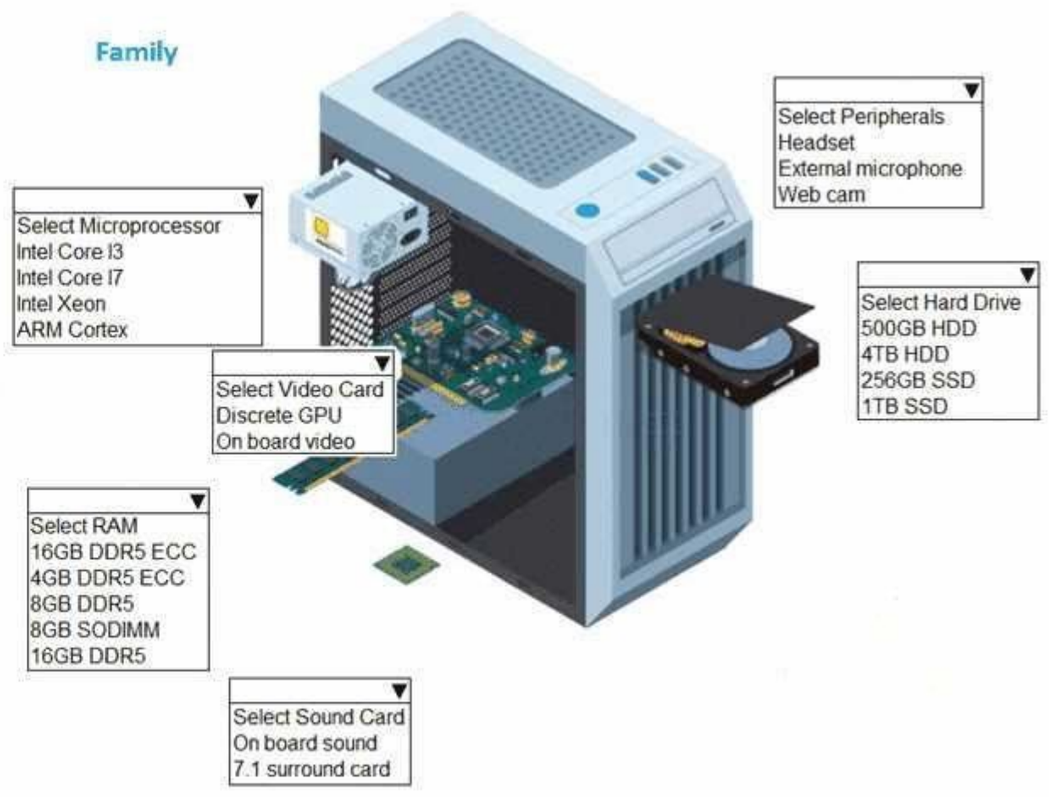
NEW QUESTION: 115
Which of the following is the best option to maintain a stable, tethered connection between a cell phone and a laptop?
A. Bluetooth
B. USB
C. Hotspot
D. NFC
Answer: (SHOW ANSWER)
A USB connection provides a direct wired link between the phone and laptop, offering the most stable and reliable tethered connection with consistent speed and minimal interference compared to wireless options.

NEW QUESTION: 116
Which of the following devices forwards data between different networks by analyzing the headers of packets?
A. Hub
B. Router
C. Repeater
D. Unmanaged switch
Answer: (SHOW ANSWER)
A router operates at the network layer and forwards data between different networks by examining packet headers, specifically IP addresses, to determine the best path for delivery.

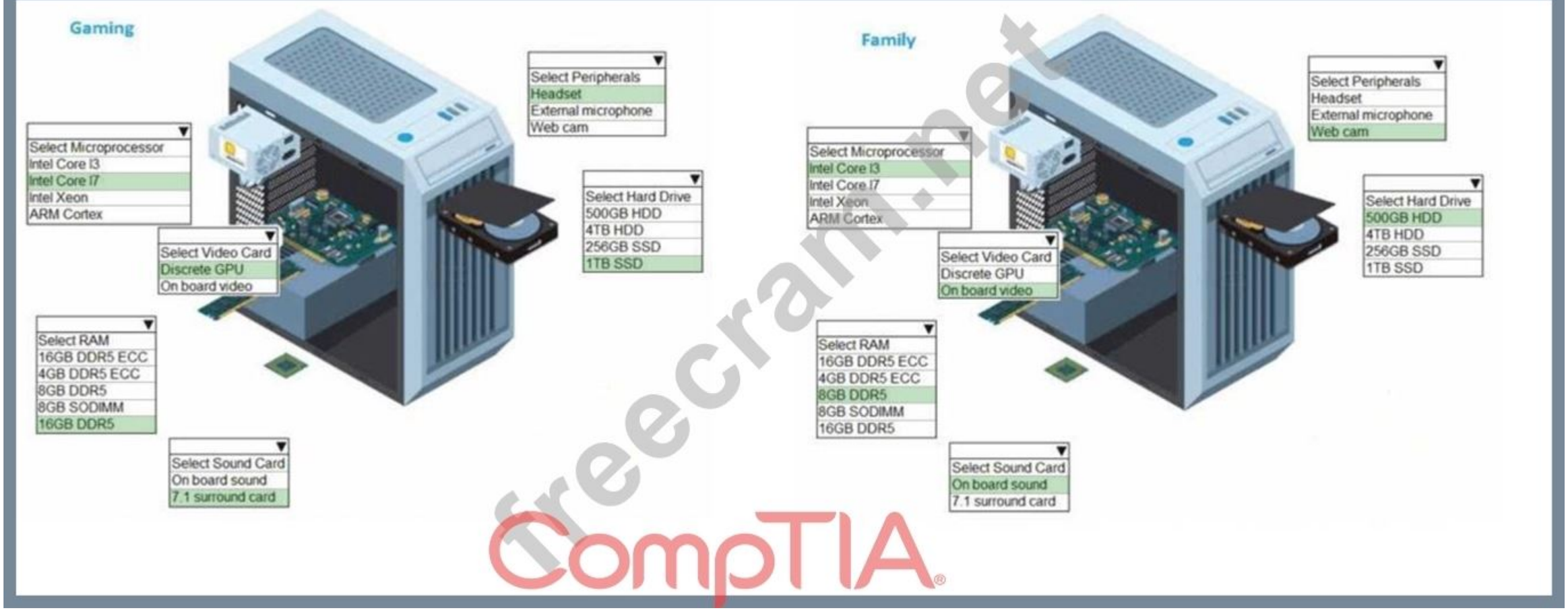
NEW QUESTION: 117
SIMULATION 1
A customer has contacted you about building two new desktops. The first desktop will be a gaming workstation. The customer requirements include:
- Playing the newest games at a high frame rate
- Fast game load times
- Enough storage to have several games installed at once
- 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
INSTRUCTIONS

Use the drop-down menus to select the appropriate component for each category, based on the above requirements.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.





Answer:



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NEW QUESTION: 118
A user's computer can connect to internal network resources but cannot access websites on the internet. Other users on the same network do not have this issue. Which of the following should a technician do first to troubleshoot the issue?
A. Verify the computer's DNS settings.
B. Replace the network cable.
C. Restart the DHCP server.
D. Adjust the firewall rules on the router.
Answer: (SHOW ANSWER)
Since the user can access internal resources but not external websites, the issue likely lies with DNS resolution. Checking and correcting the computer's DNS settings ensures it can properly resolve domain names to IP addresses for internet access.

NEW QUESTION: 119
A user cannot see the office multifunction printer in their laptop's print options. They have printed to the device in the past successfully. The user's laptop is connected to the guest wireless network. Other users on both wireless and wired computers can see and print to the printer.
Which of the following will fix the issue?
A. Power cycle the printer to refresh connectivity.
B. Reset the closest wireless AP.

C. Download the printer driver from the manufacturer's website.
D. Connect the laptop to the corporate Wi-Fi.
Answer: (SHOW ANSWER)
If the user is on a guest network and cannot access internal resources like printers, connecting to the corporate Wi-Fi will place the device on the correct subnet to access the printer.

NEW QUESTION: 120
A computer training institute needs to implement multiple VLANs that must:
- Connect to each other with minimum hardware
- Communicate traffic at wire speed
Which of the following is the most suitable?
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A. Web application firewall
B. DDoS appliance
C. Layer 3 switch
D. Router
Answer: (SHOW ANSWER)
A Layer 3 switch can route traffic between VLANs internally using hardware-based switching, allowing inter-VLAN communication at wire speed while minimizing additional hardware compared to using external routers.

NEW QUESTION: 121
Which of the following printing initiatives would be best to accomplish environmentally friendly objectives?
A. Requiring user authentication for printing
B. Locking down printing to only certain individuals
C. Modifying duplex settings to double-sided
D. Changing the print quality settings to best
Answer: (SHOW ANSWER)
Modifying duplex settings to double-sided:
Printing on both sides of the paper (duplex printing) reduces paper usage, making it one of the most effective environmentally friendly printing initiatives.
It directly minimizes waste and supports sustainability goals in the workplace.

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NEW QUESTION: 122
A user accidentally leaves their smartphone in a taxi. Which of the following can help the user locate the misplaced smartphone?
A. NFC
B. Bluetooth
C. Satellite
D. DSL

Answer: (SHOW ANSWER)
Smartphone location tracking relies on GPS satellites to determine the device's position. Using satellite-based GPS, the user can locate their misplaced smartphone through built-in "Find My Device" or similar tracking services.

NEW QUESTION: 123
Which of the following requires pairing during the initial use of a new mobile accessory?
A. Bluetooth
B. Lightning cable
C. NFC
D. RFID
Answer: (SHOW ANSWER)

NEW QUESTION: 124
The power supply for a user's gaming PC fails. The user installs a new power supply and connects it to the motherboard, GPU, and SSDs, but the computer will not start. What is the most likely cause?
A. The computer requires more RAM
B. The wattage is insufficient
C. The user did not connect the 4-pin CPU connector
D. The power supply only works in redundant configurations
Answer: (SHOW ANSWER)
Modern gaming systems require both the 24-pin ATX connector to the motherboard and a separate 4-pin or 8-pin CPU power connector near the CPU socket; if the CPU connector is missing, the system will not start even if the GPU and drives are powered.
Insufficient wattage would typically cause instability, shutdowns, or failure under load, not a complete failure to power on immediately after installation when only basic components are attached.

NEW QUESTION: 125
After a technician installs a new network printer, the technician discovers that one of the printer features is not available. Which of the following should the technician do first?
A. Update the firmware.
B. Contact the manufacturer for assistance.
C. Enable IPv6
D. Connect the printer with a USB cable.
Answer: (SHOW ANSWER)
Updating the firmware ensures the printer is running the latest software, which can enable missing features and resolve compatibility or functionality limitations.

NEW QUESTION: 126
Which of the following is a characteristic of a Type 1 hypervisor?
A. Host OS required
B. Bare-metal server installation
C. Lightweight OS
D. Local configuration options
Answer: (SHOW ANSWER)
A Type 1 hypervisor runs directly on the physical hardware (bare-metal) without requiring a host operating system, providing better performance and efficiency.

NEW QUESTION: 127
Which of the following is designed to be used in commercial spaces?
A. USB 3.1 Gen 2
B. Straight tip fiber connector
C. Plenum cabling
D. Cat 8
Answer: (SHOW ANSWER)
Plenum cabling is designed for use in commercial spaces where cables run through air ducts or plenum spaces, as it has fire-resistant properties and emits less toxic smoke.

NEW QUESTION: 128
A user's laptop keyboard is distorted and is no longer flat. Which of the following components most likely failed?
A. Battery
B. RAM
C. Keyboard
D. HDD
Answer: (SHOW ANSWER)
Swollen or warped laptop chassis components as a classic symptom of a failing or swollen lithium-ion battery.

NEW QUESTION: 129
A user reports their company-provided smartphone does not have internet access when the user is in the parking lot. Which of the following should a technician check first?
A. 3G/4G/5G/LTE settings
B. SIM connection
C. Hotspot capability
D. GPS configuration
Answer: (SHOW ANSWER)
Checking the 3G/4G/5G/LTE settings ensures that the phone's cellular data connection is enabled and configured properly, which is necessary for internet access outside of Wi-Fi coverage areas like a parking lot.

NEW QUESTION: 130
A user's phone does not respond to touch. A technician inspects the phone but does not see any evidence of physical damage. The technician restarts the device, which does not fix the issue.
Which of the following components should the technician examine next?
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A. Battery
B. Screen
C. Stylus
D. Digitizer
Answer: (SHOW ANSWER)
The digitizer is the component responsible for detecting touch input on a screen. If touch is not registering and there's no physical damage, the digitizer may be faulty.

NEW QUESTION: 131

Which storage device is best suited for a high-performance gaming laptop requiring fast data access?
A. 1TB SATA 2.5" HDD
B. 512GB NVMe M.2 SSD
C. 750GB SATA III HDD
D. 1TB SAS SSD
Answer: (SHOW ANSWER)
NVMe SSDs use the PCIe bus and deliver far higher throughput and lower latency than SATA HDDs, which greatly improves load times and responsiveness for games.
2.5" and SATA III HDDs are much slower mechanical drives suited to bulk storage, not high- performance gaming, and SAS SSDs are typically enterprise/server parts, not common or optimal in gaming laptops.

NEW QUESTION: 132
A technician is troubleshooting a PoE phone that will not turn on. When a laptop is plugged directly into the switchport for the phone the technician sees a data link LED and activity. Which of the following tools should the technician use to verify PoE availability to the phone?
A. Network tap
B. Cable tester
C. Loopback plug
D. Toner probe
Answer: (SHOW ANSWER)
A cable tester capable of testing Power over Ethernet (PoE) functionality can verify whether the switchport is providing the required power to the phone. This tool measures both the presence of data and the voltage or wattage being provided through the Ethernet cable. This is the most effective way to confirm that PoE is available on the port.

NEW QUESTION: 133
Several storms cause mission-critical servers to go offline unexpectedly A server also goes offline suddenly due to haroNvare failure Upon assessment the company purchases new UPSs to condition power and allow the OSs to shut down gracefully in the event of a power failure However, the UPSs are delayed due to supply chain issues. Which of the following can balance a cost-effective solution with uptime requirements?
A. Purchasing backup generators
B. Increasing input voltage
C. Installing redundant PSUs
D. Activating a hot site
Answer: (SHOW ANSWER)
Redundant PSUs provide fault tolerance by ensuring that if one power supply fails, another will take over seamlessly.
This is a cost-effective way to increase uptime while waiting for the UPSs to arrive.

NEW QUESTION: 134
A user reports that they cannot get their laptop to work with a video projector connected with an HDMI cable. The projector is turned on, the HDMI cable is securely connected on both ends, and the laptop displays properly on its own screen. The display mode is set to "Duplicate" on the laptop. Which of the following is most likely causing the issue?
A. The projector does not support HDMI connections.
B. The laptop display mode should be set to "Extend".
C. An HDMI port on the projector failed.
D. The input source is incorrect on the projector.
Answer: (SHOW ANSWER)

Even when the cable is properly connected and the laptop display mode is correctly set, the projector will not show an image unless it is set to the correct input source. If the projector is set to a different input than HDMI, it will not display the laptop's output.

NEW QUESTION: 135
A laptop's wireless speed has been very slow since a new router was installed The user thinks the issue is because the router is misconfigured Which of the following should a technician do first to diagnose this issue?
A. Reproduce the issue with the user's laptop
B. Connect using Ethernet to verify network speed
C. Adjust the maximum transmission unit size on the user's laptop
D. Update the network drivers
Answer: A (LEAVE A REPLY)
The first step in troubleshooting is to reproduce the issue. This ensures that the problem exists as reported, and the technician can observe it directly. In this case:
Testing the wireless speed on the user's laptop while connected to the new router allows the technician to verify the problem and gather evidence for further troubleshooting. Reproducing the issue helps confirm whether the problem is with the laptop, the router configuration, or other network factors.

NEW QUESTION: 136
A technician is experimenting with network configurations and has connected two laptops to an unmanaged switch. The technician configured one of the laptops with a static IP address of 192.168.1.1 and the other with a static IP address of 192.168.2.2. The laptops are not communicating with each other. Which of the following is the most likely explanation for this issue?
A. The wireless NICs are malfunctioning.
B. The laptops do not have access to a router.
C. PoE interferes with intersubnet communication.
D. The technician needs to use a hub instead of a switch.
Answer: (SHOW ANSWER)

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NEW QUESTION: 137
Which of the following is a characteristic of an NVMe drive?
A. M.2 interface
B. 3.5in (8.9cm) external
C. 7,200rpm
D. Molex connector
Answer: (SHOW ANSWER)
NVMe (Non-Volatile Memory Express) drives commonly use the M.2 interface and provide the highest performance for SSDs.

NEW QUESTION: 138
A user receives an error when installing a new email app on their phone. Technician verifies OS is updated and app is supported. What should the technician check next?

A. Storage
B. Battery health
C. SIM card
D. Processor
Answer: (SHOW ANSWER)
When an application fails to install on a smartphone despite being supported by the OS and device type, CompTIA A+ stresses that the most common cause is insufficient storage. Mobile devices require not only space for the app itself but also additional temporary space for the installation process, cached data, and updates. If internal storage is nearly full, the app store will display installation errors-even if the OS and hardware meet requirements.

NEW QUESTION: 139
A technician is unable to join a computer to the domain. The technician runs ipconfigand gets the following output:

```
C:>ipconfig

Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix . :
Description . . . . . . . . . . . . . . : Intel(R) Wireless-AC 9560
Physical Address . . . . . . . . . . . . : 7C:B2:7D:74:2F:63
DHCP Enabled . . . . . . . . . . . . . . : Yes
IPv4 Address . . . . . . . . . . . . . . : 172.17.1.193 (Preferred)
Subnet Mask . . . . . . . . . . . . . . . : 255.255.255.0
Default Gateway . . . . . . . . . . . . . : 172.17.1.254
DHCP Server . . . . . . . . . . . . . . . : 172.17.1.1
DNS Servers . . . . . . . . . . . . . . . : 8.8.8.8
                                          8.8.4.4
NetBIOS over TCP/IP . . . . . . . . . . . : Enabled
```

Which of the following is the most likely cause?
A. The subnet mask Is Incorrect.
B. NetBIOS is enabled.
C. DHCP is enabled.
D. DNS servers are manually set.
Answer: (SHOW ANSWER)
Joining a domain requires the computer to use the organization's internal DNS so it can locate domain controllers and domain services. With public DNS servers configured, the computer cannot resolve the internal domain records needed to complete the domain join.

NEW QUESTION: 140
A technician is troubleshooting a connectivity issue on a network computer. The technician runs ipconfig in a command prompt and receives the following IP address: 169.254.0.6. Which of the following is most likely the type of IP address being assigned?
A. DHCP reservation assignment
B. Dynamic assignment
C. Self-assignment
D. Static assignment

Answer: (SHOW ANSWER)
An IP address starting with169.254.x.x is a self-assigned address(also called APIPA?Automatic Private IP Addressing). It's used when a client device cannot contact a DHCP server. This address allows limited communication on the local network segment but no internet access.

NEW QUESTION: 141
A computer is experiencing random shutdowns. A technician notices that the fans on the computer work but are noisy. The CPU temperature is about 122°F (50°C) when the computer is started but rises to 208°F (98°C) when applications are opened. Which of the following would most likely fix this issue?
A. Replacing the power supply
B. Installing a high-performance heat sink
C. Adjusting the fan settings
D. Adding more RAM to the computer
Answer: (SHOW ANSWER)
Excessive heat buildup due to insufficient cooling is a primary cause of unexpected shutdowns. A high-performance heat sink improves thermal transfer, dissipates more heat, and helps maintain CPU temperature within safe limits. When CPU temperatures reach levels like 208°F (98°C), the system may shut down to prevent damage.

NEW QUESTION: 142
A new directive mandates the use of a security component to securely allow users to authenticate to systems, access sensitive data, and enter the office. The component must provide an additional factor of authentication alongside user accounts and cannot be something the user o.
Which of the Mowing components best meets these requirements?
A. Fingerprint reader
B. Smart card
C. Secure token
D. NFC scanner
Answer: (SHOW ANSWER)
A smart card provides an additional factor of authentication by storing secure credentials, such as certificates, that cannot be guessed or replicated. It complements user accounts and is "something you have".

NEW QUESTION: 143
A technician is troubleshooting a network issue. Users report that the connection keeps dropping and reconnecting every few seconds. The technician:
- Verifies the network configuration settings are correct on the
workstation
- Tests the network cable from the workstation to the switch and finds
no issues
- Uses a known-good workstation on the existing network cable and
replicates the reported issue
Which of the following should the technician do next?
A. Add new network hardware to reduce congestion
B. Assign a static IP to the impacted workstations.
C. Validate the environment for external interference.
D. Check the network logs for evidence of port flapping.
Answer: (SHOW ANSWER)

Since the NIC, cable, and workstation configuration have all been ruled out, and the problem persists even with a known-good PC on the same switch port, this behavior points to an unstable link at the switch itself (often called "port flapping"). Examining the switch's event or syslog will reveal if the port is constantly going up and down, confirming a hardware or configuration issue on the switch side.

NEW QUESTION: 144
Users report that multiple desktop computers show the wrong date and time. A technician updates the date and time and restarts the legacy system. When the system restarts, the time and date are incorrect again.
Which of the following should the technician do next to troubleshoot?
A. Configure the hardware clock.
B. Install OS updates.
C. Replace the CMOS batteries.
D. Upgrade the NTP settings.
Answer: (SHOW ANSWER)
If the system loses the correct date and time after every reboot, the motherboard is not retaining BIOS/RTC settings when powered off. This is typically caused by a depleted CMOS battery, so replacing it restores proper time retention.

