

CompTIA

Exam Questions 220-1001

CompTIA A+ Certification Exam: Core 1



NEW QUESTION 1

A technician upgraded the memory on a server from two 8GB sticks to eight 32GB. The server memory is now at full capacity per the user guide. When the technician powers on the system, only 128 GB of memory is recognized by the OS and the BIOS. The technician decides to upgrade to the latest version of the firmware on the system, which does not help. Next, the technician installs the memory in sets of 64GB at a time. Each individual set of 64GB is fully recognized by the server.

Which of the following will not allow the server to recognize all of the memory installed at the same time?

- A. The power supply is not supplying enough power for the memory.
- B. The memory has too many ECC errors and is shutting down
- C. The server is overheating when all of the memory is installed.
- D. The server needs DDR4 memory, and DDR3 is installed.

Answer: D

NEW QUESTION 2

A systems administrator receives a notification from the RAID controller that the RAID 5 array is degraded. Upon logging into the server, the administrator sees that on local disk 0, physical disk 2 has failed. Which of the following is the BEST course of action to take to resolve the problem?

- A. Schedule system downtime and replace physical disk 2. Wait until the array is rebuilt and confirm in the RAID controller that the system is no longer degraded.
- B. Immediately replace physical disk 2. Wait until the arrays is rebuilt and confirm in the RAID controller that the system is no longer degraded.
- C. Delete logical disk 0 and manually configure a new RAID array only using the known-good working drive
- D. Wait until the array is rebuilt and confirm in the RAID controller that the system is no longer degraded.
- E. In the controller, convert the RAID 5 array to RAID 0 array to avoid system downtim
- F. Wait until the array is rebuilt and confirm in the RAID controller that the system is no longer degraded.

Answer: A

NEW QUESTION 3

A client needs to upgrade the hard drive on a laptop and would like one that is fast and has drop protection. Which of the following is the BEST option for the client?

- A. 5400rpm HDD
- B. 7200rpm HDD
- C. NVMe SSD
- D. Hybrid HDD/SSD

Answer: C

NEW QUESTION 4

Which of the following terminates a coaxial cable?

- A. DB9
- B. RJ45
- C. RG-59
- D. RS-232

Answer: C

NEW QUESTION 5

A technician has noticed that when at company headquarters the laptop connection to the Internet is more responsive than when using the company-provided phone as a hotspot. The technician updated the drivers on the WiFi NIC without resolution and then verified the configuration on the WiFi was correct.

Which of the following configurations could cause the decreased performance?

- A. The connection is throttled.
- B. There is a low RFID signal.
- C. SSID is not found.
- D. It is out of range.

Answer: A

NEW QUESTION 6

A technician is setting up a laptop and projector for a presentation. When plugging in the projector, it mirrors the desktop screen from the laptop but everything appears distorted and compressed. Which of the following should the technician do to correct the appearance of the image on the projector?

- A. Update the laptop graphics driver
- B. Change the scaling options.
- C. Change the desktop resolution
- D. Replace the video cable.
- E. Utilize a USB VGA graphics adapter
- F. Adjust the keystone settings on the projector

Answer: C

NEW QUESTION 7

Which of the following channels would commonly be used on an 802.11 wireless network?

- A. 6
- B. 17
- C. 802
- D. 8080

Answer: A

NEW QUESTION 8

After setting up a DHCP server and a DNS server a technician would like to centralize all of the events generated by the two servers so they can be viewed in one dashboard. Which of the following is a data source used to populate the dashboard?

- A. Netstat
- B. Host file
- C. Perfmon
- D. Syslog

Answer: B

NEW QUESTION 9

The graphics has an issue with printing certain files. The printer does not print the complete image on larger files. A technician verifies the network speed of the printer is set to 1GB and that regular text files print without issue. Which of the following is the MOST likely cause of this problem?

- A. The printer needs more RAM
- B. The print server is timing out
- C. The users are not printing in post-script mode
- D. The printer network connection is set to half duplex

Answer: A

NEW QUESTION 10

Which of the following requires less current to provide the same amount of power to devices inside a PC?

