

# CompTIA

## Exam Questions 220-1101

CompTIA A+ Certification Exam: Core 1



#### NEW QUESTION 1

A department sends in a ticket to report a printer is not working. The responding technician sees paper stuck to the fuser, which is much hotter than normal. The (user was just installed a few weeks ago. as indicated by the service history. Which of the following should the technician do NEXT?

- A. Disable the printer for repairs.
- B. Install a printer roller kit.
- C. Remove the paper and let the fuser cool down.
- D. Replace the paper with thicker paper stock.

**Answer:** C

#### NEW QUESTION 2

Upon booting a workstation, a technician hears a distinct clicking sound after power is applied to the motherboard. Which of the following would MOST likely be the cause?

- A. RAID
- B. SSD
- C. S.M.A.R.T
- D. HDD

**Answer:** D

#### Explanation:

The clicking sound is the sound of a damaged disk in the HDD

#### NEW QUESTION 3

A technician powers on a PC and its monitor and sees the following error message: No input signal detected  
The display lights on the computer are on. Which of the following is a possible solution?

- A. Changing the BIOS settings
- B. Changing the connector setting on the monitor
- C. Checking the power plug on the monitor
- D. Checking the power plug on the PC

**Answer:** B

#### NEW QUESTION 4

A user reports a cell phone is getting hot. Which of the following are MOST likely to be possible causes? (Select THREE).

- A. Using the device as a Wi-Fi hotspot
- B. A cracked screen
- C. A failing battery
- D. Less than 15% free storage space on the phone
- E. Privileged control
- F. Recurring prompts to install OS updates
- G. Granting too many application camera permissions
- H. Too many open applications

**Answer:** ACH

#### NEW QUESTION 5

A user reboots a machine. On rebooting, the user hears one beep, and then an error message is displayed. Which of the following are MOST likely causing this issue? (Select TWO).

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

**Answer:** DE

#### NEW QUESTION 6

A technician is tasked with installing additional RAM in a desktop computer. Which of the following types of RAM is MOST likely to be used?

- A. SODIMM
- B. DDR3
- C. ECC
- D. VRAM

**Answer:** B

#### NEW QUESTION 7

Which of the following network types would be used in a server room to connect virtual servers to high-speed storage?

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

**Answer:** D

#### NEW QUESTION 8

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

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

**Answer:** B

#### Explanation:

Punchdown tools are used to connect wires to keystone jacks, patch panels and other communication hardware. When adding a new line at the demarcation point, a technician would use a punchdown tool to punch the wire into the keystone jack or patch panel, completing the connection.

#### NEW QUESTION 9

Recently, an organization received a number of spam emails that passed through the spam gateway. The emails contained generally the same information, but the sending domains were different. Which of the following solutions would BEST help mitigate the issue?

- A. Updating the keyword filtering
- B. Editing the sender policy framework
- C. Contacting the gateway vendor
- D. Verifying DMARC is enabled

**Answer:** D

#### Explanation:

DMARC (Domain-based Message Authentication, Reporting and Conformance) is an email authentication protocol. It is designed to give email domain owners the ability to protect their domain from unauthorized use, commonly known as email spoofing.

#### NEW QUESTION 10

The Chief Executive Officer wants to ensure company data is stored in a manner that provides the company with complete control over how the data is managed. Which of the following is the BEST cloud deployment model for this request?

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

**Answer:** D

#### NEW QUESTION 10

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

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

**Answer:** D

#### NEW QUESTION 12

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

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

**Answer:** A

#### NEW QUESTION 16

Which of the following is the PRIMARY security concern with virtual machine escape?

- A. Cross-site scripting
- B. Compromising the hypervisor

- C. Overutilization of resources
- D. Rogue virtual machines installed on the hypervisor

**Answer:** B

#### NEW QUESTION 21

A customer is using a satellite internet connection that is experiencing slowness. A technician notices high latency while pinging, but the download test is performing perfectly with very good download speeds. Which of the following represents the NEXT action the technician should perform?

- A. Restart the modem and run an online internet connection and speed diagnostic tool.
- B. Guide the customer on how to upgrade the internet plan with the provider in order to improve latency.
- C. Explain to the customer this is not an issue; this situation is normal for this type of internet connection.
- D. Replace the modem because it is not working correctly based on the test result.

**Answer:** A

#### NEW QUESTION 22

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

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

**Answer:** D

#### NEW QUESTION 24

A user brings an older laptop to the help desk and reports issues with the keyboard. Upon inspection, the technician does not see any external damage but notices that many keystrokes do not register in a word processor. The laptop works fine when the technician tests it with an external keyboard. Which of the following actions would MOST likely resolve the issue?

- A. Disable the sticky keys feature.
- B. Clean the keyboard.
- C. Reset the BIOS settings to default.
- D. Charge the laptop.

**Answer:** C

#### NEW QUESTION 25

A software developer used client-side virtualization on a server to configure a web application. Although the application is working locally on the software developer's PC, other users on the LAN are not able to access the application. Which of the following would allow other users to access the application?