NEW QUESTION: 145
A company wants to have fast read speeds for its locally stored data. Which of the following configurations has the lowest cost to fulfill this requirement?
A. RAID 0
B. RAID 1
C. RAID 5
D. RAID 10
Answer: (SHOW ANSWER)
RAID 0 (striping) provides the fastest read (and write) speeds at the lowest cost, as all disk capacity is used for storage and performance. However, it offers no redundancy.

NEW QUESTION: 146
Which of the following is an example of SaaS?
A. Videoconferencing
B. Managed VDI
C. Hosted database
D. Hypervisor
Answer: A (LEAVE A REPLY)
Videoconferencing platforms (e.g., Zoom, Microsoft Teams) are delivered entirely as cloud-based applications that users access over the Internet, fitting the Software-as-a-Service model.

NEW QUESTION: 147
A technician observes slow startup times on a laptop. Which of the following is most likely causing the issue?
A. HDD
B. RAM
C. NIC
D. BIOS
Answer: (SHOW ANSWER)

A hard disk drive (HDD), especially if it's older or nearly full, is the most common cause of slow startup times in laptops. HDDs are much slower than SSDs and can significantly bottleneck the boot process.

NEW QUESTION: 148
Which of the following ports is commonly used for remote desktop connections?
A. 137
B. 445
C. 3389
D. 4443
Answer: (SHOW ANSWER)
Port 3389 is used by the Remote Desktop Protocol (RDP) for remote desktop connections in Windows environments. This port allows remote control and management of systems across the network.

NEW QUESTION: 149
A user reports that a phone's integration features consistently stop and restart when charging the phone in a car. A technician checks the phone and finds no malicious applications. Which of the following should the technician do to fix the issue?
A. Clean the connection port.
B. Replace the cable with a longer cable.
C. Reinstall MDM software on the phone.
D. Discharge the battery.
Answer: (SHOW ANSWER)
Cleaning the connection port can resolve issues caused by dirt, debris, or corrosion interfering with the phone's charging and data connection, which can cause integration features to stop and restart.

NEW QUESTION: 150
A technician replaces a motherboard in a desktop computer. Alter reassembling the system and turning it on, the computer tails to start, and no display output is shown. The power supply fan and case fans are working, but there are no beep codes or POST messages. Which of the following should the technician do first to make the computer turn on properly?
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A. Replace the power supply with a higher wattage unit.
B. Ensure that the CPU power connector is properly installed.
C. Update the BIOS/UEFI firmware.
D. Reseat the memory modules.
Answer: (SHOW ANSWER)
If fans spin but there is no POST or display after a motherboard replacement, a common cause is the CPU not receiving power. Verifying the CPU power connector (such as the 4-pin or 8-pin EPS connector) ensures the processor is powered and allows the system to start properly.

NEW QUESTION: 151
An office manager must scan a 300-page contract quickly. They are worried about scanning each page one at a time. Which feature will speed up the process?
A. Flatbed scanner
B. Duplexing

C. Automatic document feeder
D. Orientation configuration
Answer: (SHOW ANSWER)
An automatic document feeder (ADF) allows a user to place a stack of multiple pages into the scanner's input tray and have each page automatically fed through the scanner one by one. This eliminates the need to manually place each sheet of a multi-page document onto a flatbed scanner glass, which is a very time-consuming process for a 300-page contract.

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NEW QUESTION: 152
When a user scans a page on a printer, a line always appears on the printout. However, when the user prints from the printer, the line does not appear.
Which of the following maintenance steps should a technician take to resolve the issue?
A. Replace the paper type.
B. Wipe the flatbed glass.
C. Remove any internal debris.
D. Clean the heating element.
Answer: (SHOW ANSWER)
Because the line appears only when scanning and not when printing, the issue is with the scanner rather than the print mechanism. Dirt or debris on the flatbed glass can create consistent lines during scans, so cleaning the glass resolves the problem.

NEW QUESTION: 153
Which of the following networking hardware devices is primarily used to connect different network segments and forward data based on MAC addresses?
A. Router
B. Switch
C. Modem
D. Firewall
Answer: B (LEAVE A REPLY)
A switch operates at Layer 2 and forwards frames between network segments using MAC address tables, enabling efficient communication within a local network.

NEW QUESTION: 154
Which of the following best describes a community cloud?
A. Several companies share the same cloud resources.
B. Cloud resources are locally hosted in a single company's data center.
C. A third-party provider hosts all cloud resources.
D. Some cloud resources are hosted locally while some are hosted by a third-party provider.
Answer: (SHOW ANSWER)
A community cloud is designed to be shared by multiple organizations with common needs, allowing them to use the same cloud infrastructure and resources while addressing shared requirements.

NEW QUESTION: 155
A user's computer system does not complete the startup process and shows the following message:
No boot disk found.
The system does pass the HDD diagnostic test. Which of the following should the technician do to resolve the issue?
A. Change the BIOS from legacy to UEFI.
B. Replace the HDD with an NVMe drive.
C. Disable the Secure Boot feature.
D. Upgrade the operating system to Windows 11.
Answer: (SHOW ANSWER)
If the hard drive passes diagnostics but the system cannot find a boot disk, the most likely cause is a mismatch between the firmware boot mode and how the operating system was installed.
Changing the BIOS from legacy to UEFI aligns the firmware with the disk's boot configuration so the system can locate and start the operating system.

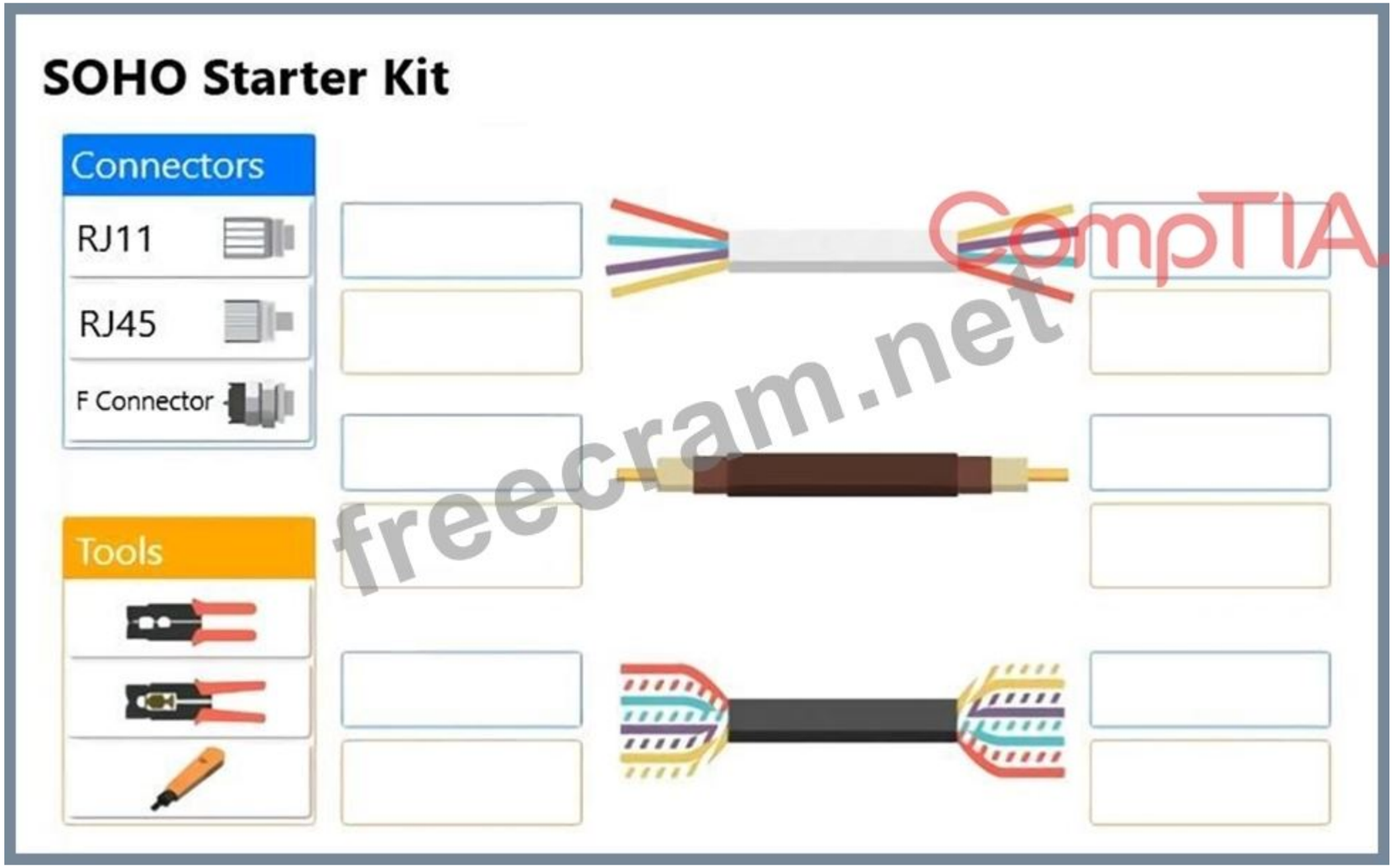
NEW QUESTION: 156
A technician recently replaced a user's laptop screen. Since then, the user has had trouble connecting to wireless networks. Which of the following should the technician do?
A. Verify that wireless technologies are compatible with the updated hardware.
B. Reinstall the wireless drivers after the OS is reloaded.
C. Reconnect the antenna to the system board.
D. Reset the network services.
Answer: C (LEAVE A REPLY)
Laptop wireless antennas are typically routed through the screen assembly. During screen replacement, the antenna cables can become disconnected, which prevents the device from detecting or connecting to wireless networks.

NEW QUESTION: 157
A user's company-issued smartphone is swollen and will not fit in its protective enclosure. Which of the following would a technician most likely do?
A. Replace the battery.
B. Upgrade the RAM.
C. Change the case.
D. Restore to the factory settings.
Answer: (SHOW ANSWER)
A swollen smartphone battery is a sign of chemical degradation and a potential safety hazard.
Replacing the battery restores proper fit and ensures safe operation.

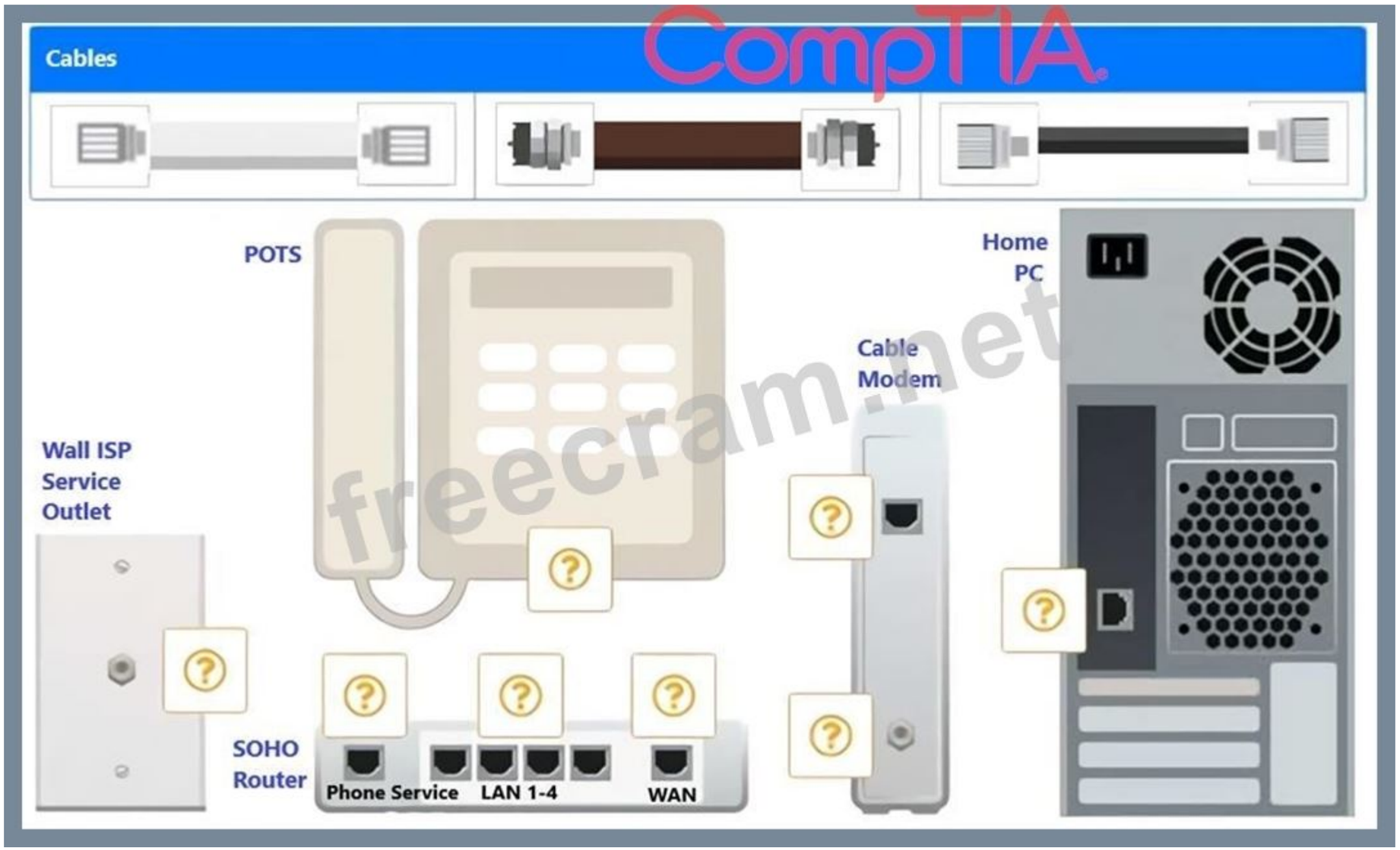
NEW QUESTION: 158
SIMULATION 2
A small ISP has hired a new technician Joe, the new technician, is being trained to configure customers* home networks. The trailing instructor gives me technician a starter kit with cables, cable ends, and other network equipment and asks mm to build a working network.
The computer should be connected to have internet connectivity and the phone should be connected to have a dial tone.
INSTRUCTIONS
Use the appropriate cables. cable ends, tools and equipment to configure the network and connect an components accordingly.
There are 3 steps and the simulation starts on step 1.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Step 1

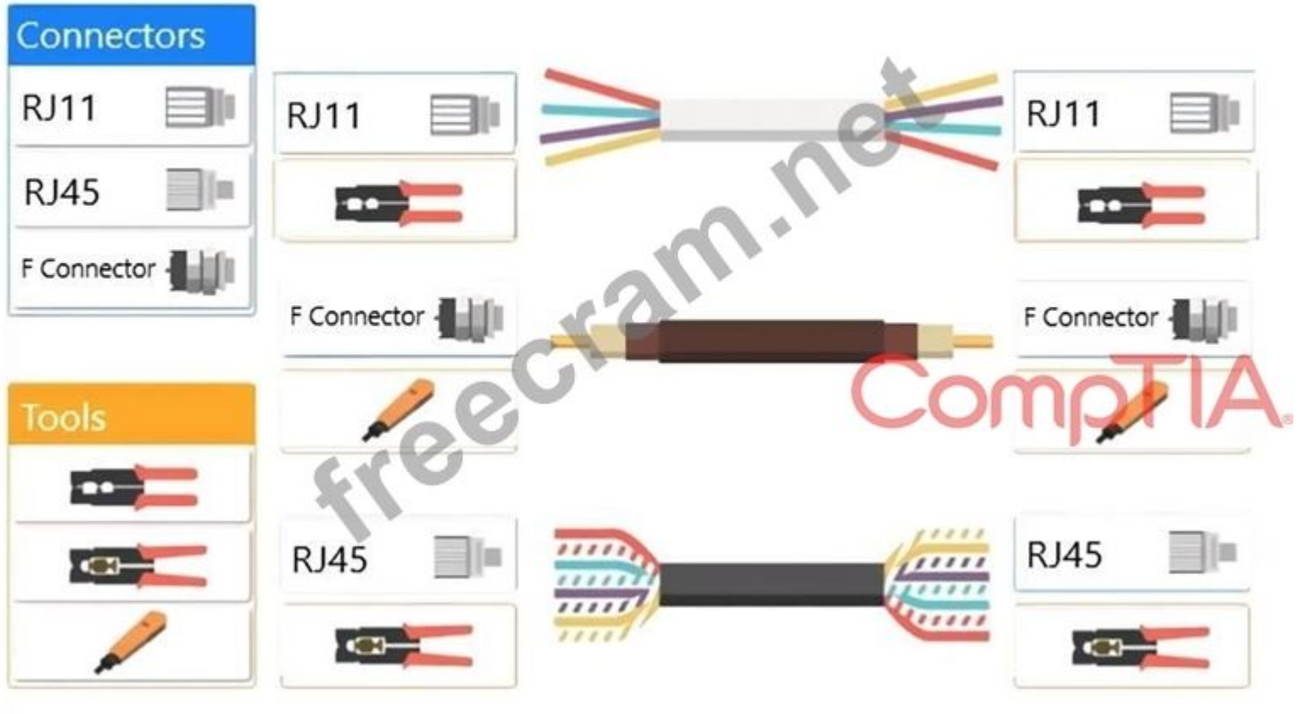


Step 2


Cables
POTS
Home
PC
Cable
Modem
Wall ISP
Service
Outlet
SOHO
Router
Phone Service
LAN 1-4
WAN

Answer:

SOHO Starter Kit



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NEW QUESTION: 159
A high-end workstation with a RAID 5 array is exhibiting slow data access speeds and occasional errors when retrieving files. The technician investigates further and notices one of the hard drives in the RAID array has an amber light. Which of the following steps should the technician take to troubleshoot and resolve the issues?
A. Review network issues that might be causing slow speeds.
B. Upgrade all RAID drives to higher capacity models to increase data access speeds.
C. Replace the failing drive, and then allow the RAID controller to rebuild the array.
D. Reformat all drives in the RAID array to clear any software issues that might be causing the errors.
Answer: (SHOW ANSWER)
An amber light indicates a degraded or failing member of the RAID 5 array. Swapping in a new drive and letting the controller rebuild restores full redundancy and performance without risking data loss.

NEW QUESTION: 160

A help desk technician inspects a laptop keyboard because a single key has stopped working. The technician checks the keyboard for debris. Which of the following actions should the technician do next to troubleshoot the issue cost-effectively?

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A. Replace the keyboard.
B. Replace the key switch
C. Replace the circuit board.
D. Replace the keycap
Answer: (SHOW ANSWER)
If only one key is not functioning and debris has been checked, replacing the individual keycap is the most cost-effective next step. It's a simple, low-cost option before considering more extensive repairs like replacing the entire keyboard.

NEW QUESTION: 161
Which of the following is an advantage of using VDI?
A. Authentication is not required on a domain.
B. Licensing costs are minimized.
C. Less manual configuration is needed for each workstation.
D. A virus is automatically contained locally.
Answer: (SHOW ANSWER)
Virtual Desktop Infrastructure (VDI)hosts desktop environments on centralized servers. This allows rapid deployment and consistent configuration across multiple users, minimizing manual setup and easing IT management.

NEW QUESTION: 162
Which of the following best characterizes a plenum-rated cable?
A. Resistant to fire
B. Avoids electromagnetic interference
C. Exclusively used for external installations
D. Up to 1GB of speed
Answer: (SHOW ANSWER)
Plenum-rated cables are designed with special fire-resistant and low-smoke materials, making them safe for use in air-handling spaces such as ceilings or ducts where fire safety standards are critical.

NEW QUESTION: 163
A major retailer is moving its online shopping website to the cloud and wants to expand its server resources as needed during busier shopping days. Which of the following should the retailer consider?
A. Location
B. Elasticity
C. Availability
D. Multitenancy
Answer: (SHOW ANSWER)
Elasticity in cloud computing refers to the ability to automatically scale resources up or down based on demand, making it ideal for businesses with fluctuating workloads.

NEW QUESTION: 164
A technician connects a WISP modem to a portable router in order to provide an Ethernet connection to a laptop. Which of the following network types has the technician configured?
A. WAN
B. SAN
C. PAN
D. MAN
Answer: (SHOW ANSWER)
According to CompTIA Core 1 (220-1201) networking fundamentals, a WAN is used to connect devices or networks over large geographic areas, typically through an Internet Service Provider (ISP). A WISP (Wireless Internet Service Provider) delivers internet connectivity wirelessly over long distances, which clearly falls under WAN technology.
In this scenario, the technician connects a WISP modem to a portable router to provide Ethernet connectivity to a laptop. The WISP modem represents the WAN link, as it connects the local device to an external network (the internet) managed by the service provider. The portable router then distributes that WAN connection locally via Ethernet.
A SAN (Storage Area Network) is used for high-speed storage communication between servers and storage devices and is unrelated to internet connectivity. A PAN (Personal Area Network) is limited to very short-range connections, such as Bluetooth between personal devices. A MAN (Metropolitan Area Network) covers a city or campus-scale area and is not applicable to a single modem-to-router setup.
CompTIA emphasizes identifying network types based on scope and provider involvement. Since a WISP connection extends beyond the local environment and connects to an ISP, it is classified as a WAN.