- A. 5.5V
- B. 12V
- C. 120V
- D. 220V

Answer: D

NEW QUESTION 10

A user reports being unable to print to a network-based all-in-one printer. The issue consistently appears after power outages Which of the following should a technician perform to resolve the issue?

- A. Run Windows Update on the user's machine.
- B. Disable the firewall on the user's machine.
- C. Set a static IP address on the printer
- D. Reinstall the printer with vendor-provided drivers

Answer: C

NEW QUESTION 12

An administrator has configured a server to host virtualizes instances. The requirements of each VM must be able to scale automatically depending on peak and off-peak usage. Which of the following terms BEST describes this type of cloud concept?

- A. Over provisioning
- B. Measured pooling
- C. Resources pooling
- D. Rapid elasticity

Answer: A

NEW QUESTION 13

Which of the following connector types is used to terminate household telephone cabling?

- A. RG-6
- B. RJ-11
- C. RJ-45
- D. RG-59

Answer: B

NEW QUESTION 17

Which of the following cable types should be used to connect a cable modem to a SOHO router?

- A. Thunderbolt

- B. Coaxial
- C. USB
- D. Ethernet

Answer: D

NEW QUESTION 21

A user reports a laserjet printer is not printing properly. A technician prints a test page and notices the toner is smeared on the page. The technician confirms the toner cartridge is installed correctly and the paper in the tray is the right size. Which of the following printer components is the MOST likely cause of the problem?

- A. Fuser
- B. Roller
- C. Memory
- D. Toner

Answer: A

NEW QUESTION 25

A bank employee contacts the help desk for assistance with setting up a new computer. Which of the following peripherals will the technician MOST likely install alongside the device? (Select TWO)

- A. Magnetic reader
- B. Signature pad
- C. Flatbed scanner
- D. Web camera
- E. External storage drive

Answer: AD

NEW QUESTION 26

Which of the following peripheral types is MOST likely to be used to input actions into a PC?

- A. Webcam
- B. Mouse
- C. Monitor
- D. Optical drive

Answer: B

NEW QUESTION 30

A user's laptop is shutting down unexpectedly. The technician discovers the shutdowns only happen when the laptop is moved from one room to another. The technician reseated the hard drive, memory, battery, and LCD cable, but the laptop continues to shut down.

Which of the following is the MOST probable cause of the issue?

- A. Residual energy on the motherboard
- B. System overheating
- C. Distended capacitors
- D. Loose battery connection
- E. CMOS battery failure

Answer: D

NEW QUESTION 33

A customer wants to purchase a new home computer. The machine will mainly be used for internet browsing and streaming video, except on weekends when the customer's son will use it to play games with friends.

Which of the following should the technician focus on to meet these requirements?

- A. 80mm case fans
- B. Four-core processor
- C. RAID 5 array
- D. 16GB DDR2 memory
- E. Dual monitors
- F. Encrypted hard drive

Answer: BD

NEW QUESTION 38

A customer recently moved a high-end graphics card from a known-working computer to a different computer. The computer works without issue when viewing email and web pages or when using certain applications. However, when a game with high-end graphics requirements is opened, the program will run for a few minutes before the computer shuts down. Which of the following is MOST likely causing the problem?

- A. Power supply wattage
- B. Video RAM
- C. CPU frequency
- D. Monitor resolution

Answer: A

NEW QUESTION 41

A technician wants the number of virtual machines hosting a web application in the public cloud environment to scale based on real-time traffic on the website. Which of the following should the technician configure?

- A. Resource pooling
- B. Rapid elasticity
- C. Measured service
- D. High availability

Answer: B

NEW QUESTION 45

A technician is troubleshooting a Windows CAD workstation that is running slow. The computer uses RAID 10 and has dual GPU cards. The user states that the same application runs faster on an identical workstation.

Which of the following should the technician perform FIRST to troubleshoot the problem?

- A. Replace the write cache battery.
- B. Check the event log any cache issues.
- C. Clear the RAID configuration file and restart the PC.
- D. Replace the RAID controller write cache module.