- A. Bridge networking
- B. Application virtualization
- C. Virtual desktop
- D. Site-to-site VPN

**Answer:** A

#### Explanation:

Client-side virtualization is used to run an application or process on a separate virtual machine, isolated from the main operating system. To allow other users on the LAN to access the application, the software developer should configure a bridge networking connection between the virtual machine and the LAN. This will allow the virtual machine to communicate with other computers on the network. Application virtualization, virtual desktop, and site-to-site VPN are not necessary steps for allowing other users to access the application.

#### NEW QUESTION 27

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

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

**Answer:** A

#### Explanation:

The 2.4 GHz band is subdivided into up to 14 channels, spaced at 5 MHz intervals from 2412 MHz up to 2484 MHz. Wi-Fi requires bandwidth of approximately 20 MHz, not 5 MHz. Consequently, a site designer needs to choose the channels that do not overlap. On a WLAN where only the first 11 channels are available, channels 1, 6, and 11 can be selected as non-overlapping. Note: In the Americas, regulations permit the use of channels 1-11 only, while in Europe, channels 1-13 are permitted. In Japan, all 14 channels are permitted.

#### NEW QUESTION 30

A technician is working on a critical warehouse machine that will not turn on. The technician has determined the power supply for the machine failed. The warehouse manager is looking for a solution that will prevent downtime in the future. Which of the following devices should the technician install to meet this requirement?

- A. Grounded power supply
- B. Modular power supply
- C. 220V power supply
- D. Redundant power supply

**Answer: D**

**Explanation:**

A redundant power supply is a device that provides two or more power supplies connected in parallel so that when one fails, the other one will take over to ensure continuous power. This is ideal for critical warehouse machines that require a reliable power source and are at risk of downtime in the event of a power failure. Installing a redundant power supply will help to reduce the chances of an unexpected power outage and keep the machine running.

**NEW QUESTION 31**

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

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

**Answer: B**

**NEW QUESTION 33**

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

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

**Answer: B**

**NEW QUESTION 38**

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

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

**Answer: B**

**NEW QUESTION 39**

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

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

**Answer: A**

**NEW QUESTION 44**

Which of the following is a method that can be used to securely connect a remote user's laptop to a corporate server?

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

**Answer: B**

**NEW QUESTION 45**

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

- A. Public
- B. Hybrid

- C. Community
- D. Private

**Answer:** D

**NEW QUESTION 46**

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

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

**Answer:** A

**NEW QUESTION 50**

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

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

**Answer:** A

**NEW QUESTION 55**

Which of the following cables replaced the Apple 30-pin connector and is also reversible?

- A. USB-C
- B. Lightning
- C. miniUSB
- D. DisplayPort

**Answer:** B

**Explanation:**

Lightning Connector: Apple introduced this brand-new connector back in 2012. It is over 80% smaller than the 30-pin connector and is reversible.

[https://www.cablewholesale.com/support/technical\\_articles/whats\\_your\\_port.php#:~:text=Lightning%20Connec](https://www.cablewholesale.com/support/technical_articles/whats_your_port.php#:~:text=Lightning%20Connec)

**NEW QUESTION 60**

A technician is setting up a new desktop computer and will be installing the hard drive directly on the motherboard without using cables to connect it. Which of the following will the technician be installing?

- A. Thunderbolt
- B. eSATA
- C. M.2
- D. SCSI

**Answer:** C

**NEW QUESTION 62**

A technician recently discovered the root cause of an application error that several users have been experiencing. The technician updated the configurations on the affected machines and verified full functionality was restored for all users, which of the following actions should the technician perform NEXT?

- A. Write a knowledge base article in the ticketing software to expedite future Incidents.
- B. Submit a bug report to the developer of the application, along with the steps taken to resolve the Issue.
- C. Work with the developer to proactively collect the application logs to identify future errors of this type.
- D. Send an email communication to the company about the issue and the steps taken to resolve it.

**Answer:** A

**Explanation:**

CompTIA 6-Step Troubleshooting Process:

- \* 1. Identify the problem.
- \* 2. Establish a theory of probable cause. (Question the obvious)
- \* 3. Test the theory to determine cause.
- \* 4. Establish a plan of action to resolve the problem and implement the solution.
- \* 5. Verify full system functionality and if applicable implement preventative measures.
- \* 6. Document findings, actions, and outcomes.

**NEW QUESTION 66**

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

- A. Determine the next steps to resolve the issue and document it.
- B. Design a plan of action to resolve the issue and implement the solution.



- C. Document the findings, actions, and outcomes.
- D. Establish a theory of probable cause, researching internally or externally as needed.

**Answer:** D

**Explanation:**

"Identify the problem. • Question user and identify user changes to computer. • Perform backups before making changes. • Inquire regarding environmental or infrastructure changes. • Review system and application logs. \* 2. Establish a theory of probable cause (question the obvious and if necessary, conduct internal or external research based on symptoms)

**NEW QUESTION 69**

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

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

**Answer:** C

**Explanation:**

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

**NEW QUESTION 70**

A technician logs on to a PC and inserts an encrypted USB drive. When opening File Explorer, the technician cannot see the USB drive. Which of the following tools should the technician use to see all drives?