NEW QUESTION: 165
Which of the following port numbers is used for a file transfer?
A. 21
B. 53
C. 68
D. 389
Answer: (SHOW ANSWER)
Port 21 is the default TCP port for the File Transfer Protocol (FTP), which is used to establish control connections for file transfers between clients and servers.

NEW QUESTION: 166
Which of the following is an advantage of using a hybrid cloud instead of a public cloud?
A. Ability to reduce management overhead
B. Ability to use cross-platform virtualization
C. Ability to meet data residency requirements
D. Ability to leverage IaaS and PaaS
Answer: (SHOW ANSWER)
A hybrid cloud combines on-premises infrastructure with public cloud services. One significant advantage is that it allows organizations to keep sensitive data in a private environment to meet regulatory or data residency requirements, while still utilizing the scalability and cost-efficiency of the public cloud for other workloads. This ensures compliance with legal mandates about data location.

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NEW QUESTION: 167
A company will retire a legacy application in one year but wants to decommission the physical environment now. Which migration method is best?
A. Relocating the server to a colocated data center
B. Performing a physical-to-virtual conversion and hosting on IaaS
C. Deploying all components using PaaS
D. Taking a backup and shutting down the server
Answer: (SHOW ANSWER)
P2V (physical-to-virtual) conversion allows the legacy application to be moved off its dedicated physical hardware while remaining operational.
Hosting on IaaS (Infrastructure as a Service) means the application runs on virtual servers in a cloud provider's data center, which removes the company's need to maintain a physical environment on-premise.
This approach is ideal for legacy systems nearing retirement because it requires minimal changes to the application itself (often referred to as a "lift and shift" migration), keeping it running for its final year without the burden of managing physical infrastructure.

NEW QUESTION: 168
An IT support specialist needs to configure several laptops to access local resources wherever the employees are while in the office. Which of the following would best meet this requirement?
A. Configure cellular location services to facilitate device identification.
B. Set up a Wi-Fi connection with a common SSID.
C. Enable Bluetooth connectivity in all laptops.
D. Create roaming profiles for each laptop.
Answer: (SHOW ANSWER)
Configuring a Wi-Fi network with a common SSID allows laptops to automatically connect to the same wireless network across different access points within the office, ensuring seamless access to local resources anywhere on the premises.

NEW QUESTION: 169
Which of the following is the ability to automatically increase and decrease instances based on demand?
A. Availability
B. Scalability
C. Multitenancy
D. Elasticity
Answer: (SHOW ANSWER)
Elasticity in cloud computing refers to the ability of a system to automatically allocate and release resources (such as CPU, RAM, or virtual machines) as workload demands change. This feature is key to ensuring that resources are used efficiently without manual intervention.

NEW QUESTION: 170
Which of the following connector types would most likely be used to connect a fiber-optic cable to an SFP module?

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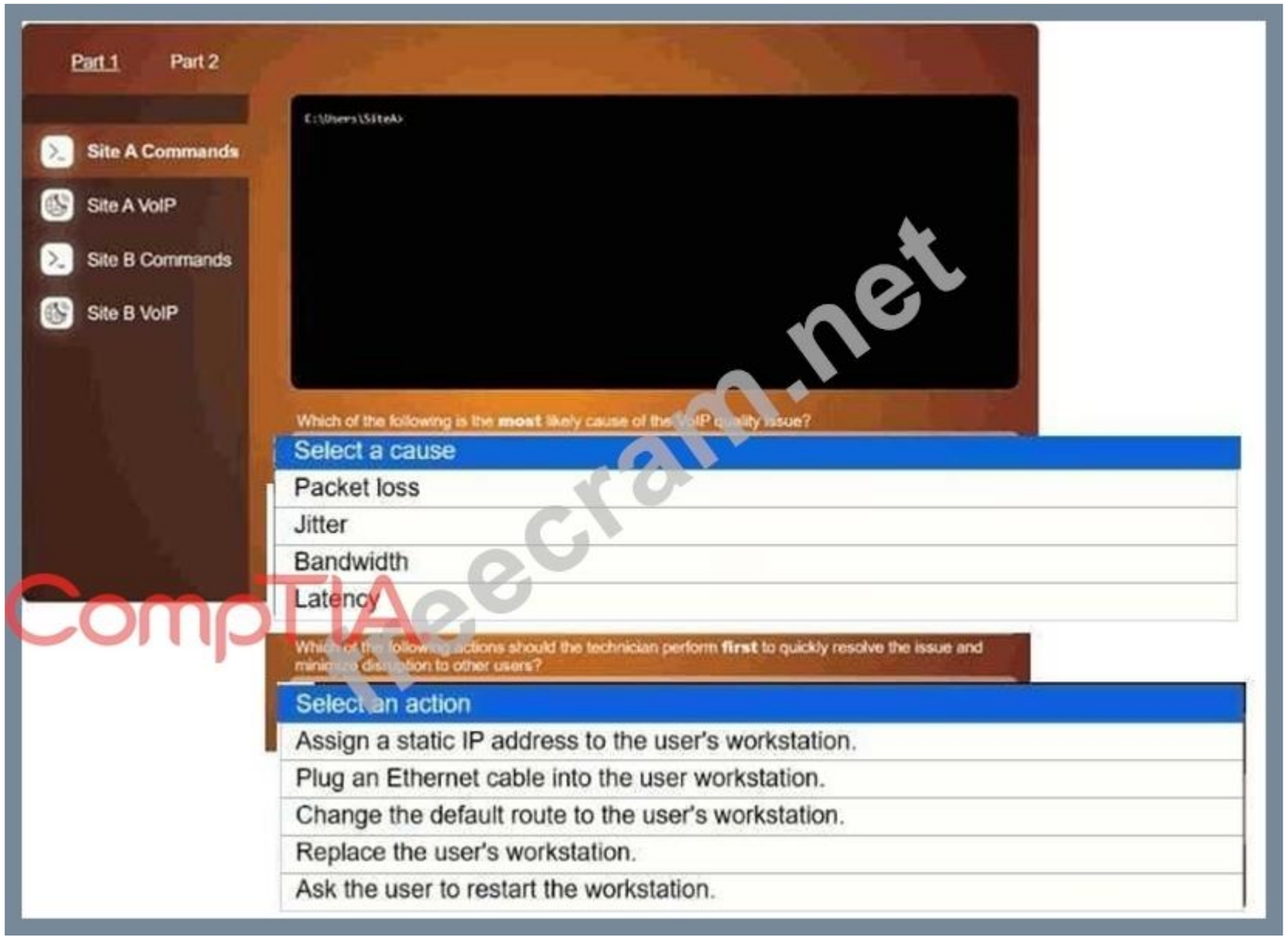
A. ST
B. SC
C. FC
D. LC
Answer: (SHOW ANSWER)
LC connectors are the standard small form-factor connectors commonly used with SFP modules, providing a compact and secure connection for fiber-optic cables.

NEW QUESTION: 171
A technician must upgrade a computer system to improve its overall processing performance.
Which of the following should the technician focus on to ensure maximum system performance?
A. Integrated GPU
B. Power connectors
C. Voltage regulator module
D. Clock frequency
Answer: (SHOW ANSWER)
Clock frequency is one of the most significant factors influencing a computer system's processing performance, clock speed-measured in gigahertz (GHz)-determines how many instruction cycles a processor can perform per second.
Higher clock frequencies generally result in faster execution of instructions, leading to improved performance in both single-threaded and multi-threaded workloads. While modern CPUs also rely on core count, cache size, and architecture efficiency, clock frequency remains a primary metric for evaluating raw processing speed.

NEW QUESTION: 172
Which of the following storage devices is most suitable for quick data access and retrieval speeds on a laptop?
A. SATA M.2
B. NVMe SSD
C. Optical disk
D. 7,200rpm HDD
Answer: (SHOW ANSWER)
NVMe (Non-Volatile Memory Express) SSDs provide the fastest data access and retrieval speeds compared to other storage types, especially on laptops. NVMe SSDs use the PCIe interface, which allows significantly higher throughput and lower latency than SATA-based storage.
This improves boot times, application load times, and overall system responsiveness.

NEW QUESTION: 173
SIMULATION 11
User at site A is reporting dropped VoIP calls when using a softphone application.
However, users at site B are not experiencing any issues. The VoIP provider has a tool to troubleshoot connectivity Issues.
Click on each tab to investigate the cause of the dropped calls. In Part 1, type help in each terminal to view a list of available commands. Then, select the correct answer for each question.
In Part 2, make unnecessary network configuration changes to resolve reported issue.



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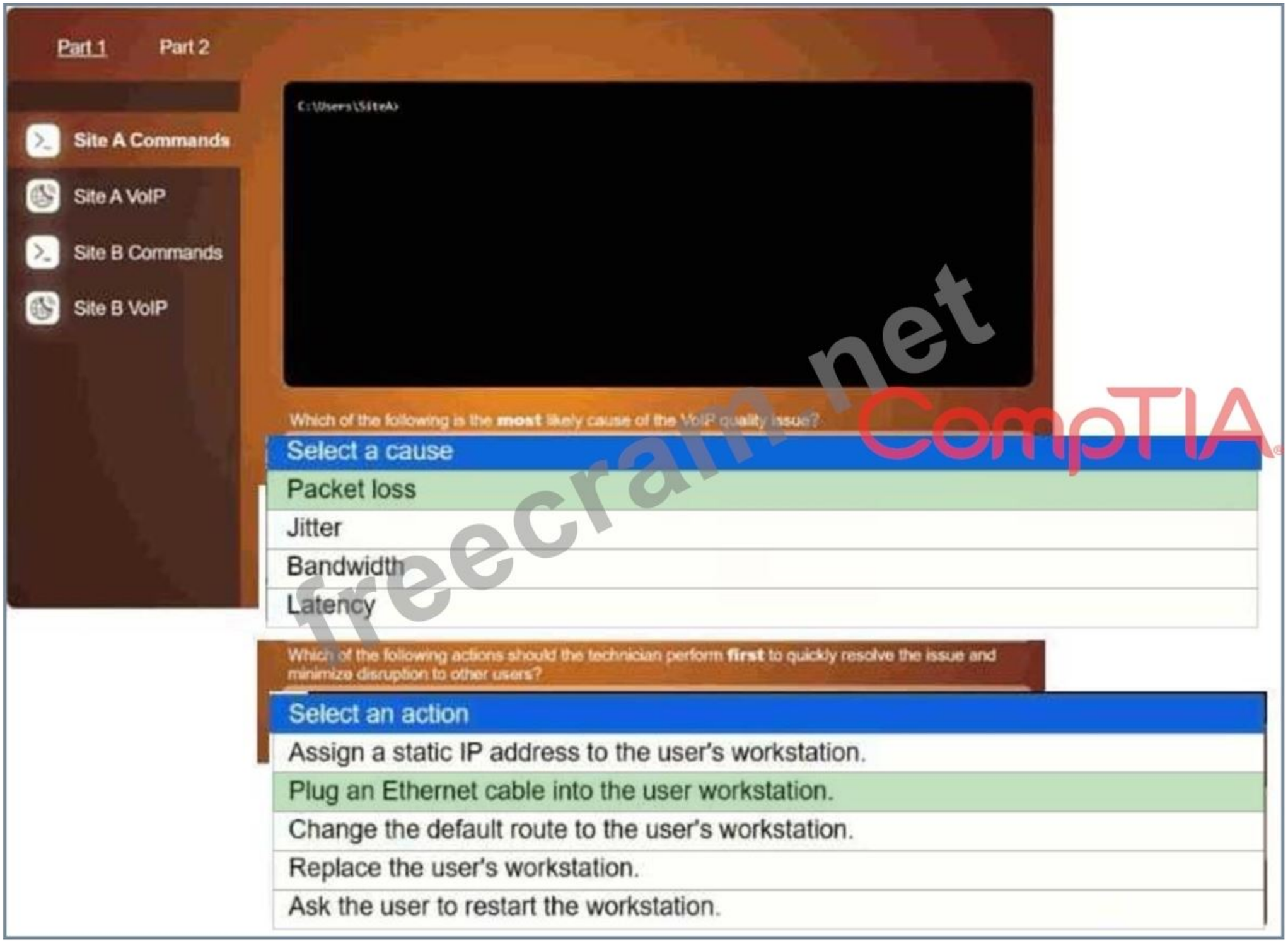
Answer:



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NEW QUESTION: 174
Which of the following is typically found in server memory modules?
A. RGB

B. ECC
C. Static
D. SODIMM
Answer: (SHOW ANSWER)
Server memory modules commonly use error-correcting code memory, which can detect and correct single-bit memory errors to improve system reliability and stability in mission-critical environments.

NEW QUESTION: 175
Which of the forming connector types would best suit a company that experiences a large volume of internet traffic?
A. USB 3.1
B. Quad-shielded RG11 coax
C. SATA3.0
D. Unshielded plenum RJ45
Answer: (SHOW ANSWER)
RG11 coaxial cable with quad shielding is designed to handle large volumes of internet traffic, providing excellent resistance to interference and high bandwidth capacity.

NEW QUESTION: 176
A user asks a technician to increase the storage capacity of their new laptop by adding another SSD. Which of the following connectors will the technician most likely use?
A. USB
B. SATA
C. SAS
D. SCSI
Answer: (SHOW ANSWER)
Most laptops use SATA connections for adding or upgrading internal SSDs (especially 2.5-inch drives). SATA is the standard interface for consumer-grade storage devices in laptops.

NEW QUESTION: 177
Which of the following ports should a technician disable to increase the security of remote connectivity?
A. 22
B. 23
C. 25
D. 53
Answer: (SHOW ANSWER)
Port 23 is used by Telnet, an unencrypted remote connection protocol that poses significant security risks. Disabling Telnet and using secure alternatives like SSH (port 22) is best practice.

NEW QUESTION: 178
A company deploys server machines in a public cloud. Which of the following cloud service models is this an example of?
A. Platform as a service
B. Anything as a service
C. Infrastructure as a service
D. Software as a service
Answer: (SHOW ANSWER)

Infrastructure as a Service (IaaS) provides virtualized computing resources over the internet. This includes virtual servers, storage, and networking. Deploying server machines falls under IaaS since the organization is responsible for managing the OS and applications on top of the infrastructure.

NEW QUESTION: 179
A SOHO user cannot connect to the internet. Their configuration shows:
IP: 192.168.223.15
Mask: 255.255.255.0
Gateway: 192.168.233.1
DNS: 8.8.8.8, 4.2.2.1, 4.2.2.2
Baseline documentation shows valid subnet range: 192.168.200.0-192.168.232.255.
Which setting must be changed?
A. Tertiary DNS
B. Secondary DNS
C. Primary DNS
D. IP Address
E. Gateway
F. Subnet mask
Answer: E (LEAVE A REPLY)
The baseline documentation says the valid network range ends at 192.168.232.255, but the user's gateway is 192.168.233.1, which is outside the permitted network range. CompTIA A+ emphasizes that devices must have a gateway inside their own subnet.
Given a mask of 255.255.255.0, the user's subnet is 192.168.223.x, so the gateway must be in
192.168.223.x, not 192.168.233.x.
DNS settings are public and acceptable. The IP address and subnet mask are valid within the documented address space.
Therefore, the incorrect setting is the gateway, which prevents external routing. Correcting it resolves the connection issue, matching CompTIA's routing and TCP/IP troubleshooting procedures.

NEW QUESTION: 180
Which of the following is most commonly used to increase 802.11 wireless throughput speed?
A. Licensed bands
B. Maximum transmission unit
C. Transmit power
D. Channel width
Answer: (SHOW ANSWER)
Channel width refers to the size of the frequency band used for Wi-Fi communication.
Increasing channel width (e.g., from 20 MHz to 40 MHz, 80 MHz, or 160 MHz) allows more data to be transmitted at once, effectively increasing wireless throughput speed.

NEW QUESTION: 181
A technician is troubleshooting a computer that has random BSOD alerts and intermittently freezes during normal use. Performance degrades as the day goes on. No new software or hardware changes have been implemented. Freezing occurs under performance-intensive operations. Which of the following hardware components is most likely at fault?
A. Video card
B. HDD
C. RAM module

D. TPM
Answer: (SHOW ANSWER)
Random BSODs (Blue Screen of Death), intermittent freezing, and degraded performance under load are common symptoms of failing or faulty RAM (Random Access Memory).
Faulty or failing RAM can cause random BSODs due to memory errors when the system attempts to read or write to corrupted memory locations.
Intermittent freezing, especially under performance-intensive operations, can occur because the CPU relies heavily on RAM for active processing tasks.
Over time, heat generated during usage can exacerbate RAM instability, leading to progressively worse performance throughout the day.
Solution: The technician should run a memory diagnostic tool, such as Windows Memory Diagnostic or MemTest86, to confirm if the RAM is at fault.

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NEW QUESTION: 182
Which of the following allows a physical server to host multiple virtual machines?
A. Cross-platform virtualization
B. Hypervisor
C. Sandbox
D. SaaS
Answer: (SHOW ANSWER)
A hypervisor is software or firmware that allows multiple operating systems (virtual machines) to run on a single physical host. It manages the allocation of resources and isolation of each VM.

NEW QUESTION: 183
A user keeps getting an error message when trying to print a letter. The printer is normally used to print cards and invitations. The user tries printing from a different computer, but the issue persists. Which of the following should the user do to resolve the issue?
A. Print fewer pages.
B. Print on card stock
C. Replace the rollers.
D. Change the paper tray setting.
Answer: (SHOW ANSWER)
If a printer is set to use a special tray (for cards/invitations) but a different type of print job is attempted (like a letter), a paper tray setting mismatch can cause errors. Changing the tray setting to match the print media resolves the issue.

NEW QUESTION: 184
A technician needs to replace a laptop's display assembly. Which of the following should the technician do to complete this task?
A. Reattach the heat sinks.
B. Reconnect the wireless antennas.
C. Install a new CPU fan.
D. Reset the BIOS to default settings.
Answer: B (LEAVE A REPLY)

The laptop's wireless antennas are typically routed through the display assembly. When replacing the display, the technician must reconnect these antennas to restore Wi-Fi and Bluetooth functionality.

NEW QUESTION: 185
A customer reports their tablet was recently dropped on the ground. The tablet has a small crack in one corner of the display, and it does not charge when plugged in. Which of the following should a technician do first?
A. Perform a hard restart.
B. Replace the battery
C. Inspect the USB-C port for damage
D. Run diagnostics on the digitizer
Answer: (SHOW ANSWER)
Physical damage from dropping a tablet may often affect ports or connectors. Before taking deeper diagnostic or replacement steps, it's important to visually inspect the USB-C charging port for damage or debris. If the port is damaged, charging issues can occur regardless of battery health.

NEW QUESTION: 186
Which of the following devices is used to implement ACL polices for an environment?
A. Managed switch
B. Gateway
C. Repeater
D. Firewall
Answer: (SHOW ANSWER)
A firewall implements ACLs (Access Control Lists) to filter traffic and enforce policies based on rules such as IP address, port, or protocol.

NEW QUESTION: 187
A SOHO customer runs an OS on a bare-metal server that has been EOL for almost a decade and is showing signs of failure. The application meets all the customer's needs, and they want to continue using it. However, the developer went out of business, and there is no way to upgrade it.
A technician does not think the OS will run on modern hardware. Which of the following will allow the customer to use the application long-term?
A. Continue to use the current system until failure.
B. Virtualize the entire system under a compatible hypervisor.
C. Containerize the application in a multitenant cloud environment.
D. Clone the disks and run the application from a USB enclosure.
Answer: (SHOW ANSWER)
Virtualizing the entire system under a compatible hypervisor allows the legacy OS and application to run on modern hardware by creating a virtual environment that mimics the original system, ensuring long-term usability despite hardware changes.

NEW QUESTION: 188
Which of the following types of RAM would most likely be used in a server?
A. SODIMM
B. ECC
C. Unbuffered
D. DDR3

Answer: (SHOW ANSWER)
ECC (Error-Correcting Code) RAM is commonly used in servers because it can detect and correct memory errors, providing greater stability and reliability for mission-critical environments.

NEW QUESTION: 189
A user reports intermittent Wi-Fi issues in an open office. Other users are not affected. What is the most likely cause?
A. Interference from other Wi-Fi signals
B. All users are on the same frequency
C. The laptop's wireless card is malfunctioning
D. The antenna is near a device creating electromagnetic interference
Answer: (SHOW ANSWER)
Since the issue affects only one user while others in the same area have stable connectivity, the most likely cause is a malfunctioning wireless card in that specific laptop, leading to intermittent signal behavior.

NEW QUESTION: 190
Some users are unable to access their workstations. An administrator runs ipconfigon one of the workstations and sees the following:
IPv4 address: 192.168.1.27
Subnet mask: 255.255.255.0
Default gateway: 192.168.1.1
The administrator runs the following command and receives this output:
C:\Users\User> ping gateway
Pinging gateway (192.168.1.1) with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Which of the following is the source of issue?
Freecram.net
A. Web server
B. Router
C. DNS
D. DHCP
Answer: (SHOW ANSWER)
The workstation has a valid IPv4 address, subnet mask, and default gateway on the same subnet, but it cannot reach the default gateway because ping requests to 192.168.1.1 time out.
This indicates the gateway device (router) is unreachable or not responding, which would prevent access to network resources beyond the local host.

