



CompTIA

Exam Questions 220-1101

CompTIA A+ Certification Exam: Core 1

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NEW QUESTION 1

A technician needs to recommend an internet connection for a customer who travels around the world and wants to have connectivity while visiting remote camping locations. Some of the locations the customer visits have limited or unreliable cellular service. Which of the following connection types should the technician recommend?

- A. Satellite
- B. DSL
- C. Fiber
- D. Hotspot

Answer: A

NEW QUESTION 2

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

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

Answer: A

Explanation:

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

NEW QUESTION 3

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 4

A help desk technician thinks a desktop PC has failed due to a defective power supply. Which of the following steps should the technician take NEXT?

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

Answer: B

Explanation:

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

NEW QUESTION 5

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

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

Answer: B

Explanation:

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

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

quoted from here:

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

NEW QUESTION 6

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 7

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 8

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 9

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 10

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

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

Answer: D

NEW QUESTION 10

Vertical streaks are appearing on the output of a laser printer. Which of the following items is the MOST likely cause?

- A. Roller
- B. Drum
- C. Transfer belt
- D. Ribbon

Answer: B

Explanation:

Vertical or horizontal lines—Marks that appear in the same place (referred to as repetitive defects) are often due to dirty feed rollers (note that there are rollers in the toner cartridge and fuser unit too) or a damaged or dirty photosensitive drum.

NEW QUESTION 15

A thermal punier that is used to print order buckets in a factory has been experiencing issues following the failure of the air conditioner during the summer. Each ticket has blank spots or is missing text. Which of the following would MOST likely solve these issues?

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

Answer:

D

NEW QUESTION 16

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

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

Answer: C

Explanation:

CompTIA study guide says Apple Devices use thunderbolt and lightning cables the most, but it is being implemented in Windows and Linux products.

NEW QUESTION 20

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

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

Answer: B

Explanation:

Dot Matrix printers do not use heat, they use a pin striking an inked ribbon (for the first copy, the subsequent copies are handled by the carbon paper)

NEW QUESTION 24

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 26

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

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

Answer: A

NEW QUESTION 29

A technician is commissioning a workstation that is required to have mirrored storage, utilizing two 4TB drives that support one failure. Which of the following BEST meets these requirements?

- A. RAID 0
- B. RAID 1
- C. RAID 5
- D. RAID 10

Answer: B

NEW QUESTION 34

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

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

Answer: D

Explanation:

In a hybrid cloud model, the infrastructure is shared between public cloud services and an on-premise private cloud. This means that the insurance company can benefit from the scalability and cost-effectiveness of public cloud services, while also having the control and security of a private cloud. This allows the company to

access resources that are specialized to their industry, while also ensuring that their data and infrastructure are kept secure.

NEW QUESTION 35

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

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

Answer: D

Explanation:

Three beeps indicate a "base memory read/write test error". Check out "beep codes" for more information. https://en.wikipedia.org/wiki/Power-on_self-test#POST_beep_codes_on_ComptIA_A.2B_certification_exam

NEW QUESTION 36

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 40

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

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

Answer: D

NEW QUESTION 43

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 travelling?

- A. Enable the GPS service to ensure accurate location detection.
- B. Manually enter office locations in the weather application.
- C. Configure less frequent location checks using cellular location services.
- D. Use the offices' Wi-Fi IP addresses as the geolocation mechanism.

Answer: B

Explanation:

<https://nerdschalk.com/how-to-fix-weather-app-battery-drain-on-ios-16/>

NEW QUESTION 46

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

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

Answer: B

NEW QUESTION 47

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 51

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 56

A user, who is attempting to give a presentation via a projector in a conference room, reports the projector has video but no audio. Which of the following will MOST likely resolve the issue?

- A. Changing the input on the projector to VGA
- B. Changing the output on the PC to DVI
- C. Modifying the projector's refresh rate
- D. Utilizing an HDMI connection

Answer: D

NEW QUESTION 61

A technician installed a Cat 5 UTP cable approximately 275ft (84m) from a network switch in an office to a workstation located on a factory floor. The technician sees both a flashing green LED and a flashing orange LED on the workstation's NIC. Which of the following should the technician do FIRST?

