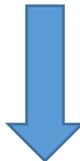


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QUESTION 1

As a best practice, which of the following should be determined prior to provisioning a server? (Select TWO.)

- A. User accounts
- B. Group accounts
- C. Hostname
- D. MAC address
- E. Domain name
- F. IP address

Answer: CF

QUESTION 2

A system administrator needs to install an operating system onto a new server in a remote location using PXE. Which of the following methods will BEST accomplish this?

- A. SSH
- B. RDP
- C. TFTP
- D. HTTP

Answer: C

QUESTION 3

When attempting to diagnose service access issues between multiple hosts that coordinate information, which of the following can be used to track dependencies?

- A. Dataflow diagrams
- B. Architecture diagrams
- C. Baseline documentation
- D. Service manuals

Answer: A

QUESTION 4

An organization has agreed on the software that will be used to virtualize the company's web servers. Which of the following should the administrator reference prior to purchasing physical servers to be deployed as hosts in the new virtual architecture?

- A. The vendor's software compatibility list
- B. The vendor's service level agreement
- C. The vendor's hardware compatibility list
- D. The vendor's end user licensing agreement

Answer: C

QUESTION 5

Which of the following is a benefit of utilizing a type 2 hypervisor to manage guests?

- A. The administration of the guest OS is significantly less complex.
- B. There is reduced resource overhead since there is no OS layer.

- C. A type 2 hypervisor offers increased performance over a type 1 hypervisor.
- D. There is increased hardware support since there is an OS layer.

Answer: D

QUESTION 6

A system administrator has decided to create several VMs for a company. In which of the following locations would each of the VMs reside?

- A. Host
- B. VNC
- C. Guest
- D. VPN

Answer: A

QUESTION 7

An ISP is currently drafting and compiling a Service Level Agreement that states there should only be 5.26 minutes of downtime per year, 25.9 seconds per month, and 6.05 seconds per week. Which of the following percentages should be used to meet these metrics?

- A. 99.9%
- B. 99.99%
- C. 99.999%
- D. 99.9999%

Answer: C

QUESTION 8

A technician is tasked with building a test server. Which of the following hard drive types will provide the highest performance?

- A. SCSI
- B. SAS
- C. SATA
- D. iSCSI

Answer: B

QUESTION 9

A technician is tasked to build a server requiring the fastest possible performance. Which of the following would achieve this requirement?

- A. 10,000 RPM SATA
- B. 15,000 RPM SAS
- C. SSD
- D. USB

Answer: C

QUESTION 10

A technician is called upon to add storage to a database server. The database administrator needs

the maximum performance for accessing many small files. Which of the following specifications should the technician focus on when selecting the drive to add to the server?

- A. Form factor
- B. Capacity
- C. Bus bandwidth
- D. Seek time

Answer: D

QUESTION 11

A hardware compatibility list recommends striping with double parity as storage for an application. In a test environment, a technician realizes that a different RAID level can be used to compensate for a limited number of available disks. Which of the following is the closest RAID level the technician should deploy while minimizing the number of disks and maintaining fault tolerance?

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

Answer: C

QUESTION 12

An emergency power off accidentally occurs in a datacenter during a fire alarm test. On recovery, the server administrator notices that an external storage array is performing consistency checks on all the volumes configured in the array. Which of the following components of the storage array has MOST likely failed or faulted?

- A. Redundant controller
- B. Cold spare drive
- C. Battery backed cache
- D. Cache memory modules

Answer: C

QUESTION 13

Which of the following is an example of the principle of least privilege and is the MOST secure when granting access to a shared network drive used by the Accounting department?

- A. Grant appropriate permissions to only users in the Accounting department for both the share and NTFS.
- B. Grant all users full control permissions for the share only.
- C. Grant the Accounting department full control for the share and appropriate NTFS permissions.
- D. Grant modify permissions to the Accounting department and deny NTFS permissions to all other users.

Answer: A

QUESTION 14

Which of the following methods should a technician perform to properly clear a hard drive before disposal?

- A. Delete the FAT

- B. Zero all block sectors
- C. Delete the partition
- D. Zero the NTFS journal

Answer: B

QUESTION 15

A server unexpectedly shut down as a result of overheating. An alert was sent to the administrator's email address but the administrator was away from the workstation when the alert arrived. Which of the following would have been a more effective method for sending the alert notification?

- A. Broadcast messages
- B. SMS messages
- C. Telephone calls
- D. Console notifications

Answer: B

QUESTION 16

A server technician in a datacenter configures a daemon to monitor the battery health in a UPS. Over a two day time period, the daemon generates a warning message. Which of the following represents the FIRST action that should be taken by the server technician?

- A. Perform a test on the UPS batteries.
- B. Immediately replace the UPS batteries.
- C. Move the servers connected to the UPS to another existing UPS.
- D. Immediately replace the UPS with a new UPS.

Answer: A

QUESTION 17

A server technician is performing a server installation. This server must be able to resolve host names for users running a variety of client operating systems. At a minimum, which of the following services should be enabled on the new server? (Select TWO.)

- A. NAT
- B. DNS
- C. LDAP
- D. WINS
- E. SNMP
- F. DHCP

Answer: BD

QUESTION 18

A technician has finished installing the operating system on a new server and needs to provide IP addressing information. The server will be connected to the DMZ network. Devices on the network use a default gateway address of 192.168.55.1. Which of the following is a valid IP address for a server in the DMZ network?

- A. IP: 192.168.55.1, NETMASK 255.255.255.0
- B. IP: 192.168.55.5, NETMASK 255.255.255.128

- C. IP: 192.168.55.155, NETMASK 255.255.255.128
- D. IP: 192.168.55.255, NETMASK 255.255.255.0

Answer: B

QUESTION 19

Clients cannot connect to the network. A technician determines that port 68 is not open. Which of the following protocols is being blocked?

- A. POP3
- B. DNS
- C. LDAP
- D. DHCP

Answer: D

QUESTION 20

Which of the following protocols can be used to perform configuration management on a remote server using the MOST secure methods? (Select TWO.)

- A. SMTP
- B. DHCP
- C. RDP
- D. SSH
- E. TELNET
- F. DNS

Answer: CD

QUESTION 21

A technician receives an error message when trying to boot the server stating the operating system was not found. Change management logs indicate a new hard drive backplane was installed in the server last night. Which of the following should the technician do FIRST when troubleshooting the issue?

- A. Check system board cables
- B. Rebuild RAID array
- C. Reinstall server OS
- D. Remove newly installed hardware

Answer: A

QUESTION 22

A database server stops responding to requests, and the administrator suspects that the server is experiencing memory faults during heavy network traffic and database access. Which of the following is the FIRST troubleshooting step?

- A. Check the security log.
- B. Check the application logs.
- C. Check the debug report.
- D. Check the POST error log.

Answer: B

QUESTION 23

A technician is troubleshooting a Linux server and wants to inspect the free disk space on the /dev/sda partition of the system. Which of the following command line tools should the administrator run to view available disk space on the partition?

- A. dd
- B. du
- C. ls
- D. df

Answer: D

QUESTION 24

A system administrator notices that a server is consistently getting slower and less responsive the longer it has been since the last reboot. Once the server is rebooted, the system performs at the expected baseline, but starts slowing down again until the system is unresponsive. Which of the following is the MOST likely cause of this problem?

- A. OS performance misconfiguration
- B. Service/application memory leak
- C. Incorrect server resource specifications
- D. Corrupted application files

Answer: B

QUESTION 25

Users on a network segment report that they are unable to connect to a newly installed file server. The file server IP address settings are as follows:

IP address: 10.0.10.254
Subnet Mask: 255.255.255.0
Default Gateway: 10.10.10.1

Which of the following changes should the server administrator make?

- A. Change the IP address on the server to 10.10.0.254.
- B. Change the IP address on the server to 10.10.10.254.
- C. Change the default gateway on the server to 10.10.10.254.
- D. Change the subnet mask on the server to 255.255.0.0.

Answer: B

QUESTION 26

A technician is troubleshooting an issue with a new server, which is unable to download OS patches from the Internet. The technician reviews the following configuration:

Ethernet Adapter Local Area Connection:
- Connection-specific DNS Suffix: comptia.org
- Link-local IPv6 Address: fe80::c95:3f59:1a01:c050::
- IPv4 Address: 192.168.10.20
- Subnet Mask: 255.255.255.128
- Default Gateway: 192.168.10.129

Which of the following is the reason that the server is unable to connect to the Internet?

- A. Incorrect default gateway
- B. Invalid IPv6 address
- C. Wrong subnet mask
- D. Misconfigured DNS suffix

Answer: A

QUESTION 27

A new DHCP server is placed on a network segment during off hours. When work resumes, users on a different network segment report connectivity issues. Users on the same network segment report no connectivity issues. Which of the following is the MOST likely reason for the connectivity issues?

- A. The DHCP server was configured without specifying a WINS server address for the users.
- B. The DHCP server was configured without specifying a DNS server address for the users.
- C. The DHCP relay agent was not configured on the adjacent network segment.
- D. The DHCP server was configured to use private IP addressing to all network segments.

Answer: C

QUESTION 28

A server administrator is notified that all three hard disks in a server array have failed. Which of the following is the MOST likely cause?