NEW QUESTION: 191
A user reports issues trying to print to a printer. Every time the user tries to print, continuous pages of random characters are printed. There are no smudging or print quality issues. Which of the following should the technician do to resolve this issue?
A. Reinstall the printer driver software.
B. Configure the printer DPI settings.
C. Replace the toner cartridge.
D. Update the printer's firmware.
Answer: A (LEAVE A REPLY)

Continuous pages of random characters indicate a communication or driver mismatch issue between the computer and the printer. Reinstalling the correct printer driver ensures proper interpretation of print jobs and resolves the issue.

NEW QUESTION: 192
Which of the following cable types can be used to transfer data and video?
A. USB-C
B. HDMI
C. DisplayPort
D. VGA
Answer: (SHOW ANSWER)
USB-C is a versatile connector capable of transmitting data, video, audio, and power. With standards like DisplayPort over USB-C or Thunderbolt 3/4, it can be used for external displays, file transfers, charging, and more -- all through one cable.

NEW QUESTION: 193
Which of the following networking technologies allows for high-speed data transmission over short distances between devices like smartphones and tablets?
A. Near-field communication
B. Zigbee
C. Infrared
D. Wi-Fi Direct
Answer: (SHOW ANSWER)
Wi-Fi Direct is designed to provide high-speed, short-range wireless communication directly between devices such as smartphones, tablets, laptops, and printers without requiring a traditional wireless access point. Wi-Fi Direct uses standard Wi-Fi radio technology, allowing devices to communicate at speeds comparable to typical wireless LAN connections.

NEW QUESTION: 194
A technician is setting up a locally hosted environment for internal developers who need concurrent access to a wide array of test OSs. Which of the following would best fulfill this requirement?
A. Hypervisor
B. SaaS platform
C. Multiboot server computer
D. Sandbox
Answer: (SHOW ANSWER)
A hypervisor allows multiple operating systems to run simultaneously on a single physical host, making it the ideal solution for providing concurrent access to different test environments. Developers can use virtual machines (VMs) for testing and development.

NEW QUESTION: 195
A user's wireless headset shows a "connected" status when turned on, but the Bluetooth list on the user's phone shows that the headset is "not connected.". Which of the following should the technician do?
A. Enter the PIN.
B. Turn off Wi-Fi.
C. Re-pair the devices.
D. Enable Bluetooth.
Answer: (SHOW ANSWER)

When a device shows as not connected even though it previously paired, the most effective action is tore-pair the devices. This resets the Bluetooth connection, clears any corruption in pairing profiles, and re- establishes communication.

NEW QUESTION: 196
The output from a dot matrix printer has become lighter over time. Which of the following should a technician do to fix the issue?
A. Clean the printhead.
B. Replace the ribbon.
C. Install a maintenance kit.
D. Calibrate the alignment.
Answer: B (LEAVE A REPLY)
Dot matrix printers use an inked ribbon that physically contacts the paper through tiny pins. Over time, the ribbon wears out or dries up, resulting in faded or light print output. Replacing the ribbon restores print quality.

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NEW QUESTION: 197
Which of the following resolutions is commonly known as Ultra HD?
A. 1920x1080
B. 2048x1080
C. 3840x2160
D. 7680x4320
Answer: (SHOW ANSWER)
Ultra HD (UHD), also referred to as4K UHD, has a resolution of3840x2160. It's four times the resolution of standard 1080p (Full HD), offering more screen real estate and sharper images.

NEW QUESTION: 198
Which of the following devices can handle large volumes of data and uses flash memory?
A. SSD
B. DVD-RW
C. HDD
D. Tape
Answer: (SHOW ANSWER)
Solid-state drives use flash memory for storage, allowing them to handle large volumes of data with fast access speeds and no moving parts.

NEW QUESTION: 199
A computer displays an error message indicating there is insufficient storage when installing applications. The user reports slow application load times. Which of the following replacement components would best resolve this issue?
A. SSD

B. USB
C. HDD
D. RAM
Answer: (SHOW ANSWER)
Upgrading to asolid-state drive (SSD) provides more storage space and faster read/write speeds, which resolves both the "insufficient storage" error and slow application loads.

NEW QUESTION: 200
Which of the following offers access to business productivity applications for a recurring fee?
A. SaaS
B. DaaS
C. PaaS
D. IaaS
Answer: (SHOW ANSWER)
Software as a Service (SaaS) provides users access to fully managed applications hosted in the cloud. CompTIA A+ explains that SaaS is subscription-based and typically billed monthly or annually, which aligns perfectly with the phrase "recurring fee." Business productivity applications-such as Microsoft 365, Google Workspace, Zoom, Slack, and Salesforce-are classic examples of SaaS offerings.
SaaS applications run entirely in the provider's cloud environment, eliminating the need for installation, maintenance, or management by the customer. This makes SaaS ideal for businesses that need reliable, scalable tools without maintaining their own infrastructure.

NEW QUESTION: 201
An administrator is configuring a SOHO network. The network scope requires static IP addresses for printers. Which of the following must the administrator set manually? (Choose two.)
A. DHCP
B. Subnet mask
C. Default gateway
D. DNS
E. Reservations
F. Exclusions
Answer: (SHOW ANSWER)
When configuring a device with a static IP address, the subnet mask must be manually set so the printer can determine which addresses are local. The default gateway must also be manually configured to allow the printer to communicate with devices outside its local network, such as management systems or other subnets.

NEW QUESTION: 202
Which of the following cable types is used to connect a display?
A. DVI
B. RJ45
C. SATA
D. USB 1.1
Answer: (SHOW ANSWER)
DVI (Digital Visual Interface) is specifically designed to carry video signals from a computer's graphics card to a display device.

NEW QUESTION: 203

A company network is spread across multiple office branches that are located within the same postal code and connected using leased lines. Which of the following best describes this network type?

A. Campus area network

B. Metropolitan area network

C. Local area network

D. Wide area network

Answer: A (LEAVE A REPLY)

A campus area network connects multiple buildings or office locations within a limited geographic area, such as the same postal code, using high-speed links like leased lines, providing centralized network management and connectivity.

NEW QUESTION: 204

Which of the following protocol ports is used for secure remote access to a network device?

A. 21

B. 22

C. 23

D. 25

Answer: (SHOW ANSWER)

Secure remote access to network devices is performed using SSH, which operates on port 22. It provides encrypted communication, ensuring confidentiality and protection against interception.

NEW QUESTION: 205

A technician needs to deploy a router at a home office to provide internet access. The WAN port is required to connect to a static, public IP address assigned by the ISP. Which of the following should the ISP assign?

A. 10.1.1.1

B. 172.16.0.1

C. 192.30.0.1

D. 192.168.10.1

Answer: (SHOW ANSWER)

192.30.0.1 is a public IP address, which can be assigned by an ISP for WAN connectivity. The other options (10.x.x.x, 172.16.x.x-172.31.x.x, and 192.168.x.x) are private IP ranges and cannot be used as public-facing addresses on the internet.

NEW QUESTION: 206

Which of the following describes an advantage of traditional HDDs over SSDs?

A. Faster data access speeds

B. Increased energy efficiency

C. Higher storage capacity per cost

D. Lower weight and size

Answer: (SHOW ANSWER)

Traditional hard disk drives offer a lower cost per gigabyte, allowing for higher storage capacity at a more affordable price compared to solid-state drives.

NEW QUESTION: 207

SIMULATION 7

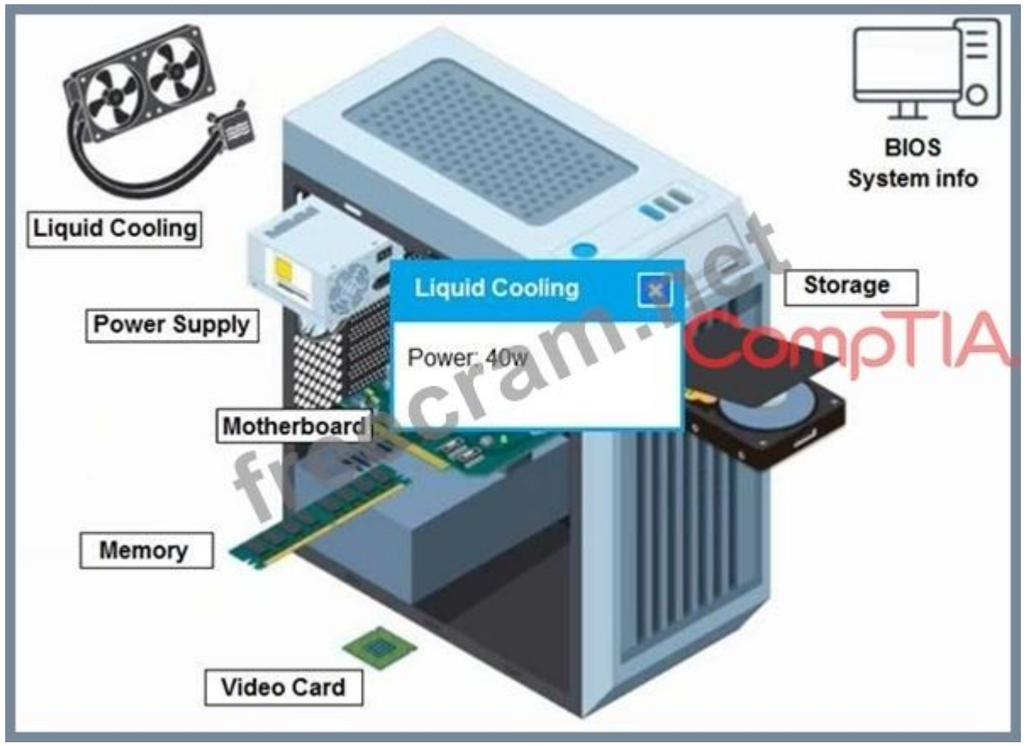
A customer built a computer for gaming, sourcing individual components and then assembling the system. The OS starts up, but within a few minutes the machine locks up. The customer brought the computer to a technician to diagnose the issue.

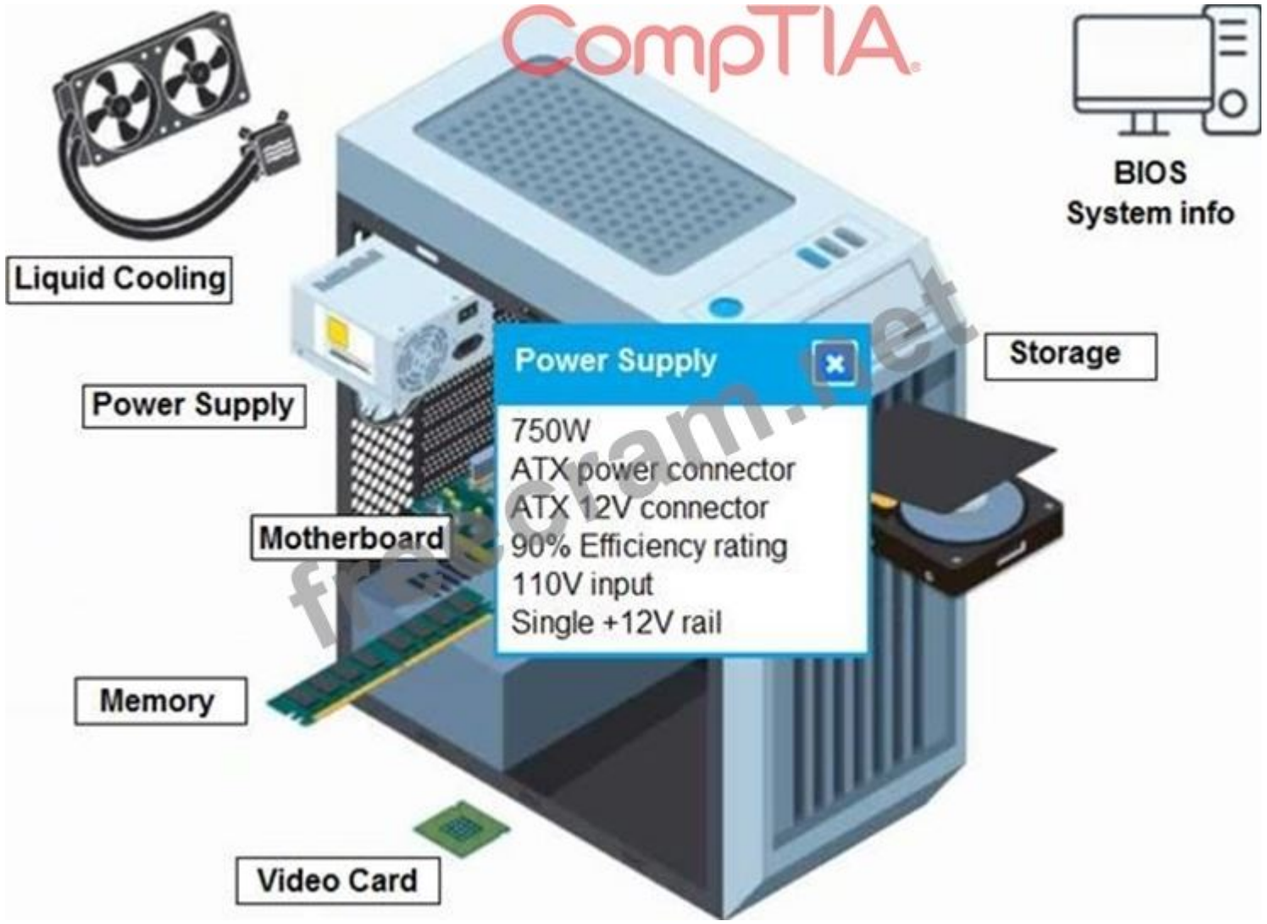
INSTRUCTIONS

Click on each component to view the specification.

Select the appropriate cause and resolution for the issue.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

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Liquid Cooling
BIOS
System info
Power Supply
Storage
Power Supply
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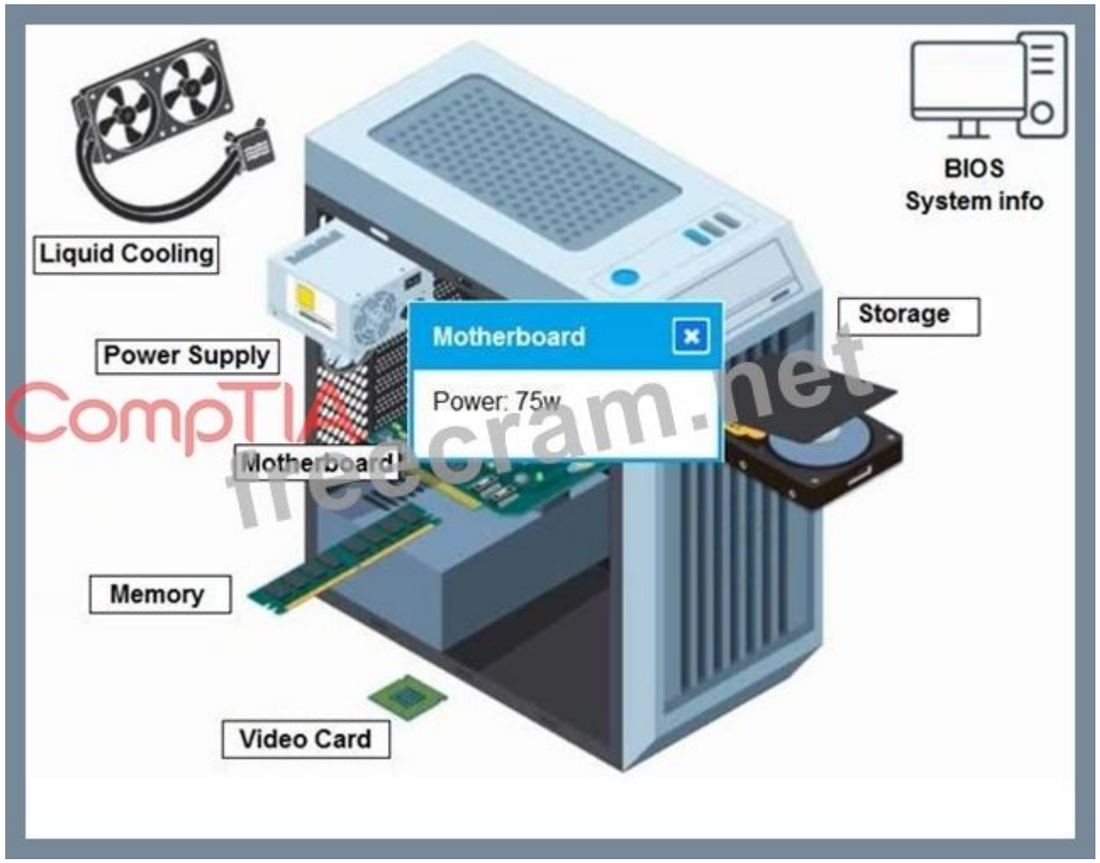
ATX power connector
ATX 12V connector
90% Efficiency rating
110V input
Single +12V rail
Motherboard
Memory
Video Card


Liquid Cooling
BIOS
System info
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Motherboard
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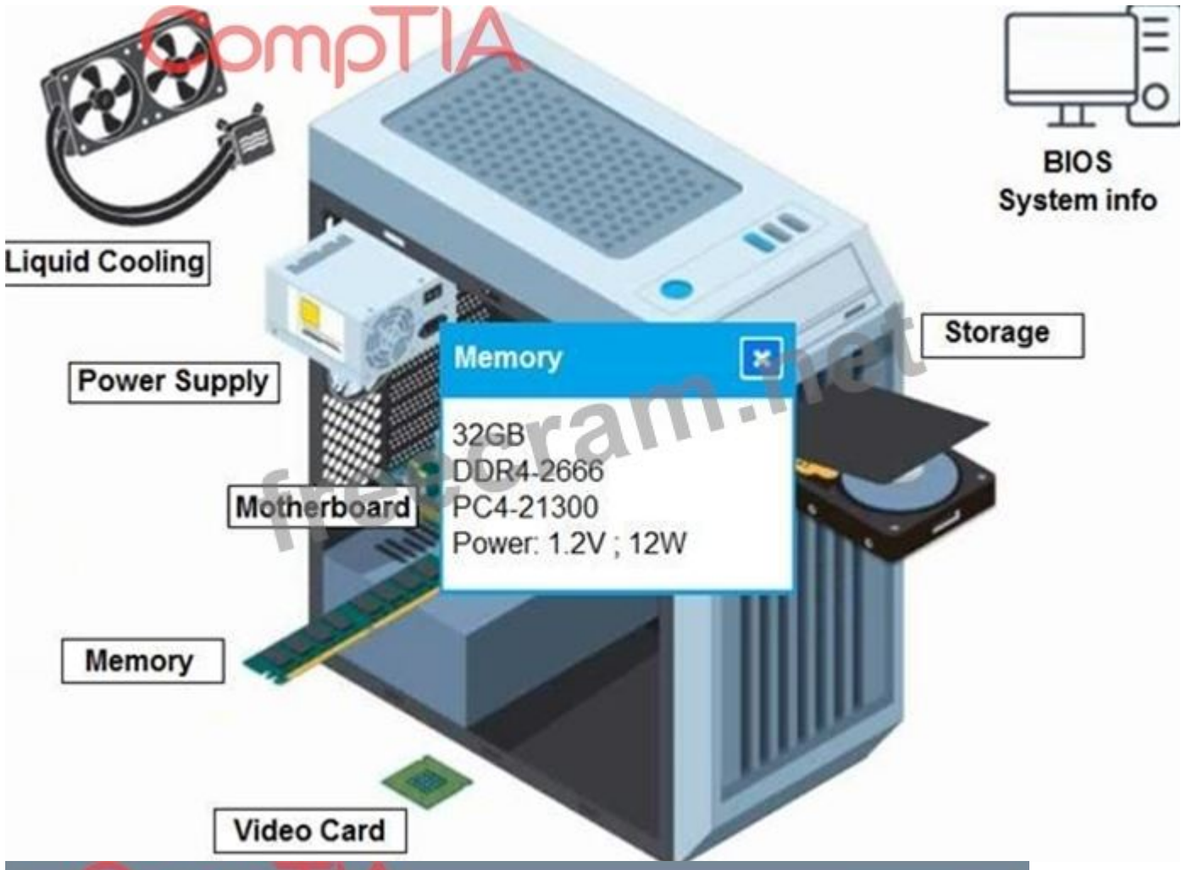
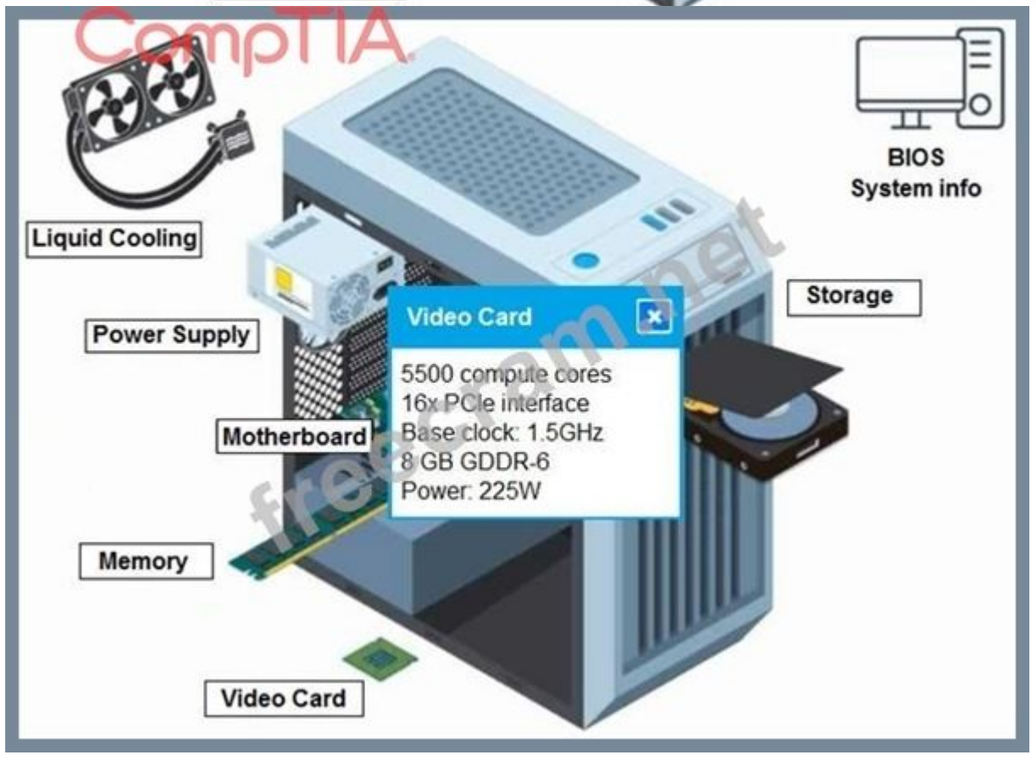
Storage
Motherboard
Memory
Video Card