- A. Check for loose connections, pinched bends, and physical damage.
- B. Install a powered hub as close as possible to the halfway point in the Cat 5 UTP cable run.
- C. Replace the entire run of Cat 5 UTP cable with Cat 5 STP cable.
- D. Upgrade the entire cable run to multimode fiber.

Answer: C

NEW QUESTION 62

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 64

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

- A. Spectrum analyzer
- B. Network tap
- C. Lookback plug
- D. Toner probe

Answer: B

NEW QUESTION 66

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 67

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 70

A user is researching hard drives to upgrade a PC and has decided to purchase a NVMe drive. Which of the following Should the user confirm are available on the PC before making the purchase? (Select TWO).

- A. SATA
- B. M.2
- C. PCIe
- D. SAS
- E. SCSI
- F. DRAM

Answer: BC

Explanation:

NVMe (Non-Volatile Memory Express) drives are high-speed solid-state drives that utilize the PCIe (Peripheral Component Interconnect Express) interface to connect to the motherboard. Before purchasing an NVMe drive, the user should confirm that the PC has an available M.2 slot for the drive and that the PC has a PCIe interface for the M.2 slot.

SATA (Serial ATA) is an older interface for hard drives and is not compatible with NVMe drives. SAS (Serial Attached SCSI) is a newer interface for hard drives and is typically used for enterprise-level storage systems.

SCSI (Small Computer System Interface) is a parallel interface for hard drives that is primarily used in high-end workstations and servers. DRAM (Dynamic Random Access Memory) is a type of memory commonly used in computers, but it is not relevant to the storage of data on a hard drive.

NEW QUESTION 71

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

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

Answer: B

NEW QUESTION 76

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

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

Answer: D

NEW QUESTION 79

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 84

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 86

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 88

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 89

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 92

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 93

A university student was able to boot from a live Linux CD on a computer in a shared space on campus. Which of the following will BEST prevent this type of action from occurring in the future?

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

Answer: A

NEW QUESTION 98

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

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

Answer: C

NEW QUESTION 101

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 104

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 105

The help desk received a ticket regarding Issues with a laser printer. The printer has had repairs previously for scanning Issues. Currently, the printed text is not adhering properly to the paper. Which of the following should be replaced to resolve this Issue?

- A. Fuser
- B. Waste container
- C. Roller
- D. Toner

Answer: D

NEW QUESTION 107

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 110

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

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

Answer: B

NEW QUESTION 113

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 117

A technician is troubleshooting a computer that is not completing POST and gets stuck at the manufacturer logo screen. All internal, removable parts have been disconnected and only the minimum parts necessary to POST were reconnected. However, the symptoms remain the same. Which of the following should the technician try NEXT?

- A. Test the RAM in different slots, one at a time.
- B. Remove and test the power supply.
- C. Replace the motherboard.
- D. Change the CMOS battery.

Answer: A

Explanation:

CMOS is for date and time and should not stop a host from booting. If working on a host with ECC memory you would test the ram in a different slot or a different Stick all together. If that did not work, I would swap in the other CPU to check if that is the issue. The ECC part isn't important other than thats what I'm used to working on at AWS and that is the only way you would be able to swap the CPUs easily.

NEW QUESTION 122

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

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

Answer: D

Explanation:

A VMware resource pool is the aggregated physical compute hardware -- CPU and memory, as well as other components -- allocated to virtual machines (VMs) in a VMware virtual infrastructure.

NEW QUESTION 127

A technician needs to install a printer on the network. Which of the following must the technician configure? (Select THREE).

- A. PCL
- B. Dots per inch
- C. Gateway
- D. Subnet mask
- E. MAC address
- F. MB
- G. IP address
- H. Drivers

Answer: AEH

NEW QUESTION 131

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

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

Answer: A

Explanation:

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

NEW QUESTION 135

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

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

Answer: B

NEW QUESTION 139

Which of the following is a valid use for PaaS?