- A. Incompatible BIOS
- B. Backplane failure
- C. Cache battery failure
- D. Incorrect firmware version

Answer: B

QUESTION 29

When troubleshooting a failed backup, a technician runs the backup using the same tape but on a different tape drive in the same tape library. The backup fails again. Which of the following should be the FIRST item the technician should examine as a failure?

- A. Tape drive
- B. Tape library
- C. Tape media
- D. Tape capacity

Answer: C

QUESTION 30

An administrator is securing a secure web server by disabling ports. After completing this process, clients cannot access the secure web server. The administrator should now go back and verify whether which of the following ports is enabled?

- A. 23
- B. 389
- C. 443
- D. 445

Answer: C

QUESTION 31

A server technician is investigating a potential data breach. It is believed that the breach occurred via telnet access. Which of the following could validate this hypothesis?

- A. Port scanner
- B. Cipher tools
- C. Checksum analyzer
- D. TDR

Answer: A

QUESTION 32

Users report that an application is unable to connect to a server on the same network segment. Which of the following is the MOST likely reason?

- A. The external firewall is preventing access to the server.
- B. The DMZ is incorrectly configured.
- C. The syslog server detects malware on the server.
- D. The application is using a port that is closed on the server.

Answer: D

QUESTION 33

A technician is replacing a faulty NIC in a server. According to best practices, which of the following should be used to configure the IP address on the server?

- A. DNS reservation
- B. DHCP IP address
- C. DHCP reservation
- D. Static IP address

Answer: D

QUESTION 34

A technician needs to add a processor to a server. Which of the following specifications should the technician examine? (Select THREE.)

- A. Bus multiplier
- B. Processor speed
- C. Socket type
- D. Processor stepping
- E. L3 cache size
- F. Thermal specifications

Answer: BCD

QUESTION 35

A server's runtime during power outages is too short to shut down properly. A system technician is asked to remediate the problem. Which of the following would be the result of adding additional

batteries to the UPS?

- A. Increased load balancing
- B. Extended uptime
- C. Greater efficiency
- D. Increased power output

Answer: B

QUESTION 36

A system administrator wants to assure that a server is responsive. Which of the following networking tools should the administrator use to verify network connectivity?

- A. arp
- B. netstat
- C. ipconfig
- D. ping

Answer: D

QUESTION 37

Two new applications have been added to a working server. The server response is now very slow. An appropriate plan of action is to: _____.

- A. uninstall each server application and reinstall the two new applications
- B. install another application to see if this improves the server response time
- C. install antivirus and malware software
- D. uninstall the newly installed applications one at a time

Answer: D

QUESTION 38

Which of the following is the core software application that manages computer virtualization?

- A. Hypervisor
- B. Hyperthreading
- C. Console
- D. KVM

Answer: A

QUESTION 39

Which of the following is a requirement for a server to allow guests to be installed on a hypervisor host?

- A. Processors with multiple cores
- B. Processors with available cache
- C. Processors that support virtualization
- D. Processors that support hyperthreading

Answer: C

QUESTION 40

Swap space or page file is reserved on the: _____.

- A. motherboard
- B. memory
- C. hard disk
- D. CPU

Answer: C

QUESTION 41

An administrator needs to deploy 1000 servers in a short period of time. Which of the following deployment methods will expedite the OS installations?

- A. Use disk duplicating software.
- B. Use USB disk images to deploy servers.
- C. Use a disk replicator.
- D. Use PXE boot to retrieve an image.

Answer: D

QUESTION 42

Which of the following are required characteristics of database servers in high transaction environments? (Select THREE.)

- A. Two-factor authentication
- B. High bandwidth
- C. Higher RPM drives
- D. Load balancing
- E. High latency
- F. Hotswappable drives
- G. Encryption

Answer: BCD

QUESTION 43

A network administrator is installing additional devices on the network. Currently, the network segment is utilizing all allocated IP addresses. If there are additional addresses available, which of the following would be BEST for the network administrator to perform to accommodate the new network devices?

- A. Create a new DHCP scope for the network segment in question.
- B. Configure the DHCP server for IPv6.
- C. Configure the network to use NAT for the network segment in question.
- D. Increase the size of the DHCP scope for the network segment in question.

Answer: D

QUESTION 44

Which of the following allows virtual machines to share the NIC of the host?

- A. Virtual LANs

- B. NAT
- C. Bridging
- D. Virtual NICs

Answer: C

QUESTION 45

An administrator is asked to change a configuration using a GUI on a Windows server, but does not have access to a KVM. Which of the following is BEST to make the change?

- A. SSH
- B. SCP
- C. RDP
- D. NTP

Answer: C

QUESTION 46

Several of the finance department computers are experiencing timeouts while in their financial program. The program will not open or close; however, the previous day the program was running without issues. Which of the following is MOST likely the cause of this problem?

- A. Service priority
- B. Rogue processes
- C. Firewall problem
- D. Processor affinity

Answer: B

QUESTION 47

A system administrator is troubleshooting a network connectivity issue and runs ipconfig/all on the host. The command returns the following:

IPv4 Address: 169.254.0.12
Subnet mask: 255.255.0.0

The client is configured for DHCP. Which of the following commands should be run on the client to resolve this issue? (Select TWO.)

- A. ipconfig/release
- B. tracert
- C. ipconfig/flushdns
- D. ipconfig/renew
- E. ipconfig/showclassid
- F. nslookup

Answer: AD

QUESTION 48

A technician is assigned a task to configure a new server with six hard drives. The senior administrator requested the technician utilize the drives for maximum fault tolerance. Which of the following RAID configurations should the technician use?

- A. RAID 3

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

Answer: C

QUESTION 49

Two RAID arrays are created from eight disks. One is created using RAID 6, the other is created using RAID 5 with a hot spare. Which of the following is the operational difference between these configurations?

- A. RAID 6 has the ability to recover from two disks simultaneously failing.
- B. The RAID 5 array will be significantly faster than the RAID 6 array.
- C. The RAID 6 array will be significantly faster than the RAID 5 array.
- D. RAID 6 has a higher storage capacity than RAID 5.

Answer: A

QUESTION 50

A datacenter technician encounters a power receptacle labeled NEMA L5-30. Which of the following powers is this socket rated for?

- A. 115v 30 amp
- B. 208v 30 amp
- C. 220v 1 phase
- D. 440v 3 phase

Answer: A

QUESTION 51

A technician is experiencing overheating on a rack mounted server. After powering off and removing the cover of the server, a large amount of dust is noticed on one of the fans. After cleaning out the dust and powering the server back on, the server is still overheating. Which of the following would BEST explain this issue?

- A. The power supply has failed.
- B. The server is using excessive power.
- C. The hard drives are running too hot.
- D. Some of the cooling fans are defective.

Answer: D

QUESTION 52

A technician notices a rack mounted server is beeping without booting up. The NEXT step to diagnose this issue would be to: _____.

- A. continue to power cycle the server until it boots normally
- B. count the beeps and reference the service manual
- C. disable the alarm within the server
- D. install the server into a different rack

Answer: B

QUESTION 53

A server technician has been tasked with purchasing cables and connectors for a new server room. The server room consists of one switch, two servers, and one IP telephone. Which of the following types of cables and connectors should the technician purchase?

- A. Coaxial cable and BNC connectors
- B. Straight through Ethernet cable and RJ-45 connectors
- C. Silver satin and RJ-11 connectors
- D. Crossover Ethernet cable and RJ-11 connectors

Answer: B

QUESTION 54

Which of the following is a basic difference between DAS and NAS?

- A. NAS requires fibre channel; DAS does not.
- B. NAS is faster than DAS when using NFS.
- C. DAS operates its own OS; NAS does not.
- D. DAS is directly connected to a server; NAS is connected via IP networking.

Answer: D

QUESTION 55

A technician is tasked with providing network-based high availability to a pair of identical web servers. Which of the following minimum server NIC configurations fulfills these requirements?

- A. Two physical NICs per server: one NIC configured for multicast and one for broadcast.
- B. One physical NIC per server: each individual NIC configured for network load balancing.
- C. Two physical NICs per server: one NIC for network traffic, and one for web traffic.
- D. One physical NIC per server: each NIC configured with the same MAC and IP address.

Answer: B

QUESTION 56

A system administrator is concerned with employees connecting removable storage to the server to copy sensitive data. Which of the following solutions addresses this concern?

- A. Disable write access
- B. Disable WOL
- C. Disable TPM
- D. Disable physical ports

Answer: D

QUESTION 57

Which of the following is a reason to have a remote cold site readily available in case of a disaster in the primary datacenter?

- A. It provides a company with a redundant location that mirrors the primary datacenter hardware but requires no data restoration.
- B. It provides a company with a backup location to install the necessary equipment to restore critical services.

- C. It provides a company with a backup location equipped with resources necessary for immediate restoration of critical services.
- D. It provides a company with a redundant location that mirrors the primary datacenter hardware and data.

Answer: B

QUESTION 58

A server in a small company functions as a print server. Suddenly it stops sending print jobs to the printers. A technician verifies that the printers are working correctly. Additionally, the print spooler had been restarted and is running on the server, it is accessible from workstations, and it shows as being ready to accept print jobs. Which of the following has MOST likely caused the print server to stop processing print jobs?

- A. The print quota has been exceeded.
- B. The server needs an updated print driver.
- C. The server needs pooling enabled.
- D. The server's hard drive is out of space.