Answer: B

NEW QUESTION 48

The ability for new computers to be automatically connected to the network is provided by the:

- A. DHCP server
- B. DNS server
- C. proxy server
- D. TACACS server

Answer: A

NEW QUESTION 53

A customer contacts the help desk stating a laptop does not remain charged for more than 30 minutes and will not charge more than 15%. Which of the following components are the MOST likely causes the issue? (Select three.)

- A. LCD power inverter
- B. AC adapter
- C. Battery
- D. Processor
- E. VGA card
- F. Motherboard
- G. Backlit keyboard
- H. Wireless antenna

Answer: ACF

NEW QUESTION 55

Which of the following cloud computing concepts allows scalable services to be provided to the client?

- A. On-demand
- B. Metered
- C. Rapid elasticity
- D. Resource pooling

Answer: C

NEW QUESTION 60

A user wants to print a large job on both the front and back sides of the paper.

Which of the following settings should the technician advise the user to change in the printer settings?

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

Answer: C

NEW QUESTION 61

A technician is configuring a high-performance workstation. The technician needs to choose storage for the boot drive with the highest performance possible.

Which of the following drive types BEST meets this requirement?

- A. MicroSD
- B. 15K rpm
- C. NVMe

D. USB flash

Answer: C

NEW QUESTION 64

Which of the following is the MOST likely cause for a network PC to have an APIPA address?

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

Answer: A

NEW QUESTION 68

A technician manually configured the wireless connection on the Chief Information Officer's (CIO's) new laptop so it can communicate with the network at the office. The CIO now is having trouble connecting to a guest WiFi hotspot. While the device has a gateway address and says it is connected, the CIO cannot access company email. Which of the following would BEST resolve the issue?

- A. Move the CIO's laptop closer to the access point to obtain a better RF signal
- B. Restart the wireless connection to obtain a self-assigned APIPA address
- C. Assign a different IP address to the device in conflict with the CIO's laptop
- D. Set the network connection to use DHCP instead of a static address
- E. Change the network's SSID to a mobile hotspot to access company email

Answer: D

NEW QUESTION 71

A user is experiencing email problems and explains to a technician that all emails with graphics or images do not display the graphics. Which of the following configurations would correct this behavior?

- A. Change the email settings in antivirus.
- B. Change the security settings of the email client.
- C. Change the firewall security settings.
- D. Change the email proxy settings.
- E. Change the trusted sites in the browser settings.

Answer: B

NEW QUESTION 76

Company management wants to be able to give users the ability to work remotely during periods of bad weather. Which of the following should be enabled to allow the workforce to do this?

- A. NAT
- B. VLAN
- C. VPN
- D. HIPS

Answer: C

NEW QUESTION 81

Joe, a technician, is dispatched to troubleshoot a server that will not boot. The server console states no boot device can be found. Joe reboots the server with the same result. He then attempts to repair the master boot record and boot sector with no results. Joe realizes the server is set up in a RAID 0 configuration and is certain there is a bad hard drive. Which of the following should Joe do to get the server to boot right away?

- A. Unplug the defective hard-drive cable and reboot the server
- B. Change the RAID controller configuration from RAID 0 to RAID 5.
- C. Break the mirror and set the good hard drive as the default boot drive
- D. Replace the faulty hard drive and restore from server data from backup

Answer: D

NEW QUESTION 84

A user accidentally spills liquid on a laptop. The user wants the device to be fixed and would like to know how much it will cost. Which of the following steps should the technician take NEXT to verify if the device is repairable before committing to a price? (Choose two.)

- A. Remove the case and organize the parts.
- B. Document the screw locations.
- C. Search the Internet for repair tutorials.
- D. Consult colleagues for advice.
- E. Place the device in rice for a few days.

Answer: AB

NEW QUESTION 88

A shipping department is having problems with its thermal label printer. Two columns on the left are not appearing on all labels. Which of the following should a technician do FIRST?