- A. DiskPart
- B. Diskmgmt
- C. Disk Cleanup
- D. BitLocker

**Answer:** D

**NEW QUESTION 72**

Which of the following utilizes TCP ports 20/21 and transfers data in cleartext?

- A. SNMP
- B. SSH
- C. FTP
- D. Telnet

**Answer:** C

**NEW QUESTION 73**

A user submitted a ticket to report an issue with a new printer that is no longer accepting new print jobs. The technician verifies the printer is on and notices the printer LCD screen has the following error message:

Paper Jam, Jam in fuser.

Which of the following is the MOST efficient next step the technician should complete?

- A. Apply a maintenance kit to the printer
- B. Check the printer paper path to locate any obstructions.
- C. Turn the printer on and off to see if the error clears.
- D. Replace the fuser.

**Answer:** B

**NEW QUESTION 75**

A user is unable to access the internet on a PC. A technician examines the PC and runs the following commands:

```
ipconfig /all
ping 8.8.8.8
ping comptia.org
```

Which of the following steps in the troubleshooting process does this series of commands represent?

- A. Establish a theory.
- B. Verify full system functionality.
- C. Establish a plan of action.
- D. Identify the problem.

**Answer:** B

**NEW QUESTION 79**

Which of the following is the SAFEST way to replace RAM on a server that has a redundant power supply?

- A. Unplug one power cable.
- B. Verify the RAM temperature.
- C. Utilize a grounding strap.
- D. Replace the RAM while the server is running.

**Answer:** C

**Explanation:**

Utilizing a grounding strap is the safest way to replace RAM on a server that has a redundant power supply. This ensures that no static electricity is transferred to any of the server components, which could cause permanent damage. The other options are not the correct methods for replacing RAM. Unplugging one power cable is not recommended, as it could cause the server to go offline and disrupt any services that are running. Verifying the RAM temperature is not necessary and does not provide any additional safety measures, and replacing the RAM while the server is running is not recommended, as it could cause system instability.

**NEW QUESTION 81**

An office manager reports that a printer is experiencing performance issues. Printouts are smudging when they are handled, and, recently, whenever the manager tries to print oversized documents, the paper jams before anything is printed on it.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

A picture containing text, electronics, printer Description automatically generated

**NEW QUESTION 83**

A company wants to use client-side visualization for application testing. Which of the following configurations would BEST support this goal?

- A)  
CPU 2.5GHz - 4 cores  
16GB DDR4 RAM  
1TB SSD
- B)  
CPU 3.2GHz - 1 core  
16GB DDR4 RAM  
4TB SSD
- C)  
CPU 2.5GHz - 2 cores  
16GB DDR4 RAM  
4x 1TB HDD RAID 5
- D)  
CPU 3.2GHz - 4 cores  
8GB DDR4 RAM  
500GB HDD



- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** A

#### NEW QUESTION 85

A technician is troubleshooting a point-of-sale printer that is printing blank receipts. Which of the following should the technician do to resolve the issue?

- A. Verify the correct type of paper is loaded.
- B. Install the latest print driver.
- C. Check to see if the default printer has been changed.
- D. Ensure the printer is connected to power.

**Answer:** D

#### NEW QUESTION 90

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

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

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

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

**Answer:** D

#### NEW QUESTION 92

A user is unable to plug a USB 3.0 device into a USB port. Upon inspection, a technician notices the USB 3.0 port appears to be slightly smaller than the other connections. Which of the following is the MOST likely cause?

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

**Answer:** D

#### Explanation:

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

#### NEW QUESTION 93

A salesperson is using a weather application on a mobile device. The application appears to be draining the device's battery very quickly. Which of the following is the BEST action for the salesperson to take in order to view weather forecasts while traveling?

- A. Enable the GPS service to ensure accurate location detection.
- B. Update the PRL when getting to a new location.
- C. Configure less location checks using cellular location services.
- D. Use the offices' Wi-Fi IP addresses as the geolocation mechanism.

**Answer:** C

#### Explanation:

The best action for the salesperson to take in order to view weather forecasts while traveling and minimize the battery drain on their mobile device is to configure fewer location checks using cellular location services. This can be done by adjusting the settings for the weather application to limit how often it checks for updates and uses location services. This will help to conserve the battery on the device and keep the application from consuming too much power.

#### NEW QUESTION 96

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

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

**Answer:** C

**Explanation:**

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

**NEW QUESTION 99**

Which of the following would MOST likely be used to connect one or more devices to the internet in a SOHO?

- A. Hub
- B. Ethernet gateway
- C. Wireless access point
- D. Router

**Answer: C**

**NEW QUESTION 103**

An end user reports that the time and date on a desktop resets after shutdown, and subsequently, the device reboots. The next day, the desktop does not load the OS and is stuck at a black screen with the following message:

```
Date/Time Not Set
Press F1 to Run Setup
```

Which of the following would be the BEST action to take next?