Answer: D

QUESTION 59

A mission critical server has faulted with a dead 66 MHz 3.3V PCI-X network interface card. The system administrator has been directed to get the server functional as soon as possible, even if it is connected with less bandwidth. There are no onsite spare cards available and the vendor does not expect to have the parts for at least a week. Which of the following immediately available NICs could be substituted instead?

- A. 33 MHz 3.3V PCI
- B. 66 MHz 5V PCI
- C. 266 MHzx 3.3V PCI-X
- D. 533 MHz 5V PCI-X

Answer: A

QUESTION 60

Which of the following is the MOST energy efficient way of powering equipment within a datacenter with a large UPS battery bank?

- A. 48V DC
- B. 120V single-phase
- C. 240V AC 3-phase
- D. 480V 3-phase

Answer: A

QUESTION 61

A server is giving a fault code indicating that a RAM chip is producing errors and should be replaced. According to best practices, which of the following is the proper sequence of steps to replace the faulty module?

- A. Attach ESD protection, open server case, replace module, close server case, baseline configuration.
- B. Open server case, baseline configuration, attach ESD protection, replace module, close server case.

- C. Attach ESD protection, baseline configuration, open server case, replace module, close server case.
- D. Open server case, replace module, attach ESD protection, close server case, baseline configuration.

Answer: A

QUESTION 62

Which of the following protocols is used primarily for monitoring and managing network devices?

- A. SNMP
- B. SMTP
- C. FTPS
- D. NTP

Answer: A

QUESTION 63

A number of users are indicating that access to a network file server is responding very slowly when reading or writing to the share. The server administrator notes that a drive has failed in a four-disk RAID 5 array. The array is running in a degraded state because no hot spare was configured. After replacing the failed disk, which of the following steps would be BEST to take to prevent slow response after a drive failure?

- A. Add a drive to the array, but do not configure it as a hot spare.
- B. Add an additional hard drive, and convert the volume to a RAID 6 configuration.
- C. Add an additional hard drive, and convert the volume to a RAID 10 configuration.
- D. Add a drive to the array, and configure it as a cold spare.

Answer: B

QUESTION 64

A server has been assigned a role of mail server. Which of the following services will be installed as a result of this selection?

- A. SNMP
- B. SMTP
- C. TCP
- D. DHCP
- E. SFTP

Answer: B

QUESTION 65

Which of the following server types stores the list of network usernames and passwords required for authentication?

- A. File server
- B. Directory
- C. DHCP
- D. SNMP

Answer: B

QUESTION 66

A company is being audited by its operating system vendor. The company needs to report the number of operating systems in use, the versions of the operating systems, and the product keys. Which of the following will be MOST helpful in passing the audit?

- A. Asset management documentation
- B. Change management logs
- C. Service manuals
- D. Server baselines

Answer: A

QUESTION 67

A system administrator notices that there is a low level of available storage space on a file server. Which of the following should be implemented to limit the amount of storage space users can utilize on the file server?

- A. Disk shadowing
- B. Disk compression
- C. Disk quota
- D. Disk indexing

Answer: C

QUESTION 68

Which of the following is the MOST secure to erase data before disposal of server hard drives?

- A. Hard wipe
- B. Reformat
- C. Degaussing
- D. Delete partitions

Answer: C

QUESTION 69

A technician is configuring switches with SFP ports on multiple floors in a building. A switch on the first floor must be connected to a switch on the second floor for trunking VLAN traffic. Which of the following would be the MOST appropriate cable type for the technician to use?

- A. Multimode fiber
- B. Coaxial cable
- C. CAT5e rollover
- D. CAT6 straight through

Answer: A

QUESTION 70

A system administrator is tasked to setup a database server with failover clustering feature enabled. One of the requirements is to have one database running at all times with data being synchronized and replicated to the idle database in case the primary database server fails. Both servers will be monitored by a witness on a LUN. Which of the following cluster techniques should be implemented to meet these requirements?

- A. Active/Active
- B. Active/Passive
- C. Single Local Quorum
- D. Passive/Passive
- E. Shared Multiple Quorum

Answer: B

QUESTION 71

A server technician is tasked to replace a RAID controller battery on a server. The server technician has no prior experience replacing a RAID controller battery. Which of the following should the server technician do to obtain the required knowledge or procedures to replace the battery?

- A. Review software specifications
- B. Review architecture diagrams
- C. Review service manuals
- D. Review service logs

Answer: C

QUESTION 72

In a Windows environment, a user is able to access the network folder and open items, but is not able to delete anything. Which of the following folder permissions does the user require?

- A. Execute
- B. Read
- C. Write
- D. Modify

Answer: D

QUESTION 73

A system technician is tasked with destroying several hard drives that contain PII. Which of the following would be the BEST method for disposing of the drives?

- A. Shred the hard drives.
- B. Complete a hard wipe.
- C. Perform a soft wipe.
- D. Delete the partition table.

Answer: A

QUESTION 74

A technician needs to install six blade servers. Which of the following MUST a technician install along with the blades?

- A. Blade rail kits
- B. Blade shelves
- C. Blade enclosure
- D. Blade station

Answer: C

QUESTION 75

A server repeatedly crashes with a BSOD when running an application that uses a high amount of system resources. Which of the following hardware components MOST likely needs to be checked by a technician?

- A. Memory
- B. Hard drive
- C. RAID controller
- D. CPU

Answer: A

QUESTION 76

In authentication, which of the following represents something you have?

- A. Password
- B. Fingerprint
- C. Token
- D. PIN

Answer: C

QUESTION 77

A technician troubleshooting a mail server determines that the server is low on available hard drive space and needs an additional hard drive installed. The server will need to be offline for the hardware installation. Which of the following troubleshooting steps should the technician do NEXT?

- A. Notify impacted users of the scheduled maintenance.
- B. Implement one change at a time.
- C. Collect additional information.
- D. Document findings, actions, and outcomes.

Answer: A

QUESTION 78

In a PKI, which of the following represents the top level of a certificate authority?

- A. Root CA
- B. Intermediate CA
- C. Subordinate CA
- D. Delegated CA

Answer: A

QUESTION 79

A server has a faulty hard drive, and the administrator needs to replace the hard drive while it is running. The server needs to support which of the following drives?

- A. Hot swappable

- B. Hot spare
- C. SAS
- D. USB
- E. Firewire

Answer: A

QUESTION 80

After successfully authenticating to a remote server, a server administrator is presented with an interactive command line with no graphical interface. Which of the following protocols did the administrator MOST likely use to securely connect to the remote server?

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

Answer: A

QUESTION 81

A company has 700 servers installed in 50 server racks in the datacenter. The Chief Technology Officer issued a memorandum to the IT department with a directive to reduce power and cooling consumptions by 50% in the datacenters. Which of the following should the system administrators recommend?

- A. Implement 208V 3-phase servers
- B. Implement hot aisle/cold aisle
- C. Virtualize the servers in the datacenter
- D. Replace each server with a blade server

Answer: C

QUESTION 82

Which of the following protocols can be used to query for host, user, and group information for clients?

- A. LDAP
- B. DNS
- C. DHCP
- D. SNMP
- E. SCP

Answer: A

QUESTION 83

A technician is backing up 10 GB of data on a file server to a 250 GB external USB hard drive. After 4 GB has been backed up, the software generates an error that the size of the backup exceeds the file limit. Which of the following file system types is being used?

- A. FAT32
- B. NTFS
- C. VMFS

D. ZFS

Answer: A

QUESTION 84

A system administrator is tasked to enable authentication on a web server's login page. One of the requirements for the web server is to encrypt authenticated sessions over HTTP protocol for all static HTML pages. Using the information supplied, which of the following default port numbers should be used to satisfy these requirements?

- A. 53
- B. 8080
- C. 143
- D. 443

Answer: D

QUESTION 85

An administrator decides to implement access control techniques to secure a datacenter. Which of the following would be the STRONGEST technique for the administrator to use?

- A. Multifactor authentication
- B. RFID chip
- C. Cipher locks
- D. Bollards

Answer: A

QUESTION 86

An administrator needs to create two websites. One website must only be used by internal users and the other website must be a corporate website accessible externally by customers. Which of the following website types is needed?

- A. Extranet for users and intranet for customers
- B. Internet for users and extranet for customers
- C. Intranet for users and extranet for customers
- D. Extranet for users and extranet for customers

Answer: C

QUESTION 87

A host server in a small business environment does not have virtual switching configured. The NIC on a guest is configured with an IP address that is on a different subnet from the host server. Which of the following would MOST likely happen in this case?

- A. The guest will not have network access to the host or network resources.
- B. The guest would have access to all network resources.
- C. The guest would have network access to everything but the host.
- D. The guest will have network access to the host server.

Answer: A

QUESTION 88

A system administrator has a database server that crashes at random times. No changes have been made to either the server's software or hardware. Which of the following is the FIRST step the administrator should take towards resolving this issue?

- A. Establish an action plan.
- B. Perform a root cause analysis.
- C. Document the findings.
- D. Identify the problem and scope.

Answer: D

QUESTION 89

An administrator was tasked to enforce disk quotas on the Windows file server. The administrator allocated 1 GB of space to each user. A month later, the users were still able to save beyond 1 GB. Which of the following check boxes should have been selected?