- A. Verify the ribbon is correctly aligned to the label
- B. Run a label calibration
- C. Remove stuck labels from the print path
- D. Replace the print head

Answer: A

NEW QUESTION 90

Which of the following is used to connect a headset to a laptop?

- A. eSATA
- B. BNC
- C. RG-6
- D. USB

Answer: D

NEW QUESTION 95

A user is no longer able to browse the Internet after returning from vacation. The user is able to log in and navigate to the local intranet, but not to any outside sites. A technician pings a well-known website by name but gets no reply. The technician then pings its IP address and gets a reply.

Which of the following commands will MOST likely resolve the issue?

- A. ipconfig /all
- B. ipconfig /flushdns
- C. ipconfig /release
- D. ipconfig /setclassid

Answer: B

NEW QUESTION 98

A user printed several documents to a shared network copier and noticed that they have very faint color density. A technician investigates the issue and verifies that the printer had a maintenance kit installed recently. Which of the following next steps will MOST likely resolve the issue? (Select two.)

- A. Replace the toner cartridges
- B. Replace the fuser module
- C. Clean the paper tray rollers
- D. Adjust the printer settings
- E. Replace the developer
- F. Empty the waste toner bottlers

Answer: AC

NEW QUESTION 99

Which of the following devices can utilize VLANs to secure networks?

- A. Switch
- B. Hub
- C. Repeater
- D. Bridge

Answer: A

NEW QUESTION 101

Which of the following server types caches previously visited web pages for faster access in the future?

- A. Proxy server
- B. Web hosting server
- C. DNS server
- D. Branch cache server

Answer: D

NEW QUESTION 106

The touch-screen feature on a Windows device has stopped working. Which of the following should the technician check FIRST?

- A. Device Manager
- B. Performance Monitor
- C. System configuration
- D. Digitizer settings

Answer: D

NEW QUESTION 109

A network administrator is attempting to access the firewall while inside the datacenter. Which of the following peripherals must be connected to do so?

- A. KVM
- B. Touchpad
- C. Mouse
- D. Keyboard

Answer: A

NEW QUESTION 110

An end user wants to have a second monitor installed on a laptop. Which of the following would allow a technician to configure the laptop to show both screens once the cable is connected?

- A. Plug an external monitor into the USB port.
- B. Use the Fn and function key combination
- C. Adjust the monitor display settings.
- D. Enable DisplayPort.

Answer: C

NEW QUESTION 114

The cloud model that represents a company maintaining some data in on-premise storage and some data in cloud-based storage is known as:

- A. hybrid
- B. private
- C. public
- D. community

Answer: A

NEW QUESTION 119

A client has three locations within city limits that need to be networked. Vendor network requirements for all three locations are a minimum of 1GB. Which of the following are the types of networks that will MOST likely be used for internal office and office-to-office networking? (Choose two.)

- A. MAN
- B. LAN
- C. WAN
- D. PAN
- E. SAN
- F. WLAN

Answer: AB

NEW QUESTION 121

A company offers several out-of-the-box computer configurations to its clients. A client requests several new computers for its newest location, which will be used by guests to check in upon arrival and fill out contact information. Which of the following configurations would BEST fit this customer's needs?

- A. Touch-screen kiosk
- B. Thick client
- C. CAD workstation
- D. Virtualized host computer

Answer: A

NEW QUESTION 122

A user states the department laser printer continues to display a paper jam error message despite the jam being cleared. Which of the following should a technician do to troubleshoot this problem?

- A. Check the paper path for blocked sensors
- B. Replace the duplex assembly
- C. Run the printer's internal diagnostics
- D. Verify the pickup rollers are in working order

Answer: A

NEW QUESTION 127

A network administrator would like to increase network bandwidth to iGbps between two office buildings that are 0.5mi (805m) apart. Which of the following would be the BEST solution?

- A. Fiber
- B. Coaxial
- C. Plenum
- D. Cat 6

Answer: A

NEW QUESTION 130

A technician is setting up a VM for use in testing software deployments. The VM is offline, but the hypervisor is not. Which of the following settings should the technician change to resolve this issue?