CompTIA
BIOS
System info
Liquid Cooling
Storage
Power Supply
Memory
32GB
DDR4-2666
PC4-21300
Power: 1.2V ; 12W
Motherboard
Memory
Video Card


CompTIA
BIOS
System info
Liquid Cooling
Storage
Power Supply
Video Card
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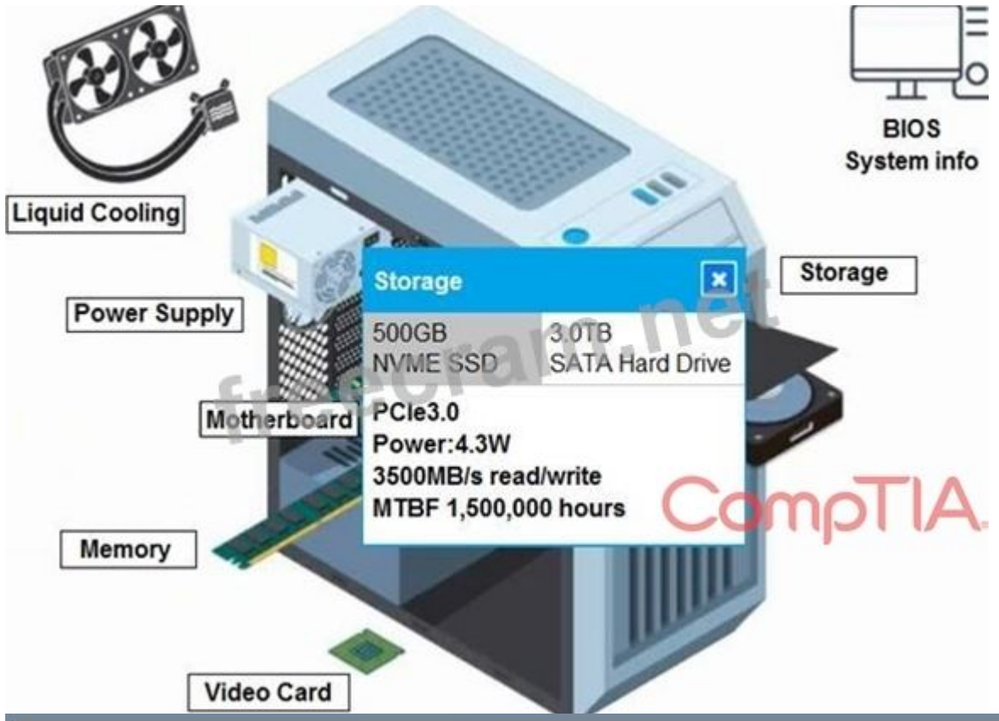
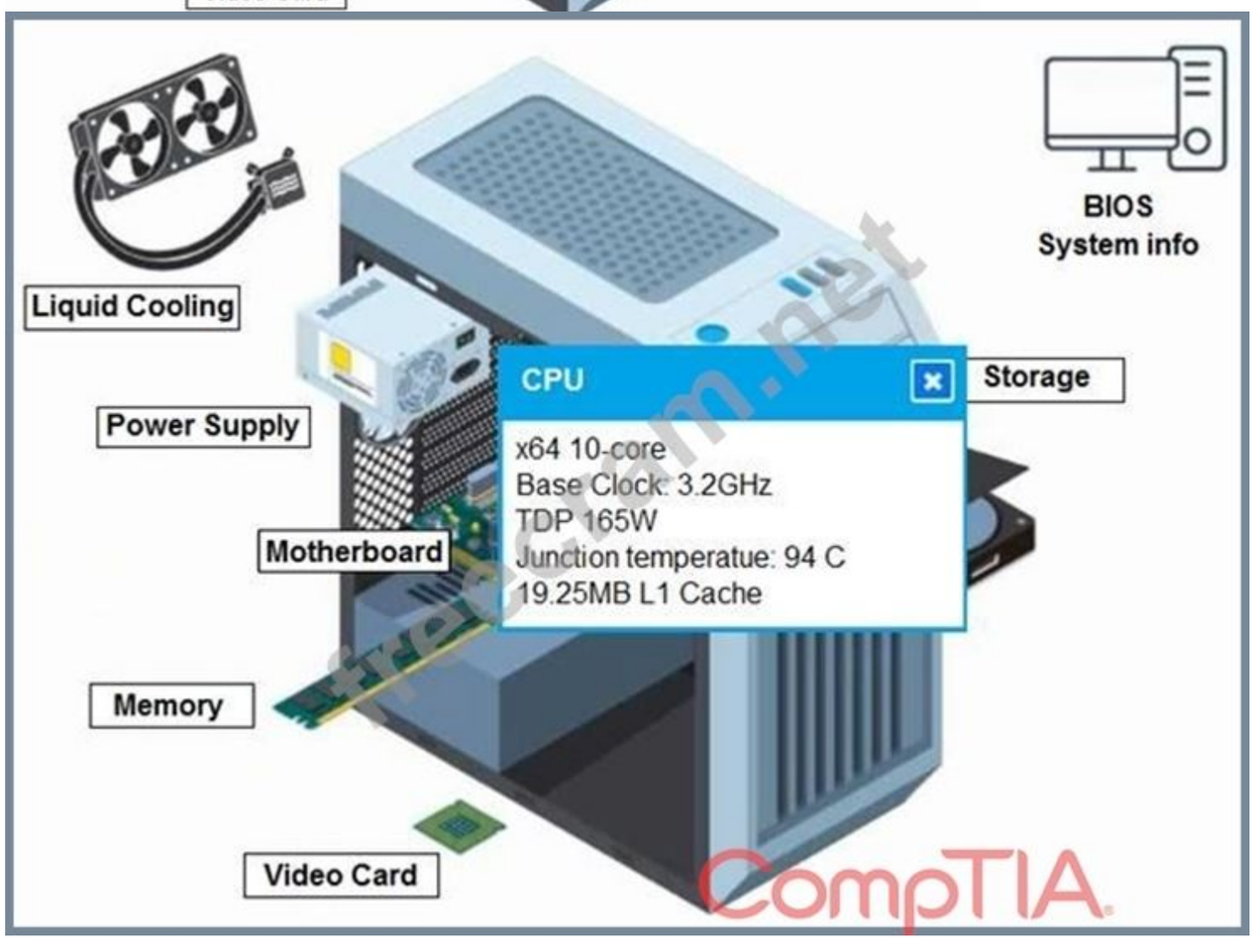
16x PCIe interface
Base clock: 1.5GHz
8 GB GDDR-6
Power: 225W
Motherboard
Memory
Video Card


Liquid Cooling
Power Supply
Motherboard
Memory
Video Card
BIOS
System info
Storage
Storage
500GB
NVME SSD
3.0TB
SATA Hard Drive
PCIe3.0
Power:4.3W
3500MB/s read/write
MTBF 1,500,000 hours
CompTIA


Liquid Cooling
Power Supply
Motherboard
Memory
Video Card
BIOS
System info
Storage
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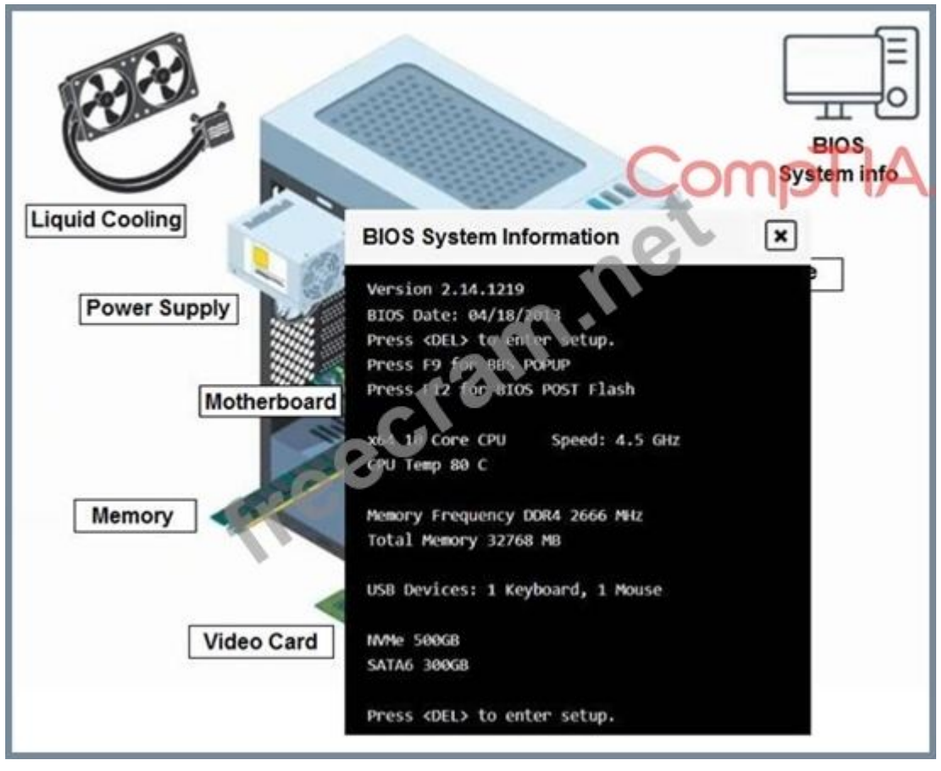
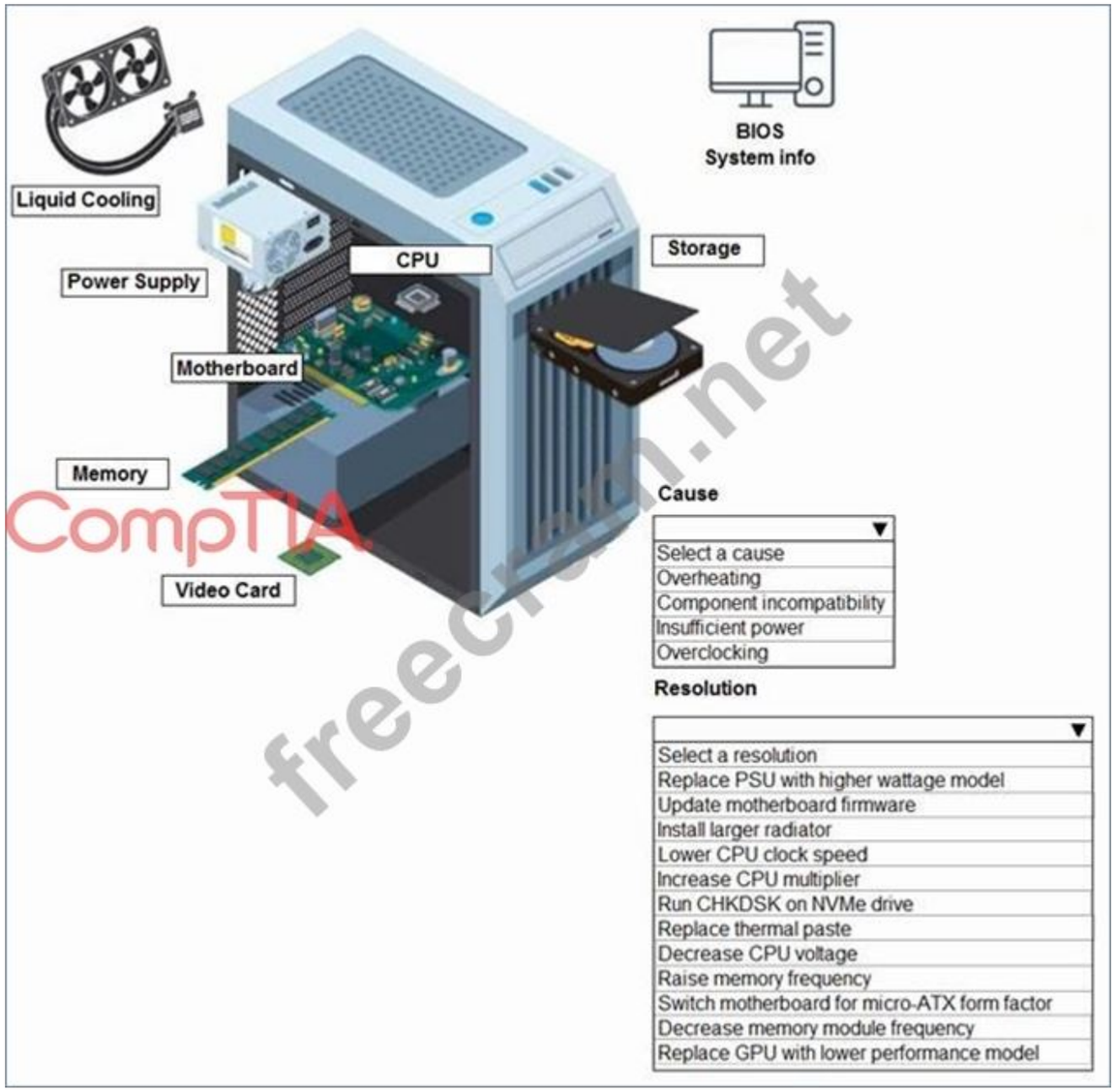
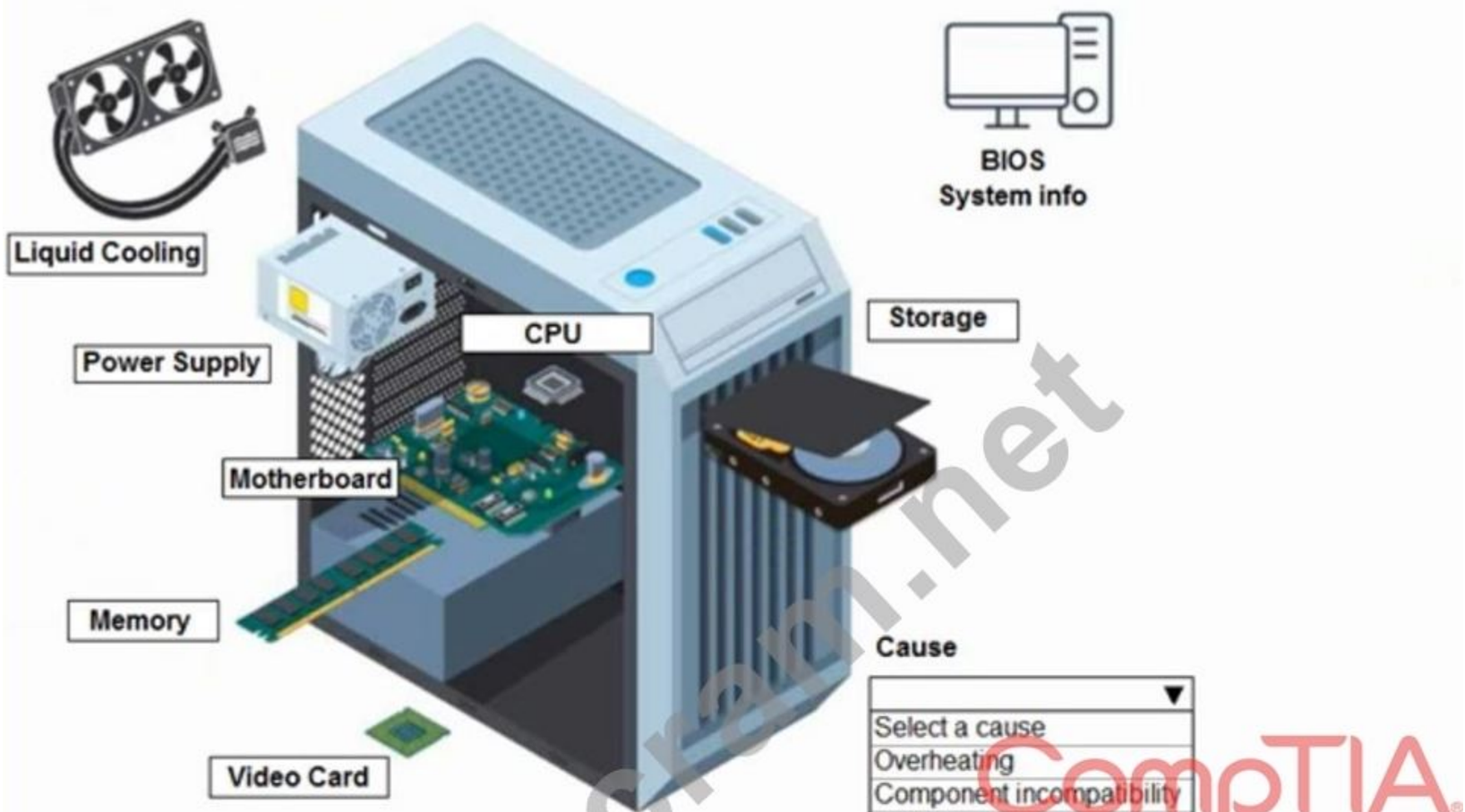
x64 10-core
Base Clock: 3.2GHz
TDP 165W
Junction temperatue: 94 C
19.25MB L1 Cache
CompTIA


Liquid Cooling
Power Supply
Motherboard
Memory
Video Card
BIOS
System info
BIOS System Information
Version 2.14.1219
BIOS Date: 04/18/2013
Press <DEL> to enter setup.
Press F9 for BBS POPUP
Press F12 for BIOS POST Flash
x64 16 Core CPU Speed: 4.5 GHz
CPU Temp 80 C
Memory Frequency DDR4 2666 MHz
Total Memory 32768 MB
USB Devices: 1 Keyboard, 1 Mouse
NVMe 500GB
SATA6 300GB
Press <DEL> to enter setup.


Liquid Cooling
BIOS
System info
Storage
CPU
Power Supply
Motherboard
Memory
Video Card
Cause
Select a cause
Overheating
Component incompatibility
Insufficient power
Overclocking
Resolution
Select a resolution
Replace PSU with higher wattage model
Update motherboard firmware
Install larger radiator
Lower CPU clock speed
Increase CPU multiplier
Run CHKDSK on NVMe drive
Replace thermal paste
Decrease CPU voltage
Raise memory frequency
Switch motherboard for micro-ATX form factor
Decrease memory module frequency
Replace GPU with lower performance model

Answer:



Cause

- Select a cause
- Overheating
- Component incompatibility
- Insufficient power
- Overclocking

Resolution

- Select a resolution
- Replace PSU with higher wattage model
- Update motherboard firmware
- Install larger radiator
- Lower CPU clock speed
- Increase CPU multiplier
- Run CHKDSK on NVMe drive
- Replace thermal paste
- Decrease CPU voltage
- Raise memory frequency
- Switch motherboard for micro-ATX form factor
- Decrease memory module frequency
- Replace GPU with lower performance model

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Explanation:

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: 208
Which of the following display technologies typically provides the highest contrast?
A. IPS
B. OLED
C. TN
D. VA
Answer: (SHOW ANSWER)
OLED (Organic Light-Emitting Diode) technology can turn off individual pixels completely, producing "true black" and resulting in the highest contrast ratios compared to other display types.

NEW QUESTION: 209
An end user is able to send emails but not receive them. Which of the following settings should a technician check first on the user's laptop to troubleshoot the issue?
A. DNS
B. SMTP
C. IMAP
D. DMARC
Answer: (SHOW ANSWER)
Receiving emails relies on incoming mail protocols such as IMAP. Verifying the IMAP settings ensures the client can properly connect to the mail server to retrieve messages.

NEW QUESTION: 210
Which of the following describes the function of an injector?
A. To provide only data connectivity
B. To supply power across a cable
C. To improve wireless performance
D. To extend a network connection
Answer: (SHOW ANSWER)
A PoE injector is used to add power to an Ethernet cable, enabling the cable to deliver both power and data. This is crucial when connecting to PoE-enabled devices like IP cameras or wireless access points that are far from power outlets.

NEW QUESTION: 211
Which of the following cable types must be used when running copper network cable through a suspended ceiling that is used for air ventilation?
A. Plenum
B. Multimode
C. Coaxial
D. Twisted pair
Answer: (SHOW ANSWER)
Plenum-rated cable is required in air-handling spaces such as suspended ceilings used for ventilation because it has fire-resistant insulation that emits minimal toxic smoke if burned.