- A. Enable compression
- B. Prohibit read/write if limit is reached
- C. Deny access if limit is reached
- D. Log an event if disk space is reached

Answer: C

QUESTION 90

A network administrator installs a new web server and notices that the server was configured with one quad-port NIC. In order to properly provision the hardware resources, how should the NIC be configured?

- A. Assign at least one IP address to each port
- B. Assign multiple IP addresses to one port
- C. Assign one IP address to the quad-port NIC
- D. Assign a single IP address to all four ports

Answer: A

QUESTION 91

Which of the following graphically depicts the movement of information within a system?

- A. Site survey diagram
- B. Dataflow diagram
- C. Architectural diagram
- D. Network diagram

Answer: B

QUESTION 92

A system administrator has just performed a backup. Which of the following should the administrator perform to easily identify the backup tape?

- A. Label the tape
- B. Mount the tape in the drive

- C. Place the tape in the rack
- D. Update the site log

Answer: A

QUESTION 93

A technician is tasked with creating a test system containing non-critical data. The technician has limited hardware, but needs maximum performance. Which of the following RAID levels should the technician use?

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

Answer: A

QUESTION 94

An older server has performance problems writing files to a RAID array. After checking for failed drives, no problems are found. Which of the following should be checked NEXT?

- A. The cooling system
- B. The cache battery
- C. The hard drive tray
- D. The hard drive cables

Answer: B

QUESTION 95

Which of the following factors would cause a technician to select a hard drive over an SSD as a primary storage medium?

- A. Speed
- B. Power consumption
- C. Form factor
- D. Cost

Answer: D

QUESTION 96

Which of the following describes a rack mounted server that is 2 rack units (2U) in height?

- A. 2.5 inches (6.35 cm)
- B. 3.0 inches (7.62 cm)
- C. 3.5 inches (8.89 cm)
- D. 4.0 inches (10.16 cm)

Answer: C

QUESTION 97

Which of the following describes an alternate site where only the infrastructure (building, power, cooling) has been established?

- A. Mirror site
- B. Warm site
- C. Hot site
- D. Cold site

Answer: D

QUESTION 98

An administrator has a UPS rated at 200 amps per hour. Which of the following is the maximum runtime of this UPS when hooked up to a server drawing 400 amps per hour?

- A. 15 minutes
- B. 30 minutes
- C. 60 minutes
- D. 120 minutes

Answer: B

QUESTION 99

A technician is tasked by an administrator to patch a virtual machine. The technician needs to ensure that in case of failure, recovery of the virtual machine will be possible. Which of the following recovery principles should the technician employ?

- A. Incremental
- B. Snapshot
- C. Bare metal
- D. Selective

Answer: B

QUESTION 100

An administrator would like to determine what port and services are running locally on a server. Which of the following Windows command lines and shell tools should the administrator use? (Select THREE.)

- A. get-services
- B. show ports
- C. sc query
- D. netstat
- E. vmstat
- F. show services

Answer: ACD

QUESTION 101

Which of the following is the number of 7-inch high servers that can be installed in a 42U rack?

- A. 4
- B. 5
- C. 10

D. 12

Answer: C

QUESTION 102

A server administrator has been given the following information from the network team in order to configure IP addresses on a new server:

Network Address: 199.90.10.32/28

The network team also instructed the server administrator to use the LAST usable address on the given network. Which of the following IP address/subnet mask combinations should the server administrator use?

- A. 199.90.10.49, 255.255.255.240
- B. 199.90.10.47, 255.255.255.224
- C. 199.90.10.47, 255.255.255.240
- D. 199.90.10.48, 255.255.255.240

Answer: C

QUESTION 103

A technician performs monthly backups on a file server to a NAS device that can hold 1TB of data. The size of the monthly backups has been as follows:

Month 1 = 50GB

Month 2 = 65GB

Month 3 = 80GB

Starting with Month 1, based on the current rate of growth, in how many months will the NAS run out of available storage space?

- A. 4
- B. 5
- C. 9
- D. 11

Answer: C

QUESTION 104

A technician is installing a rack mounted server into a rack in a datacenter with CRAC units and blanking panels. Blanking panels are used to: _____.

- A. lower the UPS power requirements
- B. limit airflow leakage in the rack
- C. limit the amount of servers that will fit into the rack
- D. color match the server color

Answer: B

QUESTION 105

An administrator has been tasked with consolidating six individual servers into one blade enclosure. The administrator completed the task successfully. A week later, all of the blades would not boot properly. Which of the following would MOST likely be causing this issue?

- A. The blade servers are faulty.

- B. The network module on the blade enclosure is faulty.
- C. The backplane of the enclosure is faulty.
- D. The management modules in the enclosure are faulty.

Answer: C

QUESTION 106

An administrator purchases a new server, which contains only one Xeon processor. This server is also known as a: _____.

- A. load balancing server
- B. multicore server
- C. redundant server
- D. single-core server

Answer: B

QUESTION 107

A technician is concerned about memory data corruption in a server. Which of the following memory types should be considered?

- A. Static
- B. SDRAM
- C. Dynamic
- D. ECC

Answer: D

QUESTION 108

A server administrator wants to upgrade the memory of the server using two memory modules. The server has two banks of memory with the following slots available: A2, A3, A4, B2, B3, and B4. In which of the following two slots should the administrator install the additional RAM?

- A. Slots A2 and A3
- B. Slots A2 and B2
- C. Slots A2 and B4
- D. Slots B2 and B3

Answer: B

QUESTION 109

A technician is upgrading the memory in a server. The server requires DDR3 Registered DIMMs. The server has four banks of three slots for memory and currently there is one 2 GB module in each bank. When the technician attempts to add eight more 4 GB modules of DDR3 unbuffered ECC memory, the memory does not fit in the slots. Which of the following is the cause of this issue?

- A. In a bank, 2 GB and 4 GB memory cannot be mixed.
- B. The server cannot use ECC memory.
- C. The server requires fully buffered memory.
- D. The total memory on the server cannot exceed 24 GB of RAM.

Answer: C

QUESTION 110

Which of the following power plug types would MOST likely be found in a medical facility?

- A. Tip/Ring/Sleeve
- B. Speed lock
- C. Tip/Ring
- D. Twist lock

Answer: D

QUESTION 111

Which of the following is a benefit of using raised floors with specially configured tiles in a server room?

- A. To provide for heat dissipation using forced air through the sub-floor.
- B. To provide for liquid cooling systems through the sub-floor.
- C. To provide a location for baffles or shrouds in the sub-floor.
- D. To provide a location for redundant power supplies in the sub-floor.

Answer: A

QUESTION 112

A technician is installing a 2U rack mount server. The necessary rack space height to accommodate the server is: _____.

- A. 2.5 inches (0.064 meter)
- B. 3.0 inches (0.076 meter)
- C. 3.5 inches (0.089 meter)
- D. 4.0 inches (0.10 meter)

Answer: C

QUESTION 113

A system technician is asked to create a test environment that will consist of 45 computers and a file server. Which of the following types of servers is BEST suited for IP management in the lab network?

- A. Domain Name Service
- B. Window Internet Naming Services
- C. Dynamic Host Configuration Protocol
- D. Routing and Remote Access

Answer: C

QUESTION 114

Which of the following server types is commonly used for authentication and credential storage?

- A. File server
- B. Directory server
- C. Web server
- D. DNS server

Answer: B

QUESTION 115

Which of the following services provide hostname to IP address resolution? (Select TWO.)

- A. NTP
- B. NAT/PAT
- C. DHCP
- D. DNS
- E. WINS
- F. LDAP

Answer: DE

QUESTION 116

A server technician needs to access a remote Unix server for administration. The technician has requested that ports 23, 25, and 161 be opened on the router. After the ports are opened, the technician is still unable to connect to the Unix server. Which of the following ports should be opened on the server to allow for remote administration?

- A. TCP 21
- B. TCP 22
- C. UDP 69
- D. TCP 3389

Answer: B

QUESTION 117

While performing routine testing of a hot standby site located at a remote hosting center, a system administrator is unable to access one of the server operating systems to verify functionality. Which of the following is MOST applicable to access the host?

- A. KVM over IP
- B. RDP over HTTP
- C. Secure shell
- D. Serial console access
- E. VNC

Answer: A

QUESTION 118

An administrator needs to control servers locally via a console. The administrator wants a rack mounted solution for easy access. Which of the following should be installed?

- A. iDRAC
- B. KVM
- C. ILO
- D. RDP

Answer: B

QUESTION 119

A technician is tasked with creating servers that are fault tolerant and highly available. Which of the following would be the BEST solution for this task?

- A. Load balancing
- B. Virtualization
- C. Clustering
- D. Round robin

Answer: C

QUESTION 120

A technician is asked to troubleshoot a hardware alert on a server. The server is up and running and all users can access their data. Which of the following could the technician use to find the failed component? (Select TWO.)

- A. LEDs
- B. Dataflow diagram
- C. Power supply tester
- D. LCD messages
- E. Cabling diagram

Answer: AD

QUESTION 121

A server administrator is creating a design for a new datacenter. The servers should be configured for maximum availability and also provide caching for user information requests. Which of the following techniques should be used?