- A. Change the motherboard.
- B. Reseat the motherboard power connections.
- C. Replace the CMOS battery.
- D. Restore the BIOS to factory default settings.

**Answer: C**

**NEW QUESTION 107**

A technician is inspecting a projector that is displaying fuzzy images. Which of the following actions would provide the BEST solution?

- A. Adjusting the lens
- B. Changing the filter
- C. Replacing the video cable
- D. Reseating the lamp

**Answer: A**

**NEW QUESTION 110**

A company just bought a printer capable of automatically printing on both sides of the paper. After installation, however, the technician can only print on both sides of the paper manually. Which of the following should the technician do to fix the issue?

- A. Install the most recent firmware upgrade available for the printer.
- B. Contact the vendor for a hardware replacement.
- C. Reinstall the printer software and drivers, and then restart the printer.
- D. Read the installation manual and configure duplex settings.

**Answer: D**

**NEW QUESTION 112**

Which of the following allows a switch to be divided into separate logical networks?

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

**Answer: A**

**Explanation:**

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

**NEW QUESTION 114**

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

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

**Answer: A**

**NEW QUESTION 117**

A technician is investigating the output shown on a monitor. The output is clear, but it has a pink hue. The technician has replaced the video card and updated the graphics drivers. Which of the following would be the MOST likely cause?

- A. Physical cabling issues
- B. Burned-out bulb
- C. Display burn-in
- D. Incorrect data source

**Answer:** A

**NEW QUESTION 118**

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

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

**Answer:** C

**NEW QUESTION 122**

A technician installed new firmware on the company's laser printers and has since been receiving multiple calls that information is garbled and looks like code. Only printers with the new firmware are having this issue. Which of the following steps should the technician complete NEXT?

- A. Change the language settings on the printers
- B. Reboot all the machines having the issues
- C. Reboot all the printers.
- D. Install an updated printer driver on the print server

**Answer:** C

**NEW QUESTION 124**

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

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

**Answer:** C

**NEW QUESTION 129**

Which of the following concepts would be used by an online retailer to quickly add more web servers during peak sales times?

- A. Community cloud
- B. Rapid elasticity
- C. High availability
- D. Metered service

**Answer:** B

**NEW QUESTION 134**

A technician is selling up a projector (or a videoconferencing system. When the user all empts to connect a laptop to the system, the system displays the following error message.

No source found

The user tries multiple cables and inputs on the projector. Which of the following should the user try NEXT?

- A. Check the bulb on the projector and replace it with a new one.
- B. Check the display settings on the computer and set them to extend/duplicate.
- C. Replace the projector with another known-good one and try again.
- D. Replace the video card on the machine that is plugged in to the projector, as it has gone bad.

**Answer:** B

**NEW QUESTION 136**

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

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

**Answer:** A

**NEW QUESTION 139**

A technician has set up a new conference room with a TV and a video soundbar. The technician wants to test the system with a conference call. During the test, the TV speaker produces sound, but the soundbar does not. Which of the following is the MOST likely cause of the issue?

- A. The volume on the TV needs to be turned up.
- B. The conference call needs to be unmuted for audio.
- C. An incorrect HDMI cable is being used.
- D. The TV's HDMI-ARC port is not being use

**Answer:** D

**Explanation:**

HDMI-ARC (Audio Return Channel) is an HDMI connection that allows audio to be sent from the TV to an external sound system, such as a soundbar. If the TV's HDMI-ARC port is not being used, then the soundbar will not receive any audio from the TV and thus will not produce any sound. To resolve the issue, the technician should ensure that the TV's HDMI-ARC port is being used to connect the TV to the soundbar.

**NEW QUESTION 140**

Which of the following 802.11 standards supports both 5GHz and 2.4GHz channel frequencies?

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

**Answer:** B

**NEW QUESTION 143**

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

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

**Answer:** D

**Explanation:**

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

**NEW QUESTION 145**

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

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

**Answer:** C

**Explanation:**

you need to know the socket type before you can go and find the replacement motherboard

**NEW QUESTION 146**

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

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

**Answer:** C

**Explanation:**

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

#### NEW QUESTION 150

A user contacts the help desk in reference to a failing thumbprint scanner. The user states the scanner was functioning correctly yesterday. Which of the following troubleshooting steps should be performed FIRST after the ticket has been filed?

- A. Inquire about possible changes.
- B. File a damage report.
- C. Requisition a new scanner.
- D. Attempt to clean the scanner.

**Answer:** A

#### Explanation:

<http://www.221021.com/Hardware/input-output-devices/32310.html>

\* 1. Identify the problem.

Gather information from the user, identify user changes, and, if applicable, perform backups before making changes.

Inquire regarding environmental or infrastructure changes.

\* 2. Establish a theory of probable cause (question the obvious).

If necessary, conduct external or internal research based on symptoms.

\* 3. Test the theory to determine the cause.