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NEW QUESTION: 212
A help desk technician is tasked with moving a user's computer to a makeshift office for renovations. Upon moving the computer, the technician notices the network card will not utilize anything beyond 10Mbps half-duplex. Which of the following is the most likely issue?
A. The computer is connected with DSL.
B. The computer is connected to an unmanaged switch.
C. The computer is configured for NIC teaming.
D. The computer is connected to a hub.
Answer: (SHOW ANSWER)
Hubs operate in half-duplex mode and are limited to low speeds like 10Mbps, making them the most likely cause for the network card's performance issue.

NEW QUESTION: 213
Which of the following will most likely be used in a testing environment to execute unauthorized or experimental code without affecting production systems?
A. Virtual machines
B. Hybrid cloud
C. Load balancers
D. Application gateways
Answer: (SHOW ANSWER)
Virtual machines (VMs) are widely used in testing and development environments to provide isolated, contained instances that mimic production systems. This isolation ensures that any unauthorized, experimental, or potentially harmful code executed within the VM does not affect the host operating system or the production network. The VM acts as a "sandbox," allowing for safe testing and analysis.

NEW QUESTION: 214
A user reported performance issues on a computer after a recent OS update A technician is confident that rolling back the system will resolve the issue. Which of the following steps should the technician take next?
A. Document the findings.
B. Investigate any recent infrastructure changes.
C. Initiate the system restore
D. Verify full system functionality.
Answer: C (LEAVE A REPLY)
If the technician is confident that rolling back the system to a previous restore point will resolve the issue, the next logical step is to initiate the System Restore process. System Restore allows the system to revert to a state before the OS update, which can eliminate the performance issues caused by the update.

NEW QUESTION: 215
A salesperson is unable to use a personal device to access emails and calendar features at a client site but was able to use the device while at the office. Which of the following policies has been enforced on the salesperson's mobile device?
A. MOW

B. MAN
C. MFA
D. MAM
Answer: (SHOW ANSWER)
Mobile Application Management (MAM) enforces policies restricting access to apps and services based on location, ensuring security at external sites.

NEW QUESTION: 216
Which of the following uses a small and portable private network to allow multiple wireless devices to share an internet connection?
A. Bluetooth
B. Hotspot
C. Tethering
D. NFC
Answer: (SHOW ANSWER)
Tethering allows a device (such as a smartphone) to share its mobile data connection with other devices through Wi-Fi, Bluetooth, or USB, creating a small private network for internet access.

NEW QUESTION: 217
Which of the following cloud models allows customers to connect to company resources from their laptops with the least amount of infrastructure?
A. PaaS
B. IaaS
C. SaaS
D. FaaS
Answer: (SHOW ANSWER)
SaaS (Software as a Service) is a cloud model that allows users to access applications over the Internet without managing the infrastructure or platform. Users can log in via a browser or app on any device, such as a laptop, with minimal configuration required.

NEW QUESTION: 218
A technician replaces a laptop's failed motherboard. During validation testing, the wireless is slow and shows a weak signal. Which of the following should the technician do first to verify the source of the issue?
A. Contact the manufacturer
B. Reseat antenna connections
C. Restart the access point
D. Install a new wireless adapter
Answer: (SHOW ANSWER)
Laptop wireless antennas are typically routed through the chassis and connected directly to the motherboard. After a motherboard replacement, loose or improperly connected antenna leads commonly cause weak signal strength and slow wireless performance, so reseating the antenna connections is the first step to verify the issue.

NEW QUESTION: 219
An IT specialist is setting up a new shared network printer. The printer will receive a pre-allocated IP address via DHCP. Attempting to connect to the printer's web interface produces a Page not found message. The specialist runs diagnostics and finds that the IP is different than expected.
Which of the following should the specialist check next?
A. The MAC address used in the reservation

B. The printer driver on the print server
C. The subnet mask that the printer is using
D. The default gateway in the address pool
Answer: A (LEAVE A REPLY)
A DHCP reservation assigns a specific IP address based on the device's MAC address, so an incorrect MAC address in the reservation would cause the printer to receive a different IP than expected.

NEW QUESTION: 220
Which of the following should a technician check when the display of a computer is flickering?
A. LCD type
B. Refresh rate
C. Screen resolution
D. Pixel density
Answer: (SHOW ANSWER)
Display flickering is commonly caused by an incorrect or unsupported refresh rate. Checking and adjusting the refresh rate ensures the display updates at a stable frequency supported by both the monitor and graphics adapter.

NEW QUESTION: 221
Which of the following virtualization technologies is best suited for running microservices?
A. Containers
B. VDI
C. Type 2 hypervisors
D. Type 1 hypervisors
Answer: (SHOW ANSWER)
Containers provide lightweight virtualization, ideal for deploying microservices because they are isolated, portable, and require fewer resources than traditional VMs.

NEW QUESTION: 222
A company deploys its infrastructure in self-operated data centers. The company recently migrated some of its applications to a public cloud. Which of the following most accurately describes the cloud model the company is following?
A. Public
B. Hybrid
C. Community
D. Private
Answer: (SHOW ANSWER)
A hybrid cloud combines private infrastructure (on-premises, self-operated data centers) with public cloud services, providing flexibility and scalability.

NEW QUESTION: 223
Which of the following is a characteristic of Type 2 hypervisors?
A. Bare-metal installation
B. Need for an underlying OS
C. Local management only

D. Specific hardware requirements
Answer: (SHOW ANSWER)
Type 2 hypervisors run as applications atop a host operating system, relying on that OS for hardware drivers and resource management rather than interfacing directly with the hardware.

NEW QUESTION: 224
Which of the following is used to assign an IP address to a network PC?
A. VLAN
B. DNS
C. DHCP
D. TCP
Answer: (SHOW ANSWER)
DHCP automatically assigns IP addresses and network configuration settings to devices on a network, enabling them to communicate without manual configuration.

NEW QUESTION: 225
A technician is troubleshooting a computer that fails to start and makes frequent, unexpected sounds. The monitor remains blank, and no OS loads. Which of the following should the technician review first to diagnose this issue?
A. Output voltages of power supplies
B. Availability of CPU thermal paste
C. OS boot configuration
D. Proper installation of RAM modules
Answer: (SHOW ANSWER)
Failure to start with no display and unusual sounds often indicates a POST issue. Improperly installed or faulty RAM commonly prevents the system from completing POST and can generate beep codes or abnormal sounds, making it the first component to check.

NEW QUESTION: 226
Which of the following is used to implement PoE?
A. Modem
B. Range extender
C. Media converter
D. Injector
Answer: (SHOW ANSWER)
A PoE injector adds electrical power to an Ethernet cable, enabling devices like access points or IP cameras to receive both power and data through a single cable.

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NEW QUESTION: 227

A user receives a warning message on their tablet that states, "You are locked out due to unlawful activity." The user was shopping for clothes online. Which of the following should a technician try first?

A. Force close all running applications on the device

B. Replace the tablet with a newer device

C. Reset the device to default settings

D. Restart the device

Answer: (SHOW ANSWER)

Warning messages like this can be caused by malicious pop-ups or temporary software glitches.

Restarting the device is the safest and quickest first step to clear temporary processes, refresh the system, and remove transient malware or pop-up overlays.

This approach addresses the issue without risking data loss or unnecessary downtime.

NEW QUESTION: 228

A technician needs to confirm that desktop PCs can be deployed to a global, remote workforce.

Which of the following specifications should the technician validate?

A. Input voltage

B. BIOS language support

C. Supply chain security

D. Power efficiency

Answer: (SHOW ANSWER)

Input voltage must be validated to ensure desktop PCs can operate in different regions with varying power standards (e.g., 110V in North America vs. 220V in Europe). Failure to verify input voltage compatibility can lead to hardware damage or operational issues.

NEW QUESTION: 229

Which of the following best represents the purpose of NFC?

A. Wired connections between several devices

B. Short-distance wireless connections between two devices

C. Wireless connections between multiple devices at once

D. Direct connection of two computers for file sharing

Answer: (SHOW ANSWER)

NFC (Near-Field Communication) is a subset of RFID technology designed for very short-range wireless communication, typically within a few centimeters. It is primarily used for contactless transactions, like mobile payments, and can also support peer-to-peer data exchanges. NFC operates at 13.56 MHz and enables devices to communicate when placed near each other.

NEW QUESTION: 230

A technician is having issues replacing a laptop's wireless card because the cover seems to be stuck.

Which of the following should the technician do next to troubleshoot this issued

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A. Check the product manual for the procedure

B. Use a pry tool to force the cover open

C. Insert the wireless card into the M.2 slot

D. Try to move the cover by sliding it in all directions.

Answer: A (LEAVE A REPLY)

When hardware is not easily accessible, always consult the product manual for proper disassembly procedures. Forcing the cover can damage the laptop or void the warranty. Product manuals often provide step-by-step instructions for safely accessing internal components.

NEW QUESTION: 231
Which of the following wireless networking technologies primarily operates in the 5GHz frequency band?
A. Bluetooth
B. 802.11ac
C. NFC
D. RFID
Answer: (SHOW ANSWER)
802.11ac is a Wi-Fi standard that primarily operates in the 5GHz frequency band, providing higher throughput, reduced interference, and better performance compared to older 2.4GHz- based standards.

NEW QUESTION: 232
Which of the following video cables uses an analog signal?
A. DVI
B. VGA
C. USB-C
D. HDMI
Answer: (SHOW ANSWER)
VGA (Video Graphics Array) is an analog video interface. It transmits video signals as continuous electrical waves, which means the signal can degrade over distance or due to interference. VGA uses a 15-pin connector and is considered legacy hardware in modern systems, but it is still important for CompTIA A+ because you may encounter it in older equipment.

NEW QUESTION: 233
A customer's laptop is no longer charging when plugged in to the docking station. A technician observes that none of the devices plugged in to the dock appear to be functioning. The technician verifies that the dock has power, the laptop ports are not damaged, and the BIOS updates are current, but the issue persists. Which of the following should the technician do next?
A. Switch the power supply.
B. Replace the dock with a new one.
C. Reinstall the OS on the laptop.
D. Roll back the BIOS updates.
Answer: (SHOW ANSWER)
Since the dock has power but none of its connected devices function, and other potential causes have been ruled out, the docking station itself is likely faulty. Replacing the dock resolves the hardware failure.

NEW QUESTION: 234
A technician is building a custom CAD workstation with a high-end graphics card. The customer requests that the system has the highest possible stability. Which of the following is the best choice for the power supply?
A. UPS
B. Redundant
C. Surge protector
D. Modular

Answer: (SHOW ANSWER)
A redundant power supply provides failover capability by using multiple power units, ensuring continuous operation and maximum stability if one power supply fails.

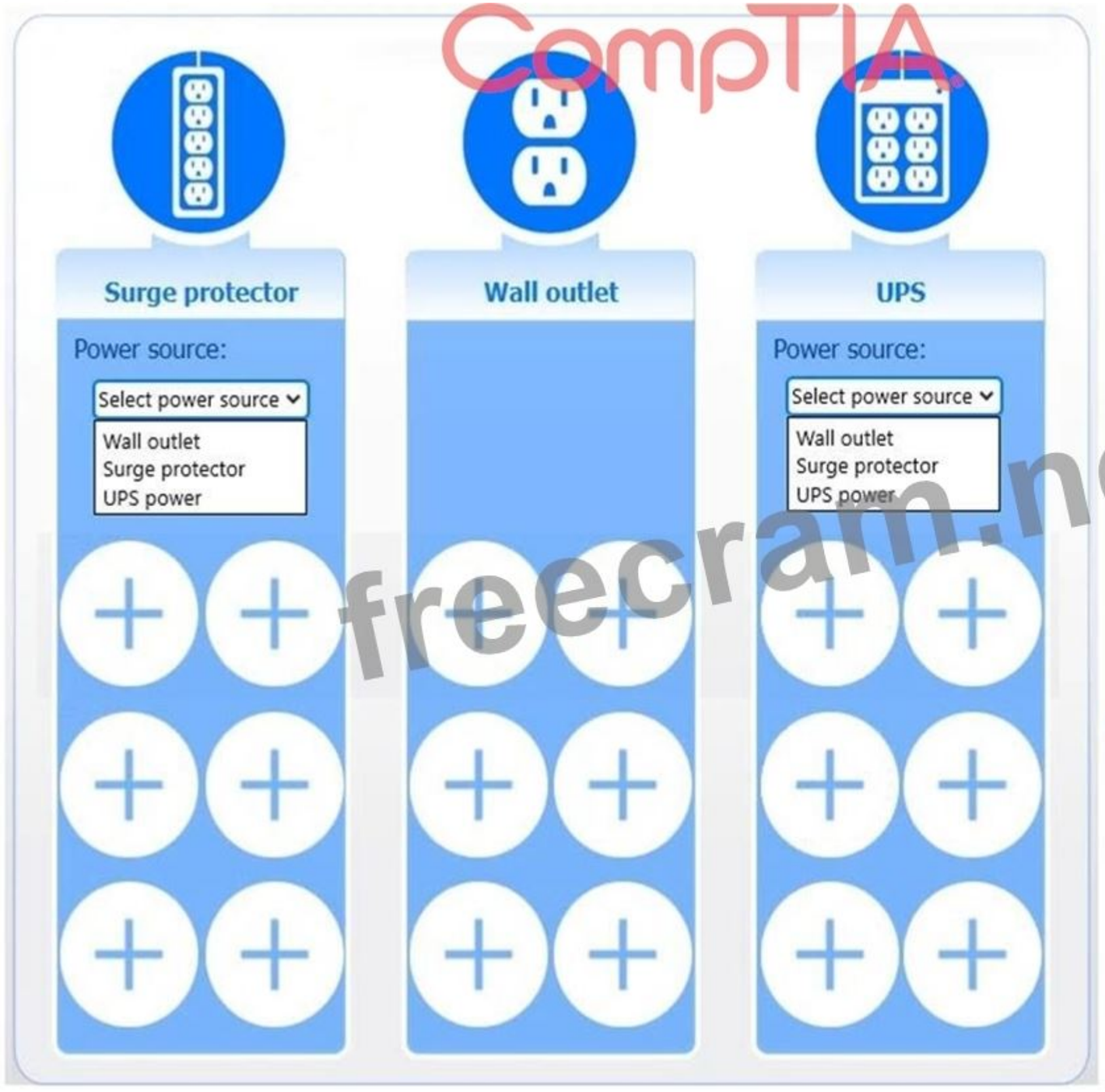
NEW QUESTION: 235
Which of the following allows an organization to provide remote desktop resources without providing physical workstations to its users?
A. RMM
B. SaaS
C. VDI
D. Containers
Answer: (SHOW ANSWER)
VDI (Virtual Desktop Infrastructure) is a technology that hosts desktop operating systems and applications on centralized servers in a data center or cloud environment, allowing users to access them remotely from any device with an internet connection. The user's device acts as a
"thin client," providing only the display and input interface, while all data and applications remain securely on the organization's servers. This meets the requirement of not providing physical workstations to users and not installing applications or data locally on user devices.

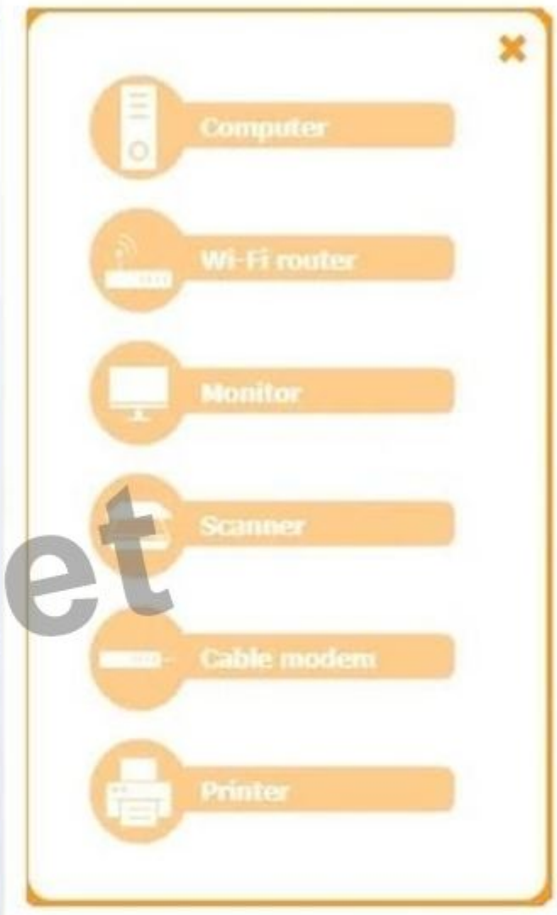
NEW QUESTION: 236
Which of the following types of RAM is typically used in servers?
A. SODIMM
B. Rambus
C. DDR3
D. ECC
Answer: (SHOW ANSWER)
ECC (Error-Correcting Code) RAM is commonly used in servers to provide error detection and correction, improving reliability in critical systems. It is designed to detect and correct single-bit errors, ensuring data integrity in environments where stability is paramount.

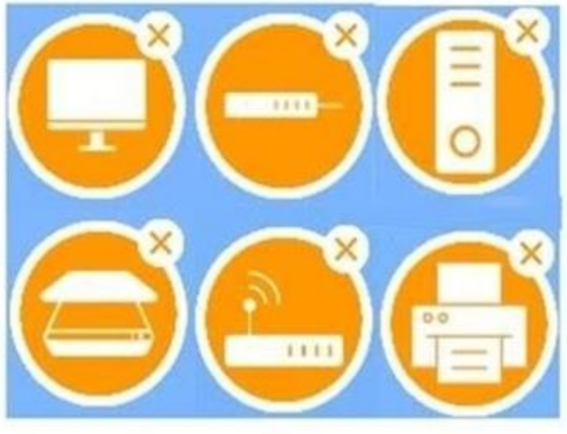
NEW QUESTION: 237
Which of the following tools would most likely be used to identify a cable's location in the network closet?
A. Loopback plug
B. Crimper
C. Toner probe
D. Network tap
Answer: (SHOW ANSWER)
A toner probe is used to trace and identify cables by sending a signal through the wire and detecting it at the other end, allowing technicians to locate specific cables in a network closet.

NEW QUESTION: 238
SIMULATION 10
A customer recently experienced a power outage at a SOHO. The customer does not think the components are connected properly. A print job continued running for several minutes after the power failed, but the customer was not able to interact with the computer.
Once the UPS stopped beeping, all functioning devices also turned off.
In case of a future power failure, the customer wants to have the most time available to save cloud documents and shut down the computer without losing any data.
INSTRUCTIONS

Based on the customer's requirements, connect the customer's devices to the proper outlets.
Then, use the drop-down menus to select the power source for the surge protector and UPS.
This may require reselecting dropdowns or removing devices from their initial location.
Click on the + to add a device, and click the X to remove a device. Each device may only be used once.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.







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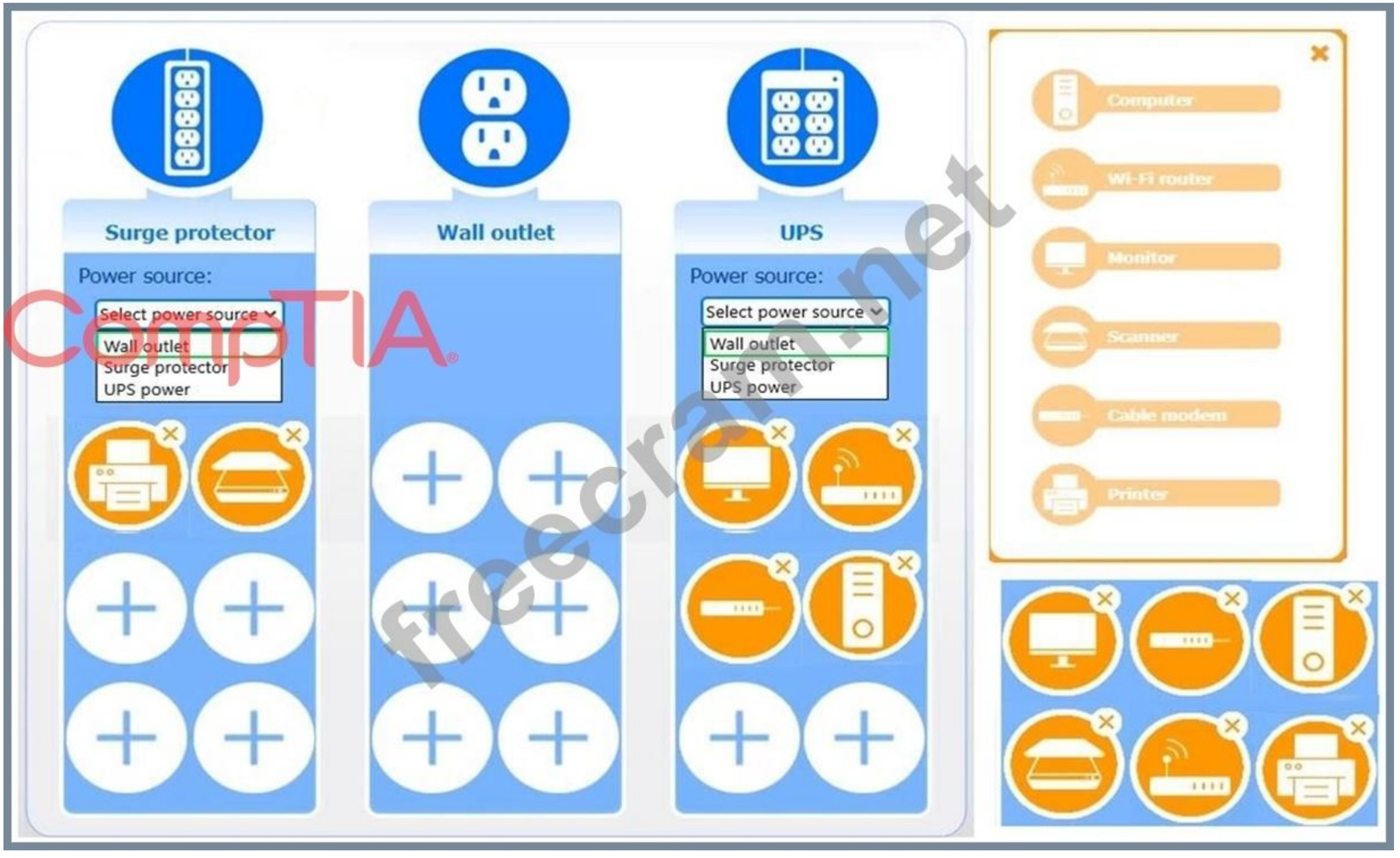
Answer:



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NEW QUESTION: 239
An end user reports that their laptop shuts down when they undock it. Even when using a new charging cable, the issue persists. Which of the following should the technician do next?
A. Flash the BIOS
B. Update the drivers
C. Try a different charger
D. Replace the battery
Answer: (SHOW ANSWER)
If a laptop shuts down when undocked and remains powered off even with a new charging cable, the internal battery is likely faulty and cannot hold a charge. Replacing the battery is the next troubleshooting step.