- A. Active/Passive
- B. Round robin
- C. Heartbeat
- D. Active/Active
- E. Passive/Passive

Answer: D

QUESTION 122

A company is planning to replace old hardware and needs to budget accordingly. Which of the following is likely to contain a list of end of life servers?

- A. The server's warranty information.
- B. The server's life cycle schedule.
- C. The asset management database.
- D. The software licensing agreement.

Answer: C

QUESTION 123

Historical data shows that on average, a server is likely to fail once every nine months. A company has purchased 24x7, four hour hardware response to replace a server's failed hardware. Additionally, the company can restore a server to its operational status within six hours from the

time the failed hardware has been replaced. Which of the following describes this scenario?

- A. The company's MTTR is ten hours.
- B. Individual servers have 99.999% uptime.
- C. Service can be restored within four hours.
- D. The operational SLA is six hours.

Answer: A

QUESTION 124

A technician would like to restrict when internal hardware components on the server are accessed. Which of the following server hardening techniques should the technician implement?

- A. Intrusion detection
- B. BIOS password
- C. Chassis lock
- D. Disable WOL

Answer: C

QUESTION 125

An email administrator is tasked to setup a Linux mail server. One of the requirements is to close all ports except SSH, HTTPS, SMTP, POP3, and IMAP4. Which of the following commands should be used to see which ports are currently open on the mail server? (Select TWO.)

- A. lsof
- B. netstat
- C. ipconfig
- D. traceroute
- E. ping
- F. dig

Answer: AB

QUESTION 126

Which of the following authentication protocols could be used to authenticate network administrators at a datacenter to manage switches over a remote SSH connection? (Select TWO.)

- A. LDAP
- B. TACACS
- C. RADIUS
- D. SNMP
- E. IPSec
- F. MSCHAP

Answer: BC

QUESTION 127

An administrator is building a web server to host an online banking application. The server should not have access to the internal network, and only ports that are used by the application should be opened. Which of the following MUST be implemented to meet the business requirements?

- A. Add the server to the internal network and use IPSec to encrypt communication between the web server and other devices.
- B. Use an ISA server to block access to the internal network.
- C. Use VPN to block all ports that are not used by the application.
- D. Use the company firewall to block all ports that are not used by the application.

Answer: D

QUESTION 128

A server administrator is configuring access control on a file server for an organization. The Human Resources manager is taking a leave of absence for three months, during which time an interim Human Resources manager will take over the duties of the position. Which of the following types of access control should be configured on the file server?

- A. MAC
- B. CBAC
- C. DAC
- D. RBAC

Answer: D

QUESTION 129

Which of the following methods should be used when classified or sensitive data is stored on a server?

- A. Directory encryption
- B. Whole disk encryption
- C. File encryption
- D. Partition encryption

Answer: B

QUESTION 130

A technician working in the datacenter has finished racking a new 4U server into a new rack. Which of the following should the technician do to allow for hot/cold aisle containment?

- A. Close the perforated floor tile in front of the new rack.
- B. Reset the rack temperature and humidity control.
- C. Install blanking panels in the rack.
- D. Lower the temperature of the data center HVAC.

Answer: C

QUESTION 131

Two technicians are asked to install a 6U server at location U25 in a 40U server rack. The rack has been properly stabilized to the floor. Which of the following tools would BEST be used to install the server?

- A. A static strap.
- B. A server lift.
- C. A PDU.
- D. A UPS.

Answer: B

QUESTION 132

A new file server is added to an existing network. Some users are able to connect to this server, while others are not. A partial network configuration on the server shows the following:

```
Link local: fe80::3000:aff:dea6:f8c::64
```

Which of the following BEST explains why some users cannot connect to the server?

- A. The users' workstations are configured to use DHCP.
- B. The users' workstations do not support IPv6.
- C. The users' workstations are not on the same network as the server.
- D. The user's workstations are configured with an incorrect subnet mask.

Answer: B

QUESTION 133

A server technician is updating the operating system on a server. Currently, the server is running the following services:

DHCP

WINS

DNS

HTTP

The updated server will be used to allow clients to access Web services, resolve host names to IP addresses for mobile iOS clients, and provide network access to thin clients running a Linux operating system. Which of the following services can be removed?

- A. DHCP
- B. WINS
- C. DNS
- D. HTTP

Answer: B

QUESTION 134

A server administrator is bringing a new host online. After the initial OS installation and configuration, the administrator is unable to reach hosts on another subnet. The administrator is able to ping and access other hosts on the same subnet. Which of the following should the administrator check FIRST?

- A. Default gateway
- B. Netmask
- C. DNS A (AAAA) record
- D. DNS reverse lookup entry

Answer: A

QUESTION 135

Which of the following services provides users with directory services?

- A. IMAP
- B. LDAP

- C. SFTP
- D. DHCP
- E. DNS

Answer: B

QUESTION 136

In order for a server to fully function as a web server, which of the following default ports should be open? (Select TWO.)

- A. 22
- B. 80
- C. 443
- D. 445
- E. 631
- F. 8080

Answer: BC

QUESTION 137

Which of the following default ports should be open on a server for remote administration?

- A. TCP 25
- B. TCP 389
- C. TCP 3128
- D. TCP 3389

Answer: D

QUESTION 138

Employees working for a company were harmed by toxic fumes during a fire. To prevent this from reoccurring, which of the following cable types is SAFEST to use?

- A. CAT6 cables
- B. Plenum cables
- C. Fiber cables
- D. Coaxial cables

Answer: B

QUESTION 139

The shortest time to recovery method in the event of a complete datacenter failure is to utilize a: _____.

- A. warm site
- B. hot site
- C. cold site
- D. private cloud
- E. hybrid cloud

Answer: B

QUESTION 140

Which of the following replication methods is MOST appropriate when integrating data from multiple remote offices?

- A. Server to client
- B. Server to server
- C. Site to site
- D. Disk to disk

Answer: C

QUESTION 141

Server A hosts a mission-critical business application. The server has one disk and one NIC. The administrator has been asked to implement a solution to meet the business requirement that the application must maintain high availability, even in case of a hardware failure. Which of the following BEST meets this requirement?

- A. Configure failover clustering using Server A and a new server.
- B. Add multiple disks on the server and configure RAID 5.
- C. Add an additional NIC and configure the NIC as standby.
- D. Move the application to another server that has more resources.

Answer: A

QUESTION 142

A user accidentally deleted a critical file. A technician tries to restore it from tape backup but receives an error that the file does not exist on the tape. Which of the following should the technician do FIRST?

- A. Verify that the correct tape is in the tape drive.
- B. Re-index the tape library.
- C. Schedule a differential backup to run now.
- D. Update the tape drive firmware.

Answer: A

QUESTION 143

An administrator is validating disaster recovery mechanisms and wants to ensure backup data is usable and accurate. Which of the following should the administrator do?

- A. Backup verification and test restorability
- B. Label media for all backups
- C. Secure backup in safe location
- D. Keep all backups onsite close to the server

Answer: A

QUESTION 144

Users on multiple network segments report that they are unable to retrieve email from a server. Which of the following commands will allow a server technician to ensure that the email service is running on the server?

- A. ifconfig
- B. ipconfig
- C. nbtstat
- D. netstat

Answer: D

QUESTION 145

A technician has completed the installation and configuration of a third email server. The technician has configured the firewall to permit email traffic, but the mail is only being received by the two older servers. Which of the following should the technician configure to ensure incoming email will be processed by all three servers?

- A. Enable NTP to ensure all three servers are synchronized.
- B. Configure IMAP on the new mail server.
- C. Add the DNS server option in DHCP.
- D. Update the MX record in DNS.

Answer: D

QUESTION 146

A technician has connected a previously formatted ext4 eSATA drive to a Linux server. Given the following output:

```
Disk /dev/sdb: 1000.2 GB, 1000204886016 bytes+  
255 heads, 63 sectors/track, 382818 cylinders, total 1953525168 sectors+  
Units = sectors of 1 * 512 = 512 bytes+  
Sector size (logical/physical): 512 bytes / 512 bytes+  
I/O size (minimum/optimal): 512 bytes / 512 bytes+  
Disk identifier: 0x0009f31a+  
Device Boot Start End Blocks Id System+  
/dev/sdb1 * 20481 953525168 976761560 83 Linux+
```

Which of the following commands should the technician use to make the partition available under /data/drive0?

- A. fdformat -type Linux /dev/sdb1 -d /data/drive0
- B. ext2 0x0009f31a /data/drive0
- C. net use /data/drive0 /dev/sdb
- D. mount /dev/sdb1 /data/drive0
- E. fdisk -l /data/drive0

Answer: D

QUESTION 147

An administrator sees a message in the system console that a drive is bad in the single-volume JBOD storage array. A few minutes later, a user calls the help desk to report an inability to read a file from a mapped drive. Which of the following should the administrator do?

- A. Swap out the failed drive and let the array rebuild.
- B. Allow the array rebuild automatically using the hotspare.
- C. Replace the failed drive and restore the data from the last backup.
- D. Reseat the failed drive and restore the array using the parity drive.

Answer: C

QUESTION 148

A server has recently been configured as a network firewall. After the firewall was configured, users could no longer access a remote server. Which of the following, if properly configured on the firewall, will allow users to have secure access to the remote server? (Select TWO.)