- A. Off-site backups
- B. An application development environment
- C. A virtual server installation and configuration model
- D. A web application for asset management

Answer: B

NEW QUESTION 143

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

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

Answer: C

NEW QUESTION 144

A technician is troubleshooting a point-of-sale primer that ls printing blank receipts. Which o(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 148

A client wants to connect an external keyboard to an Android tablet. Which of the following connection types are appropriate for this task? (Select TWO).

- A. DVI
- B. Infrared
- C. Lightning
- D. USB-C
- E. PS/2
- F. Bluetooth

Answer: AD

NEW QUESTION 151

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

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

Answer: C

NEW QUESTION 153

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 156

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 160

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 162

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 165

A user on a SOHO network is unable to watch online videos, even at 240 pixels. The technician runs ipconfig from the user's computer and records the following:

```
Connection-specific DNS Suffix .: lan
Link-local IPv6 Address . . . . .: fe80::1585:7fb2:b05f:7102%12
IPv4 Address. . . . .: 192.168.1.131
Subnet Mask . . . . .: 255.255.255.0
Default Gateway . . . . .: 192.168.1.1
```

The technician then connects a test laptop to the router via the user's Cat 5 cable and records the following information:

```
Download: 85 mbps
Upload: 22 mbps
Ping: 28 ms
```

Which of the following is MOST likely causing the user's issue?

- A. Incorrect IP address
- B. Faulty NIC
- C. Misconfigured default gateway
- D. Bad network cable

Answer: B

NEW QUESTION 168

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

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

Answer: A

NEW QUESTION 172

Which of the following components enables the input on a mobile device's touch screen?

- A. OLED
- B. Digitizer
- C. Inverter

D. CMOS sensor

Answer: B

NEW QUESTION 173

A laptop PC user is reporting issues with the hard drive. A filesystem check shows that all files are accessible and the filesystem is clean. After the check, the PC still issues a hard drive error message. Which of the following is the MOST likely cause of the error?

- A. S.M.A.R.T failure
- B. IOPS failure
- C. DIMM failure
- D. RAID failure

Answer: A

NEW QUESTION 176

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 178

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 180

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

- A. 2.4GHz has less interferenc
- B. 5GHz transmits inlower speed.
- C. 2.4GHz penetrates solid objects more effectivel
- D. 5GHz provides faster data connections.
- E. 2.4GHz has a higher data rat
- F. 5GHz has 23 channels.
- G. 2.4GHz has ll channel
- H. 5GHz has no data interference.
- I. 2.4GHz has a higher coverage are
- J. 5GHz has higher bandwidth.
- K. 2.4GHz has a higher bandwidt
- L. 5GHz has lower transmit power.

Answer: BE

Explanation:

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

NEW QUESTION 182

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 186

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 190

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

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

Answer: D

Explanation:

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

NEW QUESTION 195

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

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

Answer: BC

NEW QUESTION 197

A technician responds to a help desk ticket that indicates a user's workstation is not booting. The technician initially suspects a failed hard drive. The technician performs diagnostics and confirms the hard drive is fully operational. Which of the following steps should the technician complete NEXT?

- A. Reinstall the operating system.
- B. Configure a new RAID array.
- C. Report the status of the drive and close the ticket.
- D. Consider another possible cause of the issue.
- E. Restore the latest backup of the system.

Answer: D

Explanation:

Since the hard drive appears to be functioning normally, the technician should investigate other potential causes of the issue. This could include checking the BIOS settings, verifying the connections to the hard drive, and testing the RAM. Once these steps have been completed, the technician can then take the necessary steps to resolve the issue.

NEW QUESTION 200

A user connects a smartphone to a laptop. Which of the following types of networks has the user created?

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

Answer: A

NEW QUESTION 201

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 202

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 207

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 211

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 216

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 218

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 221

A user reports that printed receipts have black smudges over the entire image. The text is still present but is very dark and sometimes illegible. Which of the following are the MOST likely cause and solution for the printer issue?

- A. The ribbon is jammed and is rubbing on the pape
- B. Clear the bad ribbon and feed it through properly.
- C. The printhead is too ho
- D. Adjust the temperature down and retry printing.
- E. The printer is loaded with the wrong type of pape
- F. Replace the receipt paper with carbon paper.
- G. The blue ink cartridge was loaded with black in
- H. Put in the correct ink and clean the printhead.