Once the theory is confirmed, determine the next steps to resolve the problem. If the theory is not confirmed, re-establish a new theory or escalate.

\* 4. Establish a plan of action to resolve the problem and implement the solution. Refer to the vendor's instructions for guidance.

\* 5. Verify full system functionality and, if applicable, implement preventive measures.

\* 6. Document the findings, actions, and outcomes.

#### NEW QUESTION 152

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

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

**Answer:** C

#### NEW QUESTION 155

Which of the following technologies can allow multiple networks to traverse a switch?

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

**Answer:** A

#### NEW QUESTION 156

Which of the following network devices would an administrator use to distribute traffic evenly throughout multiple nodes?

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

**Answer:** A

#### Explanation:

A load balancer is a network device that distributes network or application traffic across multiple servers to ensure that no single server bears too much of the load. Load balancing helps to improve application availability, increase scalability, and optimize resource utilization.

A bridge is used to connect two different networks, often to divide a larger network into smaller segments. A proxy server is used to forward client requests to other servers, and can also be used to cache frequently requested data. A switch is used to connect multiple devices within a network and to control the flow of network traffic. A firewall is used to secure a network by controlling incoming and outgoing traffic based on defined security rules.

#### NEW QUESTION 159

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

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

**Answer:** A

#### NEW QUESTION 160

Laura, a customer, has instructed you to configure her home office wireless access point.

She plans to use the wireless network for finances and has requested that the network be setup with the highest encryption possible.

Additionally, Laura knows that her neighbors have wireless networks and wants to ensure that her network is not being interfered with by the other networks.



She requests that the default settings be changed to the following. Wireless Name: HomeWiFi

Shared Key: CompTIA Router Password: Secure\$1

Finally, Laura wants to ensure that only her laptop and Smartphone can connect to the network. Laptop: IP Address 192.168.1.100

Hardware Address: 00:0A:BF:03:C4:54 Smartphone: IP Address 192.168.1.101 Hardware Address: 09:2C:D0:22:3F:11 INSTRUCTIONS

Configure Laura's wireless network using the network adapter window.

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

### Laura's Wireless Configuration

WIRELESS SETUP
NETWORK FILTER
ADMINISTRATOR TOOLS

#### Wireless Network Settings

Enable Wireless: ☒

Wireless Network Name:  (Also called the SSID)

Wireless Channel:

Disable SSID Broadcast: ☐

802.11g Only Mode: ☐

#### Wireless Security Mode


Security Mode:




#### WPA2

Passphrase:

Confirmed Passphrase:

### Laura's House



- 
Wireless Network Name: Default  
Security Mode: Open  
Wireless Channel: 11
- 
Wireless Network Name: MyWi  
Security Mode: WEP  
Wireless Channel: 6
- 
Wireless Network Name: PatsWiFi  
Security Mode: WEP  
Wireless Channel: 11

### Laura's Wireless Configuration

WIRELESS SETUP
NETWORK FILTER
ADMINISTRATOR TOOLS

Please enter the same password into both boxes for confirmation.

Password:

Verify Password:

### Laura's Wireless Configuration

WIRELESS SETUP
NETWORK FILTER
ADMINISTRATOR TOOLS

#### Wireless Network Settings

Enable Wireless: ☐

Wireless Network Name:  (Also called the SSID)

Wireless Channel:

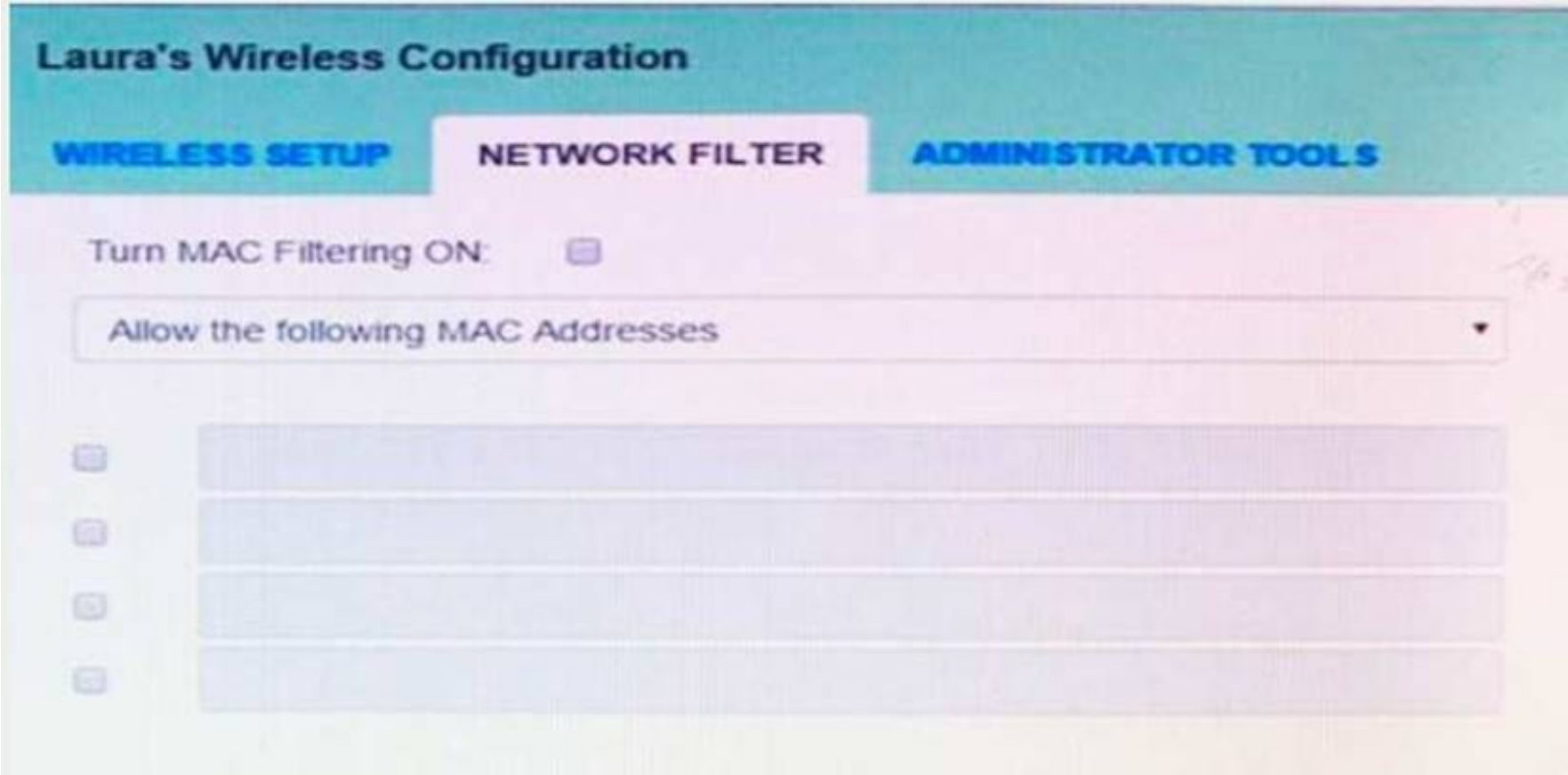
Disable SSID Broadcast: ☐

802.11g Only Mode: ☐

#### Wireless Security Mode

Security Mode:

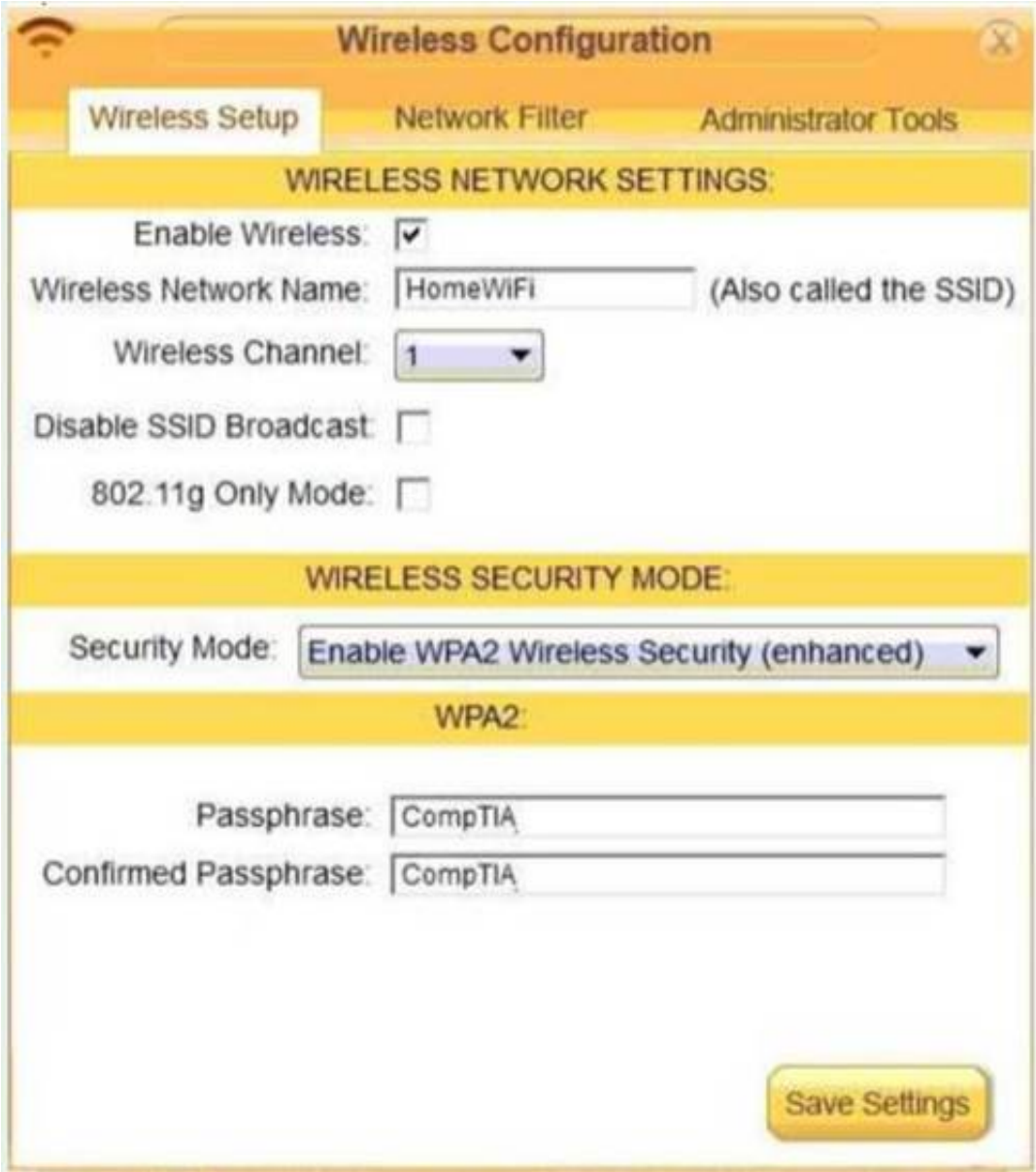


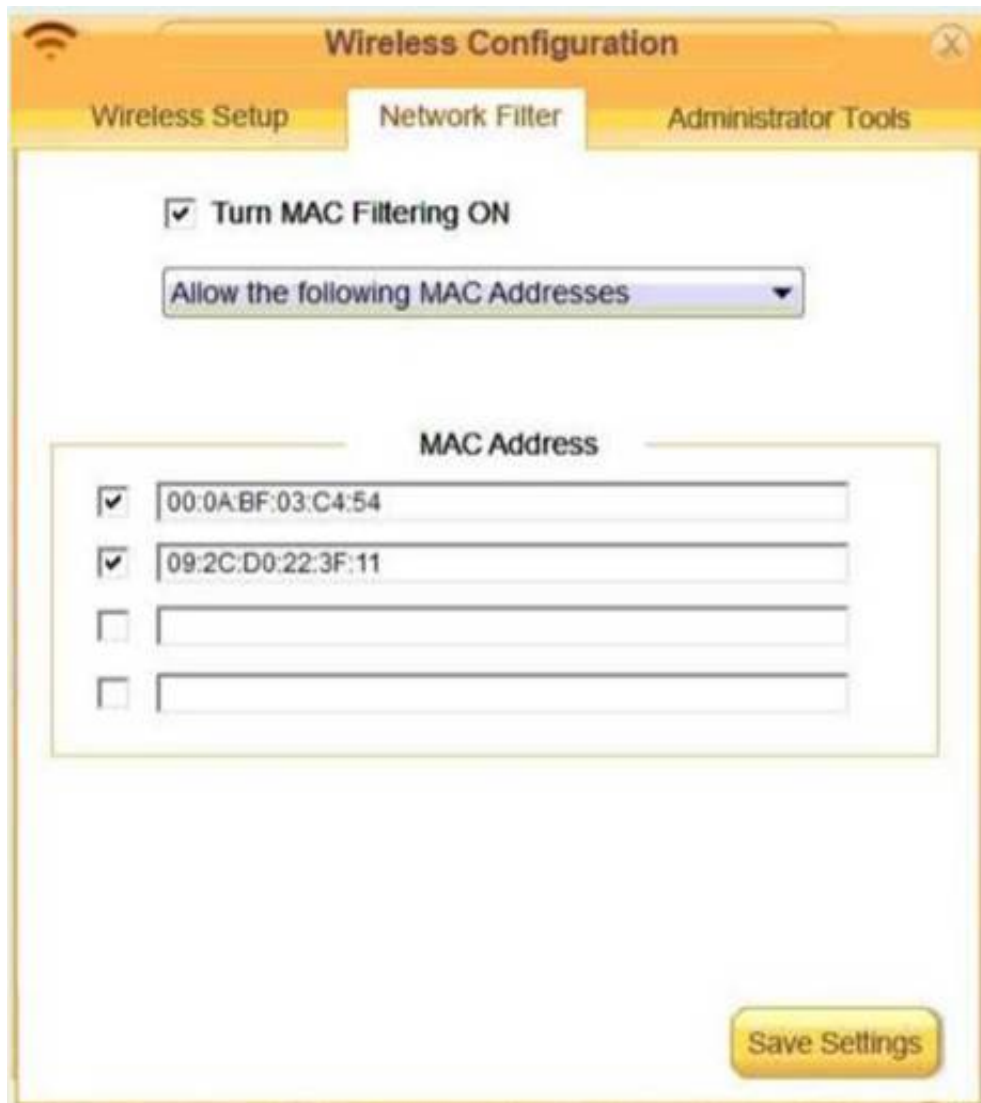


- A. Mastered
- B. Not Mastered

Answer: A

Explanation:  
solution as





**Wireless Configuration**

Wireless Setup | **Network Filter** | Administrator Tools

☒ Turn MAC Filtering ON

Allow the following MAC Addresses ▼

	MAC Address
<input checked="" type="checkbox"/>	00:0A:BF:03:C4:54
<input checked="" type="checkbox"/>	09:2C:D0:22:3F:11
<input type="checkbox"/>	
<input type="checkbox"/>	

Save Settings



**Wireless Configuration**

Wireless Setup | Network Filter | **Administrator Tools**

**ADMIN PASSWORD**

Please enter the same password into both boxes for confirmation.