- A. Allow TCP port 21
- B. Allow TCP port 22
- C. Allow TCP port 23
- D. Allow TCP port 25
- E. Allow TCP port 161
- F. Allow TCP port 3389

Answer: BF

QUESTION 149

Multiple users report that an application attempting to open a file retrieved from a server reports that the file is corrupted. Which of the following applications can be used on the server to verify file integrity?

- A. Checksum
- B. Port scanner
- C. Cipher
- D. Anti-malware

Answer: A

QUESTION 150

A new version of the primary operating system used by a company has been released. Due to some significant changes in the OS, a system administrator wants to see which remotely accessible services are enabled by default to assess the security risk prior to upgrading to the new version. Which of the following utilities should the administrator use?

- A. Cipher program
- B. Port scanner
- C. Telnet client
- D. Packet sniffer

Answer: B

QUESTION 151

Which of the following is the height of 1U of space in a server rack?

- A. 1.5 inches (3.8 cm)
- B. 1.75 inches (4.4 cm)
- C. 2 inches (5.1 cm)
- D. 3 inches (7.6 cm)

Answer: B

QUESTION 152

A blade server chassis has two power supplies. Which of the following is a benefit of a technician connecting each power supply to a separate UPS unit?

- A. Quality of service
- B. Fault tolerance
- C. Traffic shaping
- D. Load balancing

Answer: B

QUESTION 153

A blade chassis can hold 16 half-height blades or eight full-height blades. Which of the following is the MAXIMUM number of half-height blades that can be installed in the chassis if six full-height blades are already installed?

- A. 2
- B. 4
- C. 8
- D. 16

Answer: B

QUESTION 154

A technician is asked to install an additional NIC in a server. Which of the following hardware considerations would be BEST for the technician to make?

- A. Power consumption
- B. Bus type and speed
- C. CPU stepping
- D. CAS latency

Answer: B

QUESTION 155

A server technician is replacing a web server in an organization. The new server has two integrated NICs. Which of the following describes how the NICs should be configured for fault protection?

- A. The NICs should be configured separately with one MAC address.
- B. The NICs should be placed into a team with one MAC address.
- C. The NICs should be configured separately with two MAC addresses.
- D. The NICs should be placed into a team with two MAC addresses.

Answer: B

QUESTION 156

A server administrator is implementing disk redundancy in all database servers. Which of the following RAID configurations should the administrator use so that a MINIMUM number of disks are required?

- A. RAID 0
- B. RAID 1

- C. RAID 5
- D. RAID 6

Answer: B

QUESTION 157

A server administrator is configuring a new server for an organization. The server will function as a firewall and proxy server, as well as provide NAT services for other devices on the network. Which of the following BEST describes how the network hardware on the server should be configured?

- A. The server should have at least two NICs: one configured with an IP address on the inside network, and one with an IP address on the outside network.
- B. The server should have at least two NICs: each NIC should be configured with an IP address on the same network segment.
- C. The server requires only one NIC, as the NIC can be configured with two IP addresses: one for the inside network segment, and one for the outside network segment.
- D. The server requires at least three NICs: one configured with an IP address for the intranet clients, one with an IP address on the inside network, and one with an IP address on the outside network.

Answer: A

QUESTION 158

A certain rack mounted blade server chassis needs 3-phase power for operation. There is currently only single-phase power coming into the room. The administrator needs to: _____.

- A. call an electrician to wire the single-phase power into 3-phase power
- B. use a single-phase UPS to power the 3-phase server
- C. call an electrician to see if 3-phase power can be brought into the room
- D. use an adapter to configure the server to use single-phase power

Answer: C

QUESTION 159

Which of the following is the MOST redundant power solution?

- A. Two power supplies, each hooked up to individual legs of one 3-phase circuit.
- B. Two power supplies, each hooked up to the same 1-phase circuit.
- C. Two power supplies, each hooked up to separate 1-phase circuits.
- D. One power supply hooked up to two 1-phase circuits.

Answer: C

QUESTION 160

An administrator is tasked with deploying a server in a telephone switching station. Which of the following voltages will MOST likely be available at the facility?

- A. 48V DC
- B. 120V DC
- C. 220V AC
- D. 440V AC

Answer: A

QUESTION 161

A system administrator is given a server with an existing OS installed and four empty SAS bays. The system administrator is asked to set up a new data drive for testing with 100 GB of data. For the best possible performance, which of the following should the system administrator select for the data storage?

- A. SCSI
- B. SATA
- C. Solid state drive
- D. Flash drive

Answer: C

QUESTION 162

A server administrator has been asked to make recommendations for purchase of a new database server that will be processing all of the company accounts. One area of concern from prior experience is the storage type used by the database server. The server is expected to have a large number of transactions that occur, but will not require a large amount of capacity for the data storage. Given these requirements, which of the following storage criteria are MOST important? (Select TWO.)

- A. Capacity
- B. RPM
- C. IOPS
- D. Seek time and latency
- E. Form factor
- F. Bus width

Answer: CD

QUESTION 163

An administrator has been tasked with making recommendations for purchasing new disks for a low I/O file server. Keeping in mind that budget and capacity are the primary concerns, which the following disk types should the administrator recommend?

- A. SATA
- B. FC
- C. SCSI
- D. SAS

Answer: A

QUESTION 164

When looking at an organization's file server configuration, an IT manager determines that several outages are tied to a lack of redundancy in the disk controller configuration. Which of the following features would the IT manager look for in a new configuration to correct this?

- A. Disk shadowing
- B. RAID 0
- C. Remote journaling
- D. Electronic vaulting

E. Disk duplexing

Answer: E

QUESTION 165

A new server has two drives and a RAID controller. Which of the following is an option for configuring the storage on this server?

- A. RAID 0
- B. RAID 5
- C. RAID 6
- D. RAID 10

Answer: A

QUESTION 166

A technician is installing a server using a two-channel RAID controller, using RAID 1 for the first channel and RAID 5 for the second channel. If the technician has six 1 TB disks total, how will this configuration look?

- A. One disk RAID 1, five disks RAID 5
- B. Two disks RAID 1, four disks RAID 5
- C. Three disks RAID 1, three disks RAID 5
- D. Four disks RAID 1, two disks RAID 5

Answer: B

QUESTION 167

A server administrator implements external storage for a file server. At a later time, another administrator wants to extend this storage to a second server but is unable to connect to two servers simultaneously. Which of the following storage types was implemented by the first administrator?

- A. DAS
- B. NAS
- C. VSAN
- D. SAN

Answer: A

QUESTION 168

A technician is tasked with connecting a server to a NAS. Which of the following connection types should be used?

- A. HBA
- B. Ethernet
- C. Fiber Fabric
- D. Multiplexer

Answer: B

QUESTION 169

When using multifactor authentication, which of the following represents "something you have"?

- A. A password
- B. A PIN
- C. A fingerprint
- D. An ID card

Answer: D

QUESTION 170

A datacenter audit finds that a number of personnel are not using access cards when entering a secured area with a coworker. Which of the following security methods could be implemented to help prevent this behavior?

- A. Mantrap
- B. Keypad
- C. Smart card
- D. Security camera

Answer: A

QUESTION 171

A technician is installing an operating system on a server using source files on a USB storage device. The technician is unable to boot to the USB device using different USB ports on the server. Which of the following should the technician do to ensure that the operating system can be installed from the USB storage?

- A. Copy the source files to a CD
- B. Install the latest USB device drivers
- C. Reconfigure the boot order
- D. Update the BIOS firmware

Answer: C

QUESTION 172

The IT director instructed the systems administrator to build a server to support the accounting department's file growth. The IT director requested that the accounting users have the ability to encrypt their files; however, the accounting users have reported the inability to encrypt their files. Which of the following file system types is MOST likely causing this issue?

- A. QFS
- B. ZFS
- C. FAT32
- D. CIFS
- E. ext4

Answer: C

QUESTION 173

Which of the following server types translates FQDNs to IP addresses?

- A. DHCP
- B. SMTP

- C. DNS
- D. FTP

Answer: C

QUESTION 174

Two servers are to be configured for high availability in a cluster. Both servers will be running applications at the same time. This feature is known as: ____.

- A. round robin
- B. heartbeat
- C. active/active
- D. active/passive

Answer: C

QUESTION 175

Which of the following is the purpose of an NTP server?

- A. For hosting instant messaging applications
- B. For synchronizing clocks on network devices
- C. For file sharing and collaboration
- D. For hosting newsgroups

Answer: B

QUESTION 176

An administrator wishes to use KVM remotely to monitor and control a server farm. In order to perform this function: ____.

- A. remote control must be disabled on each server.
- B. the host must be reachable via the IP address.
- C. a serial cable must be available.
- D. a monitor must be attached to every server.

Answer: B

QUESTION 177

An administrator needs to reconfigure a Linux server's operating system. Which of the following tools can the administrator use to access a command shell over the network? (Select TWO.)

- A. Connect with SSH
- B. Connect with RDP
- C. Connect with VNC
- D. Connect with BASH
- E. Connect with FTP

Answer: AC

QUESTION 178

A system administrator needs to directly control a server that has no network connectivity. Which of the following should be used to accomplish this?

- A. SSH
- B. KVM
- C. RDP
- D. iLO/iDRAC

Answer: B

QUESTION 179

A customer reports that connectivity to their web server has been sporadic throughout the morning. An administrator has applied OS patches periodically throughout the morning and rebooted the server. Which of the following has the administrator MOST likely violated?