NEW QUESTION: 240

An organization uses a vendor-hosted database server. Which of the following best describes this solution?

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A. Hybrid cloud
B. PaaS
C. IaaS
D. SaaS
Answer: (SHOW ANSWER)
A vendor-hosted database server is a platform service where the provider manages the underlying infrastructure and database engine, allowing the organization to focus on using the database without managing servers or operating systems.

NEW QUESTION: 241
Which of the following DNS record types is used to identify an email server?
A. AAAA
B. CNAME
C. TXT
D. MX
Answer: (SHOW ANSWER)
An MX (Mail Exchanger) record in DNS specifies the mail server responsible for accepting email messages on behalf of a domain.

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NEW QUESTION: 242
A consultant is assessing the wireless configurations for a small office. The existing equipment uses WEP encryption and operates on the default channel. The office is in a crowded urban area with many nearby networks. Which of the following is the best way to improve the wireless network performance?
A. Replacing the access point
B. Disabling SSID broadcasting
C. Enabling MAC address filtering
D. Updating the firmware
Answer: A (LEAVE A REPLY)
WEP is an obsolete security standard and default-channel operation in a crowded urban environment leads to significant interference and poor performance. Replacing the access point allows the office to upgrade to modern wireless standards with stronger encryption and better channel management, which most effectively improves overall wireless performance.

NEW QUESTION: 243
A projector has been shutting down after 30 minutes of use, and it has a strange smell The technician confirms the power source is not the cause of the issue. Which of the following steps should the technician take next to resolve this issue?

A. Replace the bulb
B. Check the projector configuration.
C. Clean the filter
D. Adjust the gamma settings.
Answer: (SHOW ANSWER)
Projectors have air filters that prevent dust from entering the internal components. A clogged filter can cause the projector to overheat, resulting in shutdowns and even strange smells due to overheating components. Cleaning the filter is a standard troubleshooting step when projectors exhibit overheating symptoms.

NEW QUESTION: 244
An IP address is automatically assigned to a single workstation in an office, but the technician confirms the IP address is not in the lease pool. This workstation is having issues accessing the internet and internal file shares. Which of the following address types has been automatically assigned?
A. APIPA
B. Static
C. DHCP
D. Public IP
Answer: (SHOW ANSWER)
When a workstation cannot obtain an address from a DHCP server, it automatically assigns itself an APIPA address in the 169.254.0.0/16 range, which allows limited local communication but prevents access to the internet and most internal network resources.

NEW QUESTION: 245
An end user is printing, but the image is being cut off because the paper is too small. The user did put the correct type of paper in the printer. Which of the following should the user change first?
A. The image size
B. The quality of the image
C. The tray settings
D. The file type
Answer: (SHOW ANSWER)
Even though the user loaded the physical paper correctly, the printer itself doesn't automatically know what size paper is in that tray unless it is configured.
If the printer's tray settings (or paper size settings in the print dialogue) are still set to a different paper size than what is actually in the tray, the printer will format and print the image based on those incorrect software settings. This mismatch causes the image to get cut off.

NEW QUESTION: 246
Which of the following is a benefit of application virtualization?
A. Better compatibility
B. Reduced network latency
C. Secure telnet access
D. Metered utilization
Answer: (SHOW ANSWER)
Application virtualization allows applications to run in an isolated environment on a client device without being installed directly on the operating system.
This improves compatibility, as applications can operate regardless of OS differences, avoiding conflicts with other installed applications or system configurations.

NEW QUESTION: 247

Which of the following cloud-computing concepts describes an environment in which various internal VM servers for a specific organization are stored within both a physical server and a cloud environment?

A. Private

B. Hybrid

C. Community

D. Public

Answer: (SHOW ANSWER)

A hybrid cloud is a cloud computing environment that combines on-premises, private cloud, and public cloud resources. This configuration allows organizations to deploy workloads and data in a way that optimizes performance, security, and cost management.

Key Characteristics of a Hybrid Cloud:

Combines private cloud (on-premises or dedicated servers) and public cloud (resources accessed over the internet).

Allows for the movement of data and applications between private and public clouds.

Supports scenarios where certain data must remain on-premises for security or compliance reasons, while other workloads utilize the scalability of public cloud resources.

NEW QUESTION: 248

Which of the following virtualization concepts is suitable for a development team that requires a bare minimum platform to run web applications with the capability to dispose and redeploy as needed?

A. Containers

B. IaaS

C. SaaS

D. Desktop virtualization

Answer: (SHOW ANSWER)

Containers provide lightweight, portable environments that package applications and their dependencies, allowing them to run consistently across multiple environments.

Containers are ideal for development teams because they require minimal underlying infrastructure, can be quickly deployed or destroyed, and isolate applications from the host system, making it easier to manage multiple applications simultaneously.

NEW QUESTION: 249

A user has two SSDs of the same size in their PC. The user wants to configure both SSDs to have a copy of all data so there will be no data loss if one drive fails. Which of the following is this an example of?

A. RAID 0

B. RAID 1

C. RAID 5

D. RAID 10

Answer: (SHOW ANSWER)

RAID 1 uses disk mirroring, where identical data is written to both drives, ensuring that if one drive fails, the other retains a complete copy of the data.

NEW QUESTION: 250

A small office is using an internal subnet that includes 192.168.1.0 through 192.168.1.255. Which of the following is the proper subnet mask?

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A. 0.0.0.0

B. 255.0.0.0

C. 255.255.255.0
D. 255.255.255.128
Answer: (SHOW ANSWER)
The range 192.168.1.0-192.168.1.255 corresponds to a /24 network, which uses the subnet mask 255.255.255.0.

NEW QUESTION: 251
A marketing developer creates a new DNS record called promotions.comptia.org so it references the same IP address as
A. MX
B. CNAME
C. A
D. TXT
Answer: B (LEAVE A REPLY)
A CNAME record creates an alias that points one domain name to another domain name, allowing promotions.comptia.org to resolve to the same IP address as www.comptia.org indirectly.

NEW QUESTION: 252
A customer reports that internet browsing on their smartphone is fast at the beginning of the month but significantly slows down toward the end of the month. A technician examines the phone and finds multiple free cloud backup services running, with several gigabytes of personal data spread across each. Data availability is important to the customer. Which of the following is the best way to resolve the customer's issue?
A. Disabling all cloud backup services except one
B. Installing an additional SD card for photos and videos
C. Expanding the cache storage to consolidate data
D. Configuring data synchronization only over Wi-Fi connections
Answer: (SHOW ANSWER)
By restricting the cloud backups to run only when the device is on Wi-Fi, you prevent large data transfers from eating into the user's cellular allowance later in the month - keeping browsing performance consistent without disabling any backup service.

NEW QUESTION: 253
Which of the following types of RAM is best suited to handle errors within the module itself?
A. DIMM
B. Dual channel
C. ECC
D. SODIMM
Answer: (SHOW ANSWER)
Error-Correcting Code (ECC) RAM includes additional parity bits and logic to detect and correct single-bit errors on the fly, ensuring data integrity within the memory module.

NEW QUESTION: 254
A small business is setting up a new network for its office. The business needs to select the appropriate device to help isolate traffic between staff and guest devices. Which of the following best meets this need?
A. Access point
B. Network bridge

C. Managed switch
D. Load balancer
Answer: (SHOW ANSWER)
A managed switch allows network segmentation through VLANs (Virtual Local Area Networks), enabling the business to isolate traffic between staff and guest devices while maintaining centralized control and security.

NEW QUESTION: 255
A local bank is designing its new infrastructure blueprint. Which of the following RAID types offers double parity?
A. RAID 0
B. RAID 1
C. RAID 5
D. RAID 6
Answer: (SHOW ANSWER)
RAID 6 uses double parity, allowing the array to tolerate the failure of up to two disks simultaneously while maintaining data integrity.

NEW QUESTION: 256
Which of the following is used to verify that an emailer is allowed and designated to send emails from a particular IP address?
A. CNAME
B. SPF
C. DKIM
D. DMARC
Answer: (SHOW ANSWER)
Sender Policy Framework is used to verify that an email server's IP address is authorized to send email on behalf of a specific domain, helping prevent email spoofing.

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NEW QUESTION: 257
An administrator selects a new platform that provides the following benefits:
- Shares a host OS
- Shares kernel resources
- Rapid start and deployment
- Limited isolation
Which of the following virtualization options did the administrator select?
A. Type 1 hypervisor
B. Containers
C. Virtual desktop
D. Virtual machine

Answer: (SHOW ANSWER)
The virtualization platform described matches the characteristics of containers. Containers are lightweight virtualization solutions that share the host operating system and kernel, rather than running separate guest operating systems. This design allows containers to start almost instantly and be deployed rapidly, making them highly efficient and scalable.
Because containers share kernel resources, they use significantly fewer system resources compared to traditional virtual machines. However, this also results in limited isolation, since applications are not fully separated at the OS level. This tradeoff is a defining characteristic of container-based virtualization.

NEW QUESTION: 258
A technician is installing a new high-end graphics card that uses a 12VHPWR connector. Which of the following is the maximum wattage supported by this power connector?
A. 400W
B. MOW
C. 600W
D. 700W
Answer: (SHOW ANSWER)
The 12VHPWR connector can supply up to 600 watts of power, designed for high-end graphics cards.

NEW QUESTION: 259
Which of the following cables should be installed if nearby electromagnetic interference is a possibility?
A. STP
B. UTP
C. Thunderbolt
D. USB
Answer: (SHOW ANSWER)
Shielded twisted pair cable includes additional shielding around the conductors to protect against electromagnetic interference, making it suitable for environments where nearby electrical equipment could disrupt network signals.

NEW QUESTION: 260
A technician is setting up a new SOHO wireless router. According to security best practices, which of the following should the technician do first?
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A. Enable encryption.
B. Assign a static IP.
C. Change the default password.
D. Reset the router.
Answer: C (LEAVE A REPLY)
The first security step after deploying a new router is to change the default administrative password. Default credentials are well known and pose a security risk if left unchanged.

NEW QUESTION: 261
A company is separating its accounting department's network from its customer service department's network. Which of the following will accomplish this task?
A. VPN
B. DNS
C. VLAN
D. DHCP

Answer: C (LEAVE A REPLY)
VLANs (Virtual Local Area Networks) are used to segment a single physical network switch into multiple logical, isolated networks. This allows an administrator to separate traffic from different departments (like accounting and customer service) even if the computers are connected to the same physical networking equipment, without needing to install separate physical cabling and devices. This improves security by ensuring sensitive accounting data is segregated from other network traffic.

NEW QUESTION: 262
A data center technician notices that one of the servers in a RAID 5 configuration is experiencing slow performance. A message in the server logs indicates a degraded RAID array. Which of the following actions should the technician take to address the degraded RAID array?
A. Replace the failed drive with a new one.
B. Reseat all existing drives to improve connection.
C. Perform a disk defragmentation on all drives.
D. Change the RAID configuration to RAID 6.
Answer: (SHOW ANSWER)
A degraded RAID 5 array indicates that one drive has failed, and replacing the failed drive allows the array to rebuild redundancy and restore normal performance.

NEW QUESTION: 263
SIMULATION 5
A technician is diagnosing several device issues reported by employees.
INSTRUCTIONS
Click on each device to review the issue. Then select the appropriate issue and solution from the drop-down menu. Each option may be used more than once.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.







Battery performance
Burn In
Cannot locate boot partition
Fuzzy image
Incorrect contrast settings
Keystoning
Overheating
Swollen battery
Wrong Input selected

Select a solution
Adjust the refresh rate settings
Adjust the display angle settings
Clean the lens
Disable overclocking in the CPU
Enter the BIOS and configure changes
A replacement is required
Switch the display Input
Upgrade the hard drive









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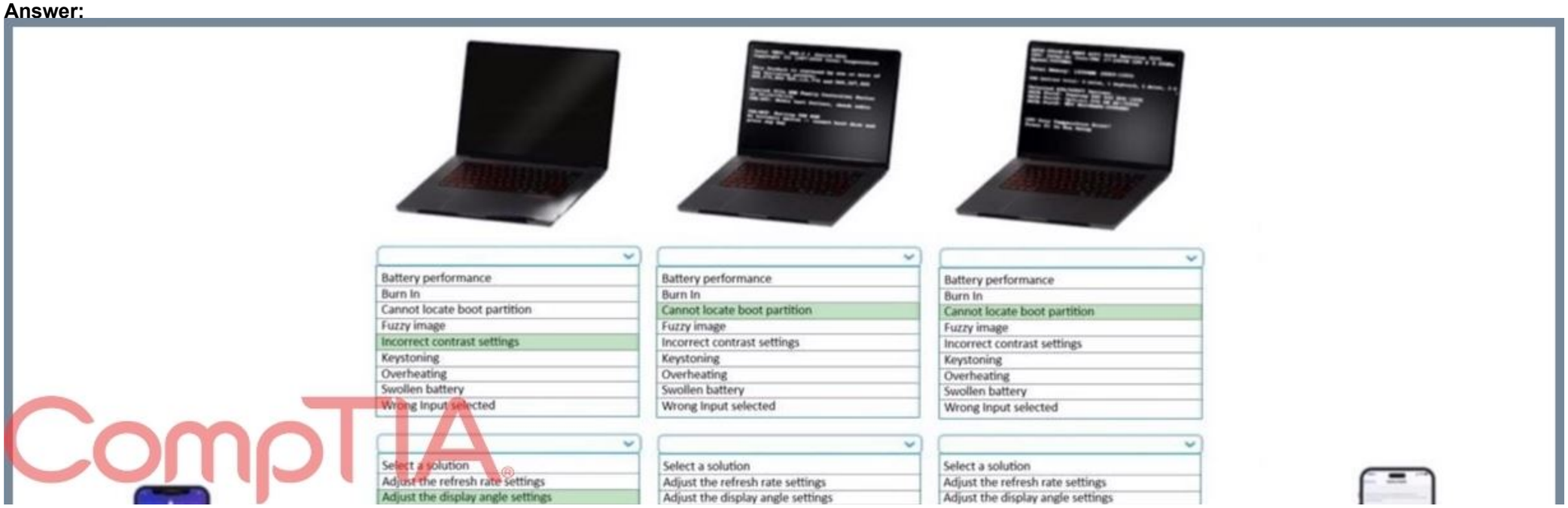
Keystoning
Overheating
Swollen battery
Wrong Input selected

Select a solution
Adjust the refresh rate settings
Adjust the display angle settings
Clean the lens
Disable overclocking in the CPU
Enter the BIOS and configure changes
A replacement is required
Switch the display Input
Upgrade the hard drive

Answer:





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Fuzzy image
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NEW QUESTION: 264

A company updates its office with a new multifunction printer. Users report issues when they try to use scan-to-email functionality. The technician must ensure this feature is properly enabled.

Which of the following should the technician do to resolve this issue?
A. Adjust the SMTP server configurations for email.
B. Check the printer's IP address configuration.
C. Install the printer's driver software on all computers.
D. Configure user authentication settings for email access.
Answer: A (LEAVE A REPLY)
Scan-to-email functionality on a multifunction printer relies on proper configuration of an SMTP (Simple Mail Transfer Protocol) server. The printer must know how to send outgoing email, which requires settings such as:
SMTP server address
Port number (commonly 25, 465, or 587)
Authentication credentials (username/password)
Encryption method (SSL/TLS if required)
If scan-to-email is not working, the most common cause is incorrect or missing SMTP configuration. Without this setup, the printer cannot send scanned documents via email.

NEW QUESTION: 265
A technician sets up secure print and configures an NFC device that will authenticate users for access. Which of the following will the NFC device most likely use to authenticate?
A. Badging
B. Password
C. Passcode
D. Biometrics
Answer: (SHOW ANSWER)
Badging refers to the use of NFC-enabled ID badges or cards that authenticate users when tapped against a reader for secure print or access control.

NEW QUESTION: 266
A systems administrator deploys BitLocker to all devices. However, one of the desktop PCs is not able to encrypt the boot drive. Which of the following should the administrator check?
A. TPM
B. CPU
C. RAM
D. HDD
Answer: (SHOW ANSWER)
BitLocker Drive Encryption in Windows requires a Trusted Platform Module (TPM)to encrypt the boot drive securely. The TPM is a dedicated microcontroller designed to secure hardware through integrated cryptographic keys. It validates system integrity during boot and securely stores the encryption keys. If BitLocker cannot find a TPM or it is disabled in BIOS/UEFI, drive encryption cannot proceed. BitLocker can function without TPM using a USB startup key, but this compromises some security and is not recommended for managed enterprise environments.

NEW QUESTION: 267
A user's laptop shuts down unexpectedly while connected to a virtual meeting. The user turns on the device several times, but it shuts down again after connecting to the meeting for a few minutes. Which of the following should a technician do first to troubleshoot this issue?
A. Run the application in safe mode.
B. Check the BIOS for the CPU temperature.
C. Connect to the meeting with a different application.
D. Verify that the battery is completely charged.
Answer: (SHOW ANSWER)

Unexpected system shutdowns that occur after a few minutes of activity--especially during resource-intensive tasks such as virtual meetings--are a strong indicator of overheating.
According to CompTIA Core 1 (220-1201) laptop and hardware troubleshooting objectives, thermal issues commonly cause systems to power off automatically to prevent hardware damage.
Virtual meeting applications place sustained load on the CPU and GPU, increasing heat output. If the cooling system is malfunctioning (dust buildup, failed fan, dried thermal paste), the CPU temperature can rise rapidly and trigger a thermal shutdown. Checking the CPU temperature in the BIOS or UEFI is an appropriate first step to confirm whether overheating is occurring.
Running the application in safe mode or switching applications does not address the root hardware issue. Verifying the battery charge is unlikely to resolve repeated shutdowns that occur only after several minutes of operation.
CompTIA emphasizes identifying environmental and thermal causes early in the troubleshooting process, especially when symptoms are repeatable and load-dependent.

NEW QUESTION: 268
A SOHO user's network printer has been without power for the last few days. After turning the printer back on, the user cannot connect to it. Which of the following is the most probable cause?
A. The printer has a static IP address.
B. The printer has a dynamic IP address.
C. The printer has an APIPA.
D. The printer has a public IP address.
Answer: (SHOW ANSWER)
If the printer uses a dynamic IP address and has been without power, the DHCP lease may have expired, and the printer may have been assigned a new IP address. Devices attempting to connect using the old IP address will fail.

NEW QUESTION: 269
Which of the following describes the difference between routers and switches?
A. Routers are programmable; switches are not programmable.
B. Switches connect devices within a network; routers connect networks.
C. Switches are programmable; routers are not programmable.
D. Routers connect devices within a network; switches connect networks.
Answer: (SHOW ANSWER)
Switches operate at the Data Link layer (Layer 2) and sometimes Layer 3, connecting multiple devices within the same local area network (LAN). They manage data traffic between devices by using MAC addresses to forward frames only to the intended recipient.
Routers operate at the Network layer (Layer 3) and connect different networks together, such as connecting a LAN to the internet. They use IP addresses to determine the best path for forwarding packets between networks.

NEW QUESTION: 270
A technician needs to change the VLAN configuration for all the desktops in the sales office.
Which of the following devices should the technician connect to in order to complete the task?
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A. Modem
B. Hub
C. PoE injector
D. Managed switch
Answer: (SHOW ANSWER)
VLAN configurations are controlled on a managed switch, which allows administrators to assign ports to specific VLANs. By accessing the managed switch, the technician can change the VLAN settings for all desktops in the sales office.

NEW QUESTION: 271

A technician is setting up a scan-to-SMB function on a multifunction printer. Which of the following connection types should the technician configure?
A. Email server
B. SFTP connection
C. Network share
D. Print services
Answer: (SHOW ANSWER)
The scan-to-SMB feature allows the printer to send scanned documents to a shared folder (SMB share) on the network. Setting up a network share enables the device to securely and conveniently save files for user access.

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NEW QUESTION: 272
A user has issues selecting objects on their tablet. The user tries to select an object, and the object that opens is to the right of the object that the user selects. Which of the following should a technician do to troubleshoot the issue?
A. Change the stylus.
B. Calibrate the digitizer.
C. Check for malware.
D. Clean the screen.
Answer: (SHOW ANSWER)
When a tablet registers touch input in the wrong location, the digitizer is misaligned. Calibrating the digitizer realigns touch input with on-screen coordinates so selections register accurately.