- A. Virtual security
- B. Virtual storage
- C. Virtual CPU
- D. Virtual switch
- E. Virtual RAM

Answer: C

NEW QUESTION 133

A technician is buying a PC that will host three VMs running at the same time with the current configuration. The technician believes there might be a need to run several additional VMs in the near future. Which of the following resources would be the MOST important to upgrade to allow for the additional VMs?

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

Answer: B

NEW QUESTION 138

A technician needs to call a user's cellular provider to troubleshoot a network speed issue with the user's mobile device. Which of the following technologies is the technician troubleshooting?

- A. Long-term evolution
- B. Near-field communication
- C. Radio frequency ID
- D. Z-wave

Answer: A

NEW QUESTION 141

A technician has been informed that multiple users are receiving duplicate IP address warnings on their workstations, and they are unable to browse the Internet. Which of the following server types should the technician log in to in order to resolve the problem?

- A. DNS server
- B. DHCP server.
- C. Proxy server
- D. RADIUS server

Answer: B

NEW QUESTION 146

Virtual machines hosted in the cloud that are used by developers to code applications are an example of:

- A. FaaS
- B. BaaS
- C. PaaS
- D. SaaS
- E. IaaS

Answer: C

NEW QUESTION 150

Joe, a user, reports that his new smart wearable device is not synchronizing to his mobile device. Both devices are powered on, but the mobile device fails to read the data from the wearable. Which of the following will MOST likely fix this issue?

- A. Pair the devices
- B. Set the SSID
- C. Update the smart wearable device firmware
- D. Enable NFC

Answer: A

NEW QUESTION 153

An administrator connects to the company's cloud account and builds a server that is hosted in the cloud. The server will be used as a confidential database server for one of the company's core applications. The administrator is responsible for patching and updating the server OS. Which of the following cloud models is this an example of?

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

Answer: A

NEW QUESTION 155

Which of the following cloud computing concepts facilitates automated server deployment?

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

Answer: B

NEW QUESTION 156

Which of the following is designed to function BEST in harsh lighting conditions?

- A. Large tablet
- B. E-reader
- C. Smart watch
- D. Virtual reality headset

Answer: D

NEW QUESTION 160

A technician is replacing a broken screen on a new company laptop but does not have repair information from the vendor. Which of the following is the BEST way to proceed?

- A. Document and label the cable and screw locations.
- B. Replace the screen with a non-OEM.
- C. Update the firmware on the device before repairing it.
- D. Wait for the vendor to provide more information.

Answer: A

NEW QUESTION 164

An end user has signed up to use a web-based calendar application. Which of the following solutions has the user purchased?

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

Answer: B

NEW QUESTION 165

Which of the following wireless standards is only capable of 5GHz frequencies?

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

Answer: A

NEW QUESTION 170

Which of the following features will save the battery life of a laptop significantly if they are disabled? (Choose two.)

- A. Touchpad
- B. Volume
- C. Screen orientation
- D. Cellular
- E. Bluetooth
- F. Fingerprint reader

Answer: DE

NEW QUESTION 174

A technician is setting up a new wireless network at a branch office that previously had only wired connectivity with statically assigned IP addresses. After setting up the network, the technician configures a server to provide IP addresses to wireless clients. During testing, the technician is unable to access the Internet or named network resources. The technician receives a valid IP address from the DHCP server and can ping the default gateway. Which of the following should the technician check NEXT to resolve this issue?

- A. Ensure the options are configured to provide a DNS server.
- B. Verify the Windows Firewall is turned off.
- C. Configure the wireless network's SSID to be hidden.
- D. Enable file and printer sharing in the OS.

Answer: A

NEW QUESTION 178

A network administrator must install a device that will proactively stop outside attacks from reaching the LAN. Which of the following devices would BEST meet the organization's needs?

- A. IPS
- B. IDS.
- C. Proxy server
- D. Authentication server.

Answer: A

NEW QUESTION 180

Which of the following is considered a connection-oriented protocol?

- A. UDP
- B. TCP
- C. SSH
- D. HTTP

Answer: B

NEW QUESTION 185

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