- A. Service level agreement
- B. Mean time before failure
- C. Mean time to repair
- D. Request for proposal

Answer: A

QUESTION 180

A technician needs to install additional memory in a server to help resolve performance issues. Which of the following should the technician do FIRST?

- A. Perform an impact analysis.
- B. Follow change management procedures.
- C. Install the additional memory.
- D. Update system firmware.

Answer: B

QUESTION 181

A line-of-business software patch notification is received. The notification indicates that version 5.0 of the software has new features that the accounting department has been expecting. The update requires a new version of the OS and new version of SQL on the server. Which of the following should the administrator perform FIRST?

- A. Schedule downtime to update the OS and SQL on the server.
- B. Download and test the new version.
- C. Develop a plan to build a test server.
- D. Request feedback from the accounting department.

Answer: C

QUESTION 182

A system administrator is asked to set up several physical file servers that have recently crashed due to a power failure. Which of the following documents should the administrator refer to in order to complete this task?

- A. Server configuration documentation
- B. Network diagram
- C. Asset management documentation

D. Dataflow diagram

Answer: A

QUESTION 183

Which of the following troubleshooting methods would be performed after resolving an issue?

- A. Verify system connectivity
- B. Implement the solution
- C. Document findings
- D. Establish theory

Answer: C

QUESTION 184

A technician is working on a server that is experiencing network connectivity issues. The technician replaces the NIC on the server, but this does not resolve the issue. Which of the following troubleshooting steps should the technician do NEXT?

- A. Establish a new theory of probable cause
- B. Perform a root cause analysis
- C. Document findings, actions, and outcomes
- D. Identify additional changes to the server

Answer: A

QUESTION 185

A blade server indicates it has a failed hard disk in Slot 0. This is the third instance of Slot 0 disk failure in three months. Which of the following is the MOST likely cause of the failed hard disk in Slot 0?

- A. Host bus adapter
- B. Backplane
- C. Network interface card
- D. Central Processing Unit

Answer: B

QUESTION 186

After starting an operating system installation from DVD, a system administrator goes to work on another task and comes back to find the server back at the installation start screen. Which of the following should be done to correct this problem?

- A. Try installation again with a different DVD.
- B. Modify the device boot order in the BIOS.
- C. Monitor the operating system installation process completely this time.
- D. Swap the hard drive with a known working one.

Answer: B

QUESTION 187

A server with a number of graphics cards installed was recently upgraded with additional graphics

cards. Once the server is started, the system powers off unexpectedly. Prior to the upgrade, the server was stable and exhibited no odd behavior. Which of the following is the MOST likely cause of the problem?

- A. The card device drivers are out of date and need to be updated.
- B. The power supply cannot handle the additional power for the new cards.
- C. The operating system does not recognize the new cards.
- D. The cards are not compatible with the other server hardware.

Answer: B

QUESTION 188

A user changed departments from sales to accounting. The user is unable to access the shared network drive containing the accounting department's files. Which of the following should a technician check?

- A. File permissions
- B. Folder redirections
- C. Local group policy
- D. Encryption type

Answer: A

QUESTION 189

A user is unable to save an image file to their home directory on a server. The server technician checks the disk space and ACL on the user's home directory and finds that the user has enough space and required access to write to the directory. Which of the following is the MOST likely reason why the user is unable to save the file?

- A. The user is attempting to save a file with a prohibited file extension.
- B. There are too many open files on the server.
- C. The user does not have permission to save files to the server.
- D. The hard drive containing the user's home directory, is failing.

Answer: A

QUESTION 190

A user in the accounting department reports that print jobs are not printing. A user in the software development department also cannot print to the same printer, but can print to two other printers on different print servers. Which of the following should be the administrator's FIRST step?

- A. Determine whether the server is out of virtual memory.
- B. Check whether the print spooler service has started.
- C. Reboot the print server.
- D. Have the users reboot their workstations.

Answer: B

QUESTION 191

An administrator receives multiple reports that users cannot access a secure website hosted on a server the administrator manages. The administrator investigates and discovers that the reason users cannot access the secure site is because: _____.

- A. port 22 is closed
- B. port 80 is closed
- C. port 443 is closed
- D. port 3389 is closed

Answer: C

QUESTION 192

Which of the following protocols is considered stateless and utilizes TCP when communicating between a server and client?

- A. IMAP
- B. SMTP
- C. HTTP
- D. SSH

Answer: C

QUESTION 193

A server technician needs to connect two servers with gigabit NICs without MDI-X in order to transfer files between them and is unable to locate a switch with gigabit ports. Which of the following types of cables would allow the technician to connect the servers to obtain the FASTEST transfer rate possible?

- A. Rollover cables
- B. CAT6 crossover cables
- C. CAT6 straight-through cables
- D. CAT5 straight-through cables

Answer: B

QUESTION 194

A server technician is connecting a server to a switch in the server room. Both the server and the switch are equipped with 10 Gigabit Ethernet adapters. Which of the following cable choices would produce the BEST throughput?

- A. CAT6 rollover cable
- B. CAT5e straight-through cable
- C. CAT6 straight-through cable
- D. CAT5e crossover cable

Answer: C

QUESTION 195

A server administrator is setting up a new set of hosts for an application that requires communication between all the hosts on a dedicated private subnet. Initially, the configuration consists of four hosts and is expected to grow to 48 total as the application is implemented for the entire company. When configuring the private subnet, which of the following CIDR netmasks would allow for the full number of hosts once the application is fully in production with the least number of unused addresses allocated?

- A. /25
- B. /26
- C. /27
- D. /28

Answer: B

QUESTION 196

An administrator is updating the server infrastructure at a company's disaster recovery site. Currently, an enormous amount of effort is required by the administrator to replicate operations. Which of the following types of site is the administrator currently using?

- A. Cold site
- B. Hot site
- C. Warm site
- D. Replication site

Answer: A

QUESTION 197

A technician has traveled to a company's alternate site to assess current operations of the network infrastructure. Following the assessment, the technician has informed management that everything is operational, with all applications and data mirrored. Which of the following types of site does the company have?

- A. Warm site
- B. Cold site
- C. Hot site
- D. Standby site

Answer: C

QUESTION 198

A hardware failure affects a server in a datacenter. The server is critical to company operation, and the hardware vendor is out of stock on the parts needed to repair the server. A network technician suggests replacing it with a server from the warm site. Which of the following should the technician do FIRST?

- A. Outsource a hardware-certified courier to move the server to the datacenter.
- B. Check the DRP and BCP and talk to the company stakeholders before making the decision.
- C. Unrack the server from the warm site and move it to the datacenter.
- D. Order the parts from the hardware vendor and notify affected users that the server will be down.

Answer: B

QUESTION 199

A technician wants to implement a grandfather-father-son tape rotation policy. Which of the following implements this backup strategy?

- A. Assign a different set of tapes for daily, weekly, and monthly backups.
- B. Use a different set of tapes for every two, four, and eight days.
- C. Designate a different set of tapes for odd-day and even-day backups.

D. Use a queue to rotate tapes based on the age and usage of the tape.

Answer: A

QUESTION 200

In an effort to reduce recovery time during hardware failures, a server administrator needs to implement a backup method that will allow for complete OS and service/application recovery as long as compatible hardware is available. Which of the following backup types meets this requirement?

- A. Incremental
- B. Bare metal
- C. Snapshot
- D. Full

Answer: B

QUESTION 201

A technician needs to install an operating system patch on a virtual server. Which of the following backup types should the technician perform prior to the patch installation that will allow the server to be restored the FASTEST?

- A. Snapshot
- B. Incremental
- C. Differential
- D. Full

Answer: A

QUESTION 202

An administrator needs to perform a backup of all servers for an upcoming disaster recovery exercise at a company cold site. Which of the following types of backup should be performed?

- A. Snapshot
- B. Incremental
- C. Differential
- D. Full

Answer: D

QUESTION 203

A company has hired a consultant to review the production storage infrastructure and provide suggestions on improving performance. The consultant has identified a bottleneck in the production switching fabric and successfully tested the solution in a lab environment. Which of the following should the consultant perform NEXT, according to best practices?

- A. Implement the solution in production since it was tested in the lab.
- B. Establish a plan of action to implement the solution in production.
- C. Perform a root cause analysis of what caused the bottleneck.
- D. Establish a theory describing the possible issue in the production network.

Answer: B

QUESTION 204

Which of the following involves finding and correcting the MOST important reason for performance issues?

- A. Root cause analysis
- B. Replicating the problem
- C. Defining preventative action
- D. Theory of probable cause

Answer: A

QUESTION 205

A system administrator needs to rebuild a server by booting to the OS DVD. The server powers up but attempts to boot from the network. Which of the following is the MOST likely source of the problem?

- A. Incorrect media type
- B. Driver failure
- C. Incorrect mount point
- D. Memory failure

Answer: A

QUESTION 206

A technician is asked to troubleshoot a server that constantly reboots. There are no error messages displayed on the server. Which of the following should the technician check?

- A. Cooling failure
- B. Cable mismatch
- C. BIOS driver failure
- D. Port conflict

Answer: A

QUESTION 207

Users in the accounting department report that they are unable to access a shared network drive used by all departments. Upon troubleshooting, a technician determines that three users in the marketing department, two in sales, five in human resources, and ten in IT are all successfully accessing the shared network drive. Which of the following is MOST likely causing the issue?