NEW QUESTION: 273
A technician is configuring an organization's managed switch to prevent other users on the same switch from accessing the accounting department. Which of the following should the technician configure to accomplish this task?
A. Virtual LAN
B. DHCP reservations
C. Content filtering
D. Port security
Answer: (SHOW ANSWER)
VLANs are used to segment a physical network into multiple logical networks. By assigning the accounting department to a separate VLAN, users on other VLANs cannot access its network traffic without routing, thereby isolating sensitive departments while using the same physical switch.
VLANs improve security, reduce broadcast traffic, and allow network administrators to enforce access controls at the layer 2 level.

NEW QUESTION: 274
Which of the following internet connection types is most likely to be used in remote locations?
A. Fiber
B. Cable

C. Satellite
D. DSL
E. Cellular
Answer: (SHOW ANSWER)
Satellite internet is most commonly used in remote areas where wired infrastructure (e.g., fiber or cable) is unavailable. It relies on satellite communication, making it suitable for isolated locations.

NEW QUESTION: 275
A user's workstation occasionally turns off and smells burnt. The workstation is located in a manufacturing area where users are required to wear respirators.
Which of the following will most likely repair the workstation?
A. Inspecting and repairing the swollen motherboard capacitors
B. Replacing the intake air filter
C. Resetting the BIOS configuration to default
D. Switching the power outlets
Answer: (SHOW ANSWER)
In a manufacturing environment where respirators are required, airborne dust and contaminants are common. A clogged or dirty intake air filter can restrict airflow, causing overheating, shutdowns, and a burnt smell. Replacing the air filter restores proper cooling and prevents further overheating.

NEW QUESTION: 276
Which of the following systems most likely contains ECC memory?
A. A high-end gaming console
B. A file server
C. A smartphone
D. A laptop
Answer: (SHOW ANSWER)
ECC (Error-Correcting Code) memory detects and corrects data errors, ensuring reliability and data integrity. It is typically used in servers and workstations where system stability and data accuracy are critical.

NEW QUESTION: 277
A customer contacts the help desk to report they can access the corporate fileshare but cannot browse the internet. The technician runs ipconfigand receives the following output:

```
Windows IP Configuration

Ethernet adapter Ethernet:
Connection-specific DNS Suffix . :
IPv4 Address. . . . . . . . . . . : 192.168.1.101
Subnet Mask . . . . . . . . . . . : 255.255.255.0
Default Gateway . . . . . . . . . :
```

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Which of the following is most likely causing the issue?
A. Corrupt NIC drivers
B. Conflicting IPv4 address
C. Incorrect next hop information
D. Unplugged Ethernet cable
Answer: (SHOW ANSWER)

The system has a valid IPv4 address and subnet mask and can access internal resources, which confirms local network connectivity is working. The absence of a default gateway indicates incorrect next hop information, preventing traffic from being routed to external networks such as the internet.

NEW QUESTION: 278
A user connects a company-issued laptop to a 4K TV but can only get 1080p resolution on the TV. The technician confirms that the laptop is capable of producing a 4K output. Which of the following is the most likely cause of the issue?
A. The TV firmware is out of date
B. The HDMI cable version is incorrect
C. The laptop firmware is not current
D. The CPU cannot keep up with the transcoding
Answer: (SHOW ANSWER)
An older HDMI cable version may not support 4K resolution. For 4K output, both the device and the cable must support HDMI 2.0 or higher.

NEW QUESTION: 279
A user experiences a random BSOD while using a computer, but the operating system recovers as expected. Which of the following symptoms would indicate the issue is related to RAM?
A. Wrong BIOS configurations
B. Continuous reboots
C. Distended capacitors
D. POST code beeps
Answer: (SHOW ANSWER)
During the Power-On Self-Test (POST), the BIOS performs checks on system hardware, including RAM. If the RAM is faulty, POST may produce a series of beep codes indicating memory issues. These beep codes are often the first sign of RAM-related problems, especially if the BSOD occurs randomly.

NEW QUESTION: 280
A technician is troubleshooting an MFP issue in which the printed copies have speckling. The technician verifies that the issue does not occur when a document is scanned, but speckling does appear when copied. After verifying that the print does not smear on the page after printing, which of the following should the technician do to fix the issue?
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A. Install a maintenance kit.
B. Change the toner cartridge.
C. Replace the print fuser.
D. Clean the transfer roller.
Answer: (SHOW ANSWER)
Since scanning alone produces a clean image and the toner does not smear after printing, the fuser and toner are functioning properly. Speckling during copies indicates debris or contamination in the transfer process, so cleaning the transfer roller removes excess toner particles and restores clean prints.

NEW QUESTION: 281
A user is experiencing multiple issues with an in-place upgrade of a laptop's operating system.
The built-in camera is unresponsive, and the user is unable to pair the device with any Bluetooth accessories. Which of the following ate most likely causing three issues? (Choose two.)
A. Incorrect configuration of the settings
B. OS and device version incompatibility
C. Disabled settings following the upgrade

D. Full storage
E. Outdated drivers
F. Corrupted registry entries
Answer: (SHOW ANSWER)
Outdated drivers: Device functionality issues after an OS upgrade are often caused by incompatible or outdated drivers.
Disabled settings: Some features may be disabled during the upgrade process, requiring re- enablement.

NEW QUESTION: 282
A technician is troubleshooting a recently installed printer that is leaving multiple lines and streaks on print jobs. Which of the following should the technician replace first?
A. Rollers
B. Drum
C. Toner
D. Fuser
Answer: (SHOW ANSWER)
Streaks and multiple lines on print jobs are commonly caused by an issue with the toner cartridge, such as a damaged or improperly installed cartridge. The technician should replace the toner first as it is the most likely and simplest component to check.

NEW QUESTION: 283
A user on the edge of a building reports slow Wi-Fi and intermittent drops. Which action will solve the issue?
A. Enable the 5GHz band
B. Run ipconfig /flushdns
C. Upgrade laptop to Wi-Fi 6 NIC
D. Install additional wireless APs around the location
Answer: (SHOW ANSWER)
The user is experiencing slow Wi-Fi and intermittent drops at the edge of a building, which indicates weak signal strength due to distance from the existing wireless access point (AP) or physical obstructions. The most effective solution is to improve the wireless coverage in that specific area by adding more APs.

NEW QUESTION: 284
A network operations analyst receives an automated alert regarding a server with an array. The analyst walks over to the server and sees a blinking orange light at the hard disk bay. The server is configured for RAID 1. Which of the following should the analyst do to resolve this issue?
A. Change the array to RAID 0.
B. Undo the array and create a new one.
C. Update RAID card firmware.
D. Replace the hard disk and rebuild the array.
Answer: (SHOW ANSWER)
A blinking orange light typically indicates a failed hard drive in the RAID array. In RAID 1 (mirroring), you can replace the failed drive and rebuild the array without data loss.

NEW QUESTION: 285
Which of the following tools will a technician most likely use to identify an unlabeled network connection?
A. Network tap
B. Loopback plug
C. Cable tester

D. Toner probe
Answer: (SHOW ANSWER)
A toner probe is used to trace and identify unlabeled network cables by sending a signal through the cable and detecting it at the other end, making it ideal for locating specific connections.

NEW QUESTION: 286
An IP address is automatically assigned to a single workstation in an office, but the technician confirms the IP address is not in the lease pool. This workstation is having issues accessing the internet and internal file shares. Which of the following address types has been automatically assigned?
A. APIPA
B. Static
C. DHCP
D. Public IP
Answer: (SHOW ANSWER)
When a workstation cannot obtain an address from a DHCP server, it automatically assigns itself an APIPA address in the 169.254.0.0/16 range, which allows limited local communication but prevents access to the internet and most internal network resources.

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NEW QUESTION: 287
A user is unable to access secure applications on their tablet when working from home a couple days per week, but the applications work when in the office. Which of the following services most likely needs to be reconfigured to allow for remote work?
A. Global Positioning System
B. Mobile device management
C. Wi-Fi Protected Access
D. Near-field communication
Answer: (SHOW ANSWER)
Mobile Device Management (MDM)software often controls access to corporate resources based on location, network, or VPN status. If the MDM is not configured to allow access from outside the office or via home networks, the apps may be blocked. This is the most probable cause if apps work only on- premises.

NEW QUESTION: 288
A user needs cellular internet connectivity for their laptop without using an external device. Which of the following technologies can the user use on their laptop to achieve this connection?
A. Bluetooth
B. Hotspot
C. SIM card
D. NFC
Answer: (SHOW ANSWER)
A SIM card enables direct cellular connectivity within a laptop that has a built-in cellular modem, allowing internet access without requiring an external device.

NEW QUESTION: 289
A technician wants to evaluate several desktop Linux OSs simultaneously. Which of the following is the best way to accomplish this task?
A. Container
B. Sandbox
C. Hypervisor
D. VDI
Answer: C (LEAVE A REPLY)
A hypervisor enables a single physical machine to run multiple full operating systems concurrently in isolated virtual machines, making it ideal for evaluating several desktop Linux distributions side by side.

NEW QUESTION: 290
Which of the following is used to install a network device when electrical outlets are unavailable?
A. WWAN
B. ONT
C. NFC
D. PoE
Answer: (SHOW ANSWER)
Power over Ethernet (PoE) is specifically designed to power network devices without requiring a separate electrical outlet. According to CompTIA Core 1 (220-1201) networking hardware objectives, PoE allows both data and electrical power to be delivered over a single Ethernet cable from a PoE- capable switch or injector to the connected device.
PoE is commonly used for devices such as wireless access points, IP cameras, VoIP phones, and access control systems, especially in locations where installing electrical outlets is difficult, expensive, or impractical. This makes PoE an ideal solution for flexible and scalable network deployments.
WWAN (Wireless Wide Area Network) provides cellular-based network connectivity but does not supply power to devices. An ONT (Optical Network Terminal) converts fiber signals to Ethernet and requires its own power source. NFC (Near Field Communication) is a short-range wireless technology used for authentication and data exchange, not for powering network devices.
CompTIA highlights PoE as a key networking technology that simplifies installations by reducing cabling requirements and eliminating the need for local power outlets.

NEW QUESTION: 291
Which of the following devices forwards traffic based on MAC addresses?
A. Switch
B. Router
C. Firewall
D. Gateway
Answer: (SHOW ANSWER)
A switch operates at Layer 2 of the OSI model and forwards traffic based on MAC addresses. It uses a MAC address table to determine the correct port for each destination device within a local network.

NEW QUESTION: 292
Which of the following devices forwards traffic based on MAC addresses?
A. Gateway
B. Router
C. Firewall
D. Switch

Answer: (SHOW ANSWER)

NEW QUESTION: 293
A user cannot access any local or remote resources. A technician runs a command to find the configuration information and gets the following results:
IPv4 Address: 192.168.1.10
Subnet Mask: 255.255.255.0
Default Gateway: 192.168.2.1
The technician checks with the NOC, and it verifies that the upstream router is configured correctly. The next hop given to the technician matches the value in the output. Which of the following should the technician change in order for the user's connection to work fully?
A. DNS settings
B. Gateway
C. Lease time
D. Firewall rules
E. Subnet mask
Answer: (SHOW ANSWER)
With the current subnet mask of 255.255.255.0, the user's IP address 192.168.1.10 is on the
192.168.1.0/24 network, while the default gateway 192.168.2.1 is on the 192.168.2.0/24 network.
A host normally needs its default gateway to be reachable on the same local network. The Mike Meyers material explains that the subnet mask identifies the network ID and host ID, and every computer on a single LAN must have the same network ID. With 255.255.255.0, the first three octets define the network, so 192.168.1.x and 192.168.2.x are different networks. The NOC verified that the gateway value itself is correct, so changing the gateway would conflict with the verified next hop. DNS settings would affect name resolution, not access to all local and remote resources. Lease time and firewall rules are not indicated by the IP information. The subnet mask must be changed so the client and gateway are in the same local IP network.

NEW QUESTION: 294
A user connects their laptop to a projector in a conference room. Once connected, the userreports the screen is smaller at the bottom than at the top. The user tries restarting the laptop and then disconnecting and reconnecting the cable to the projector. Which of the following should a technician do to resolve the issue?
A. Replace the HDMI cable.
B. Power cycle the projector.
C. Adjust the keystone
D. Increase the resolution.
Answer: (SHOW ANSWER)
A distorted image where the screen is not symmetrical (wider at the top or bottom) is typically due to keystone distortion. Adjusting the projector's keystone settings corrects this trapezoidal effect caused by an angled projection.

NEW QUESTION: 295
Which of the following requires the connector to be attached in a specific orientation?
A. HDMI
B. USB-C
C. Lightning
D. Coaxial
Answer: (SHOW ANSWER)
An HDMI connector has a distinct shape and must be inserted in a specific orientation to fit properly. Unlike reversible connectors such as USB-C or Lightning, HDMI plugs cannot be inserted

upside down.

NEW QUESTION: 296
A customer is upgrading an engineering workstation with multiple video cards and storage drives.
Which of the following should the customer consider first when identifying a new power supply?
A. Input voltage
B. Connector quantity
C. Output voltage
D. Wattage rating
Answer: (SHOW ANSWER)
When upgrading a system with multiple video cards and storage drives, the total power consumption increases significantly. The power supply must have a sufficient wattage rating to handle the combined load of all components to ensure system stability and prevent power-related failures.

NEW QUESTION: 297
The display in a conference room has a burn-in that does not match the presentation. Which of the following would best resolve the issue?
A. Adjust the color settings.
B. Correct the keystone.
C. Increase the brightness levels.
D. Replace the monitor.
Answer: D (LEAVE A REPLY)
Burn-in is a permanent image retention issue caused by prolonged display of static images. It cannot be fixed through settings adjustments, so replacing the monitor is the effective solution.

NEW QUESTION: 298
A technician is setting up a SOHO router. The environment requires DHCP to be disabled. Which of the following address types must the technician configure?
A. Static
B. Dynamic
C. Public
D. APIPA
Answer: (SHOW ANSWER)
When DHCP is disabled, devices do not receive automatic IP configuration, so each device must be manually assigned an IP address, which is a static configuration.

NEW QUESTION: 299
A user reports the following error message to the help desk:
Drive failure imminent
The user presses F1 to continue past the error and work like normal. Which of the following should the help desk technician do to fix this issue?
A. Replace the hard disk.
B. Reformat the partition.
C. Rebuild the array.
D. Enter safe mode.
Answer: (SHOW ANSWER)
A "Drive failure imminent" message indicates that the hard drive's self-monitoring system has detected signs of impending hardware failure. Replacing the hard disk is necessary to prevent data loss and system failure.

NEW QUESTION: 300

Which of the following cable types is a video-only connection?

A. DisplayPort

B. HDMI

C. USB-C

D. DVI

Answer: (SHOW ANSWER)

DVI is primarily a video-only interface that transmits digital or analog video signals from a source (like a computer) to a display.

Unlike HDMI or USB-C, DVI does not carry audio signals, making it strictly for video.

NEW QUESTION: 301

A technician installs an external camera on a user's laptop. When loading the company meeting software, the video preview shows a blank screen. Which of the following should the technician do next?

A. Select the correct camera source.

B. Replace the camera with a different model.

C. Update the camera software to the latest version.

D. Check the camera's cable for damage or pinches.

Answer: A (LEAVE A REPLY)

When an external camera is installed, conferencing software may default to a different video input. Selecting the correct camera source ensures the application uses the newly installed external camera, resolving the blank video preview.

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NEW QUESTION: 302

A multifunction printer in a small office recently had issues with scan-to-email functionality. The manufacturer has an update ready to fix the printer issues. Which of the following would a technician most likely deploy to remediate the issue?

A. Firmware

B. Driver

C. OS update

D. HSM

Answer: (SHOW ANSWER)

Firmware is the embedded software on a device such as a printer. Manufacturers often release firmware updates to resolve hardware-specific functionality issues, such as scan-to-email or security vulnerabilities.

NEW QUESTION: 303

Faded images from previous jobs appear on each page of output from an office printer. Which of the following should a technician do first to resolve this issue?

A. Reload the paper tray.

B. Adjust the fuser temperature.
C. Inspect the transfer roller.
D. Clean the corona wire.
Answer: (SHOW ANSWER)
Ghosting, where faint images from previous print jobs appear on new pages, is commonly caused by a dirty corona wire. Cleaning the corona wire restores proper charge distribution so toner does not remain on the drum between print cycles.

NEW QUESTION: 304
A user turns on their laptop. The keyboard lights up. but the screen is black even after the user restarts the laptop. Which of the following should a technician do next to troubleshoot the issue?
A. Connect the laptop to an external monitor.
B. Remove the device bezel.
C. Plug in a laptop charger.
D. Replace the laptop.
Answer: A (LEAVE A REPLY)
Connecting to an external monitor helps determine whether the issue is with the laptop's display or with internal components such as the GPU or motherboard.

NEW QUESTION: 305
An organization upgrades all desktops to Windows 11 and must ensure protection from malicious software at startup. Which option should be enabled?
A. Trusted Platform Module
B. Hardware security module
C. Secure Boot
D. BIOS password
Answer: (SHOW ANSWER)
Secure Boot is a security standard developed by members of the PC industry to help make sure that a device boots using only software that is trusted by the Original Equipment Manufacturer (OEM). When the PC starts, Secure Boot checks the signature of each piece of boot software (drivers, EFI applications, and the operating system). If the signatures are valid, the PC boots, and the OS takes control of the hardware. This prevents malware (such as rootkits) from loading during the startup process.
Windows 11 requires Secure Boot to be enabled by default as part of its system requirements to provide enhanced security.

NEW QUESTION: 306
A developer needs to isolate a testing VM in a Type 1 hypervisor from the other guests. Which of the following does the administrator need to use to accomplish this task?
A. VDI
B. Container
C. Private cloud
D. Sandbox
Answer: (SHOW ANSWER)
A sandbox provides an isolated environment within the hypervisor where a virtual machine can run independently without affecting other guests, ensuring safe testing and containment.

NEW QUESTION: 307
A customer is able to print most documents with their USB inkjet printer, but the system is unresponsive when printing a certain report from a custom application. Nothing will print until the computer is restarted and the printer is power cycled. A technician remotes into the PC and confirms that the spooler stops working when this report is sent. After cleaning the spooler and reinstalling the drivers from the manufacturer's website, the issue persists. No other sites using the application report similar issues. Which of the following is most likely causing the issue?

A. The manufacturer is curating content before it reaches the device to preserve ink.
B. The application has a bug that the developer needs to address.
C. The system is using the PostScript language instead of the PCL.
D. Personal preferences have changed and documents with graphics are now online-only
Answer: (SHOW ANSWER)
If a print spooler crashes specifically with one application and no issue occurs on other systems, the most likely root cause is a bug within that specific application. Restarting the spooler and reinstalling drivers resolves system-wide or hardware-related issues--not app-specific failures.
This indicates the application may be sending malformed print data.

NEW QUESTION: 308
Which of the following is commonly affected by high latency?
A. Satellite
B. Fiber
C. Cable
D. DSL
Answer: (SHOW ANSWER)
Satellite internet connections are commonly and significantly affected by high latency due to the vast distance signals must travel to and from geostationary satellites in orbit, which is approximately 22,000 miles (36,000 kilometers) each way. This results in a substantial signal delay (round-trip time) that typically ranges from 500 to 600 milliseconds or more.

NEW QUESTION: 309
A user connects a PC to a projector and configures the projector to use HDMI. However, when the user tries to use the projector, the projector shows a black screen with the message "HDMI2 no signal found." The user reports that the projector worked properly during a previous meeting.
Which of the following should the user do to fix the issue?
A. Replace the bulb.
B. Swap the video cable.
C. Change the input source.
D. Update the video drivers.
Answer: (SHOW ANSWER)
The error message "HDMI2 no signal found" indicates that the projector is set to an input source that is not currently receiving a video signal. Input source selection is one of the first items to verify when an external display shows a black screen but powers on correctly.
Many projectors have multiple HDMI ports (HDMI1, HDMI2, etc.). If the PC is connected to a different HDMI port than the one currently selected, the projector will display a "no signal" message even though the cable and device are functioning properly. Changing the input source to match the connected HDMI port resolves the issue quickly.

NEW QUESTION: 310
Which of the following utilizes specialized ports on a laptop to expand the local connection options?
A. NFC adapter
B. Docking station
C. Port replicator
D. USB dongle
Answer: (SHOW ANSWER)
A docking station connects to a laptop's proprietary port or USB-C/Thunderbolt, providing access to multiple additional ports(USB, Ethernet, video, audio, etc.). It allows users to transform a laptop into a full desktop workstation.

NEW QUESTION: 311
Which of the following connectors supports High-bandwidth Digital Content Protection (HDCP)?
A. DVI-A
B. F-type
C. VGA
D. DisplayPort
Answer: (SHOW ANSWER)
DisplayPort supports HDCP (High-bandwidth Digital Content Protection), which encrypts digital signals to prevent unauthorized copying of protected media during transmission between devices.

NEW QUESTION: 312
A customer reports slow network speeds. Which of the following components is most likely failing?
A. CPU
B. NIC
C. HDD
D. RAM
Answer: (SHOW ANSWER)
A Network Interface Card (NIC)is the hardware responsible for network connectivity. If the NIC is failing or underperforming (e.g., due to a bad driver, hardware fault, or misconfiguration), it can cause slow or unstable network speeds.

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