Answer: B

Explanation:

Receipts are printed via a thermal printer. Thermal printers work by heating a paper in specified areas in order to create an image. The specific component that does this is a thermal printhead. Since the image appears to have black smudges and is too dark, we know the thermal printhead is too hot since the capability of precise heating has diminished

NEW QUESTION 226

A company needs to support a 10Gbps throughput. Which of the following is the MINIMUM cable category that could be used?

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

Answer: C

NEW QUESTION 229

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:

Laura's Wireless Configuration

WIRELESS SETUP

NETWORK FILTER

ADMINISTRATOR TOOLS

Turn MAC Filtering ON: ☐

Allow the following MAC Addresses

☐

☐

☐

☐

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
solution as

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Wireless Configuration

Wireless Setup

Network Filter

Administrator Tools

WIRELESS NETWORK SETTINGS:

Enable Wireless:

☒

Wireless Network Name:

HomeWiFi

(Also called the SSID)

Wireless Channel:

1

Disable SSID Broadcast:

☐

802.11g Only Mode:

☐

WIRELESS SECURITY MODE:

Security Mode:

Enable WPA2 Wireless Security (enhanced)

WPA2:


Passphrase:

CompTIA

Confirmed Passphrase:

CompTIA

Save Settings



Wireless Configuration

Wireless Setup

Network Filter

Administrator Tools

☒ Turn MAC Filtering ON

Allow the following MAC Addresses

MAC Address

☒ 00:0A:BF:03:C4:54

☒ 09:2C:D0:22:3F:11

☐

☐

Save Settings



The image shows a 'Wireless Configuration' window with three tabs: 'Wireless Setup', 'Network Filter', and 'Administrator Tools'. The 'Administrator Tools' tab is active, showing an 'ADMIN PASSWORD' section. It instructs the user to 'Please enter the same password into both boxes for confirmation.' There are two input fields: 'Password:' and 'Verify Password:', both containing the text 'Secure\$1'. A 'Save Settings' button is located at the bottom right.

NEW QUESTION 233

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

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

Answer: B

NEW QUESTION 237

A colleague has a laptop that has been working as expected for several years wall outlet. The MOST likely component that needs to be replaced is the:

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

Answer: B

NEW QUESTION 238

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

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

Answer: A

NEW QUESTION 240

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

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

Answer: A

NEW QUESTION 242

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 244

A technician made several upgrades to a computer and then determined the power supplied by the PSU is insufficient. Which of the following would MOST likely cause the insufficiency? (Select TWO).

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

Answer: CF

Explanation:

<https://www.buildcomputers.net/power-consumption-of-pc-components.html>

NEW QUESTION 248

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

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

Answer: C

NEW QUESTION 253

Which of the following describes the operational difference between hubs and switches when transmitting data to a specific computer inside the network?

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

Answer: A

NEW QUESTION 255

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

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

Answer: A

NEW QUESTION 257

A technician is troubleshooting a smartphone that has a large dark area on the screen. The screen has no damage to indicate that it is cracked. Which of the following BEST describes why a blot is on the screen?

- A. Digitizer damage
- B. Improper charging
- C. Ambient light sensor damage
- D. Liquid damage

Answer: A

Explanation:

A blot on the screen of a smartphone is most likely caused by damage to the digitizer, which is the part of the device responsible for interpreting touch input. Improper charging is unlikely to cause a blot on the screen, as is damage to the ambient light sensor. Liquid damage is a possibility, but it is more likely to cause discoloration or other physical damage to the screen.

NEW QUESTION 262

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 267

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

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

Answer: B

NEW QUESTION 268

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 271

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 273

A user submitted a support ticket that states all of the printouts from a laser printer appear to have double images imposed on them. A review of past printer support tickets shows that maintenance kit has not been installed in more than a year. Which of the following printer consumables is MOST likely causing the issue?

- A. Separation pad
- B. Transfer roller
- C. Ink cartridge
- D. Fuser

Answer: D

Explanation:

<https://www.vingle.net/posts/4651722>

NEW QUESTION 274

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