Password:

Verify Password:

Save Settings

#### NEW QUESTION 163

A technician set up a new access point and has noticed significant latency on the selected channel. Which of the following tools can assist with locating the BEST channel to use?

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

**Answer:** A

#### Explanation:

A Wi-Fi analyzer is a tool that can be used to scan the local area for available wireless networks and can provide information such as signal strength, interference,

and available channels. It can also be used to locate the best channel to use for a given access point, which can help to reduce latency and improve performance.

#### NEW QUESTION 165

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

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

**Answer: B**

#### NEW QUESTION 169

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

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

**Answer: D**

#### NEW QUESTION 172

A technician is replacing the RAM on an entry-level server with hot-swappable components. Which of the following should the technician do NEXT?

- A. Replace the RAM while the server is at a cool temperature
- B. Replace the RAM while the server is running
- C. Power down the server completely and then replace the RAM
- D. Verify that the OS supports hot swapping the RAM

**Answer: C**

#### NEW QUESTION 174

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

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

**Answer: A**

#### NEW QUESTION 176

A technician is troubleshooting a projector that will not display any images. The technician has verified the computer output and cable are providing a good video signal. Which of the following should the technician do NEXT?

- A. Calibrate the image.
- B. Replace the bulb.
- C. Test the output resolution.
- D. Clean the fans.

**Answer: A**

#### NEW QUESTION 181

A user is trying to play a DVD on a projector. The user can hear the audio; however, the projector is showing an error message that states: HDMI Blocked due to Copy Protection. Which of the following is the MOST likely cause of the error?

- A. The HDMI cannot carry the signal from the DVD to the projector.
- B. The user needs to switch from HDMI to a cable standard such as DisplayPort.
- C. The projector does not support the necessary HDCP protocol.
- D. The user needs to enable copy-protected sources in the projector's settings.

**Answer:** C

**Explanation:**

The Official CompTIA® A+® Core 1 and Core 2 Student Guide (Exams 220-1001 and 220-1002) | 193 Protected content. If you encounter an error that indicates unauthorized content or an HDCP error: • DVI, HDMI, DisplayPort, and Thunderbolt all provide support for the Digital Rights Management (DRM) mechanism High-bandwidth Digital Content Protection (HDCP). HDCP allows a content source (such as a Blu-ray disc) to disable itself if the display adapter and monitor and/or speaker system do not support HDCP and fail to authenticate themselves with the playback source. There have been various iterations of HDCP (at time of writing the current version is 2.2) and backward-compatibility can be problematic as authentication may fail between devices that support different versions of the standard.

**NEW QUESTION 184**

A user's laptop is running out of disk space and requires a new hard drive. The user wants to replace the existing hard drive with the fastest possible 1 TB HDD. A technician assesses the user's hardware and determines the connections that are available. Which of the following drive types should the technician recommend as the BEST choice?

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

**Answer:** A

**Explanation:**

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

**NEW QUESTION 186**

A user acquired a new workstation and is attempting to open multiple large Excel files simultaneously. The user is not experiencing the expected performance when executing such large requests. Which of the following should a technician do FIRST?

- A. Increase the swap partition.
- B. Upgrade the CPU in the workstation.
- C. Upgrade the power supply in the workstation.
- D. Upgrade the RAM in the workstation.

**Answer:** D

**NEW QUESTION 188**

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

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

**Answer:** A

**NEW QUESTION 189**

A Microsoft Windows user is preparing to work in another country and needs to comply with corporate policy for data protection when copying files to portable media. Which of the following solutions would MOST likely satisfy this requirement?

- A. A USB 3.1 flash drive with BitLocker to Go installed
- B. An SD memory card with NTFS
- C. An xD memory card with ext3
- D. A portable hard drive with FAT32

**Answer:** A

**NEW QUESTION 193**

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

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

**Answer:** D

**NEW QUESTION 198**

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

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

**Answer:** D

**NEW QUESTION 202**

Which of the following is the SAFEST way to replace RAM on a server that has a redundant power supply?

- A. Unplug one power cable.
- B. Verify the RAM temperature.
- C. Utilize a grounding strap.
- D. Replace the RAM while the server is running.

**Answer:** C

**Explanation:**

Utilizing a grounding strap is the safest way to replace RAM on a server that has a redundant power supply. This is because the grounding strap prevents electrostatic discharge (ESD) when handling the RAM, which can cause damage to the RAM and the server. Therefore, it is important to always use a grounding strap when handling RAM or other sensitive components.

**NEW QUESTION 205**

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