- A. Corrupt user profiles
- B. Incorrect NTFS group permissions
- C. The share is unsecured
- D. Excessive page filing on server

Answer: B

QUESTION 208

A network administrator is tasked to set up zoning for a SAN infrastructure that requires redundancy. Which of the following types of hardware should the administrator implement?

- A. Multiple VLANs
- B. Multiple host nodes
- C. Multiple HBAs
- D. Multiple routers

Answer: C

QUESTION 209

Which of the following will protect data loss against catastrophic multiple physical drive failure?

- A. RAID 10
- B. Snapshot
- C. Tape backup
- D. RAID 5

Answer: C

QUESTION 210

The logs on a server in a datacenter indicate that the server unexpectedly shut down minutes after the night cleaning crew started their shift. Which of the following is the MOST likely reason for the shut down?

- A. A hard disk on the server failed.
- B. A power surge occurred.
- C. The CPU on the server overheated.
- D. A memory module on the server failed.

Answer: B

QUESTION 211

A technician reads a hardware manufacturer's blog indicating a critical firmware update is available for the company's file server. Which of the following is the BEST course of action?

- A. Download and install a firmware update from a centralized server.
- B. Download the firmware update and test it on a VM.
- C. Download the firmware update and test it on a non-production server.
- D. Download the firmware update and run it on the company's file server immediately.

Answer: C

QUESTION 212

A system administrator is tasked to set up a file server. The file server must be able to support access control lists and logging for auditing purposes. To meet these requirements, with which of the following file system types should the administrator format the file system?

- A. SMB
- B. NTFS
- C. VMFS
- D. CIFS

Answer: B

QUESTION 213

A user reports that a script \\Server\Share\Runme.bat, which is run on a daily basis, cannot be accessed. Which of the following is the FIRST step to take in resolving this issue?

- A. Check the network cable.
- B. Ping the gateway.
- C. Verify the workstation IP address.
- D. Ping the server.

Answer: D

QUESTION 214

After a migration to a new server, users report that they are unable to save files to their home directories. A check of the permissions on the home directories indicate that the permissions are set as follows:

```
User: r-x  
Group: r--  
Other: r-x
```

A server administrator verifies the correct user and group ownership of the home directories. Which of the following will MOST likely resolve the issue?

- A. Add the w permission for the users.
- B. Add the x permission for the group.
- C. Remove the x permission for other.
- D. Remove the r permission for the group.

Answer: A

QUESTION 215

Which of the following is the MOST complex way to directly reduce heat for computing components?

- A. Liquid cooling units
- B. Integrated high RPM fans
- C. Directed airflow with baffles
- D. Hot aisle/cold aisle

Answer: A

QUESTION 216

A datacenter is in a geologically active area and has no earthquake abatement installed. Which of the following drive types is BEST for general server use?

- A. Solid state drives
- B. High RPM drives
- C. Low RPM drives
- D. USB drives

Answer: A

QUESTION 217

Which of the following server types requires the LARGEST amount of available hard drive space?

- A. Database server
- B. Remote access server
- C. Print server
- D. Directory server

Answer: A

QUESTION 218

A user is unable to save a new presentation to the network U:\ drive. The error message indicates that there is no available space. Other users in the department are not experiencing any problems saving to the U:\ drive. Which of the following is the MOST likely cause of this issue?

- A. The user does not have permissions to use the U:\drive.
- B. The user's disk quota has been exceeded on the U:\drive.
- C. The user's local drive is out of space.
- D. The user does not have the U:\drive mapped.

Answer: B

QUESTION 219

A server administrator wants to isolate a SAN hosted LUN to be visible to only a single host. Which of the following methodologies would be used to present the LUN to only that host?

- A. LUN masking
- B. LUN ID assignment
- C. Port mapping
- D. Port zoning

Answer: A

QUESTION 220

A system administrator has determined that more storage is needed for company data. The storage requires the highest speed data transfer rate with maximum performance. Which of the following solutions MUST be implemented to meet the business requirements?

- A. FC SAN
- B. FCoE
- C. iSCSI
- D. JBOD

Answer: A

QUESTION 221

An administrator is developing a storage growth plan for a new file server. Which of the following should be implemented on the server so that storage growth is restricted?

- A. Disk quotas
- B. Disk compression
- C. Automatic usage reports
- D. Automatic defragmentation

Answer: A

QUESTION 222

A server administrator is researching the purchase of SSD for a server. The administrator receives a report from the datacenter technician detailing current storage requirements and future growth planning estimates as follows:

ServerA: Current-15TB-Future-50% growth

ServerB: Current-20TB-Future-80% growth

Based on this report, which of the following represents the MINIMUM storage requirements needed?

- A. ServerA-18 TB, ServerB-24 TB
- B. ServerA-22 TB, ServerB-22 TB
- C. ServerA-23 TB, ServerB-36 TB
- D. ServerA-25 TB, ServerB-40 TB

Answer: C

QUESTION 223

Which of the following provides two-factor authentication?

- A. Bank card and PIN.
- B. Username and password.
- C. Fingerprint and iris scan.
- D. Key and proximity badge.

Answer: A

QUESTION 224

Which of the following is the MOST secure method of storing critical and sensitive system information (e.g. administrative passwords, trusted signing keys)?

- A. Store the information encrypted and offline in a storage safe.
- B. Encrypt the information using a zip file with a password.
- C. Utilize a drive with full disk encryption enabled.
- D. Create an encrypted virtual disk for storage.

Answer: A

QUESTION 225

A network administrator is tasked to block all outbound SSH connections on the default port from a network subnet of 10.152.8.0/21 on a Linux based firewall. Which of the following rule sets would accomplish this task?

- A. iptables -i OUTPUT -d 10.152.8.0/21 -p TCP --dport 22 -j REJECT
- B. iptables -i OUTPUT -d 10.152.8.0/21 -p TCP --dport 23 -j REJECT
- C. iptables -i OUTPUT -d 10.152.8.0/21 -p TCP --dport 22 -j ACCEPT
- D. iptables -i OUTPUT -d 10.152.8.0/21 -p TCP --dport 23 -j ACCEPT

Answer: A

QUESTION 226

A company has recently had sensitive data stolen by a contractor who plugged a flash drive into a server. Which of the following is the BEST method to prevent future occurrences?

- A. Disable any unused physical ports until needed
- B. Implement a BIOS password on all the servers
- C. Install chassis locks on all the servers
- D. Restrict usage of flash drives in company policy

Answer: A

QUESTION 227

Network devices between two firewalls are included in which of the following?

- A. VPN
- B. SAN
- C. VLAN
- D. DMZ

Answer: D

QUESTION 228

A system administrator is tasked with dividing the network so that each department is separate from the other. Which of the following should be used to accomplish this task?

- A. VLAN
- B. VPN
- C. VNC
- D. VM

Answer: A

QUESTION 229

When installing processors with mixed stepping levels in a server, which of the following guidelines must be followed? (Select TWO.)

- A. The processors must have different frequencies set to operate.
- B. The processor with the highest feature set must be the bootstrap processor.
- C. The processors must have different cache sizes set to operate.
- D. The processors must have the same cache size set.
- E. The processor with the lowest feature set must be the bootstrap processor.

Answer: DE

QUESTION 230

Which of the following connects the L2 cache to the processor?

- A. PCI
- B. Frontside bus
- C. Backside bus
- D. System I/O bus

Answer: C

QUESTION 231

An administrator has just upgraded a server from non-hot plug storage to all hot plug storage. The administrator powers up the server, during POST the RAID controller is recognized but none of the drive lights flash. Which of the following should the administrator do FIRST to troubleshoot the problem?

- A. Check the backplane cabling.
- B. Check the server BIOS.
- C. Update the RAID controller firmware.
- D. Install the latest hard drive firmware.

Answer: A

QUESTION 232

A user is unable to connect to the companys intranet server by FQDN, but can connect by IP address. Other users are not having a problem. An administrator verifies that the user can successfully ping the server by IP address and can properly resolve the FQDN using nslookup. The problem is persisting after running ipconfig /flushdns. Which of the following should the administrator do NEXT?

- A. Examine the lmhost file.
- B. Flush the cache on the DNS server.
- C. Flush the cache on the WINS server.
- D. Examine the hosts file.

Answer: D

QUESTION 233

An administrator is looking to apply a new service pack for an OS on several systems that run business critical applications for a large international finance corporation. Which of the following should the administrator do FIRST?

- A. Deploy the service pack to a single department within the corporation.
- B. Upgrade the system with requirements for that service pack.
- C. Deploy the service pack to a non-critical application server.
- D. Submit a change control for the service pack deployment.

Answer: D

QUESTION 234

A companys legal and regulatory departments have drafted a new policy in which emails must be retained for no longer than three years. Which of the following locations should an administrator configure when complying with the new policy? (Select THREE.)

- A. Local workstations
- B. Backup tapes
- C. Domain controllers
- D. Email server
- E. SMTP gateway
- F. Proxy server

Answer: ABD

QUESTION 235

Which of the following can limit cabling mistakes?

- A. Proper labeling
- B. Asset management
- C. Keeping good vendor logs
- D. Keeping up-to-date repair logs

Answer: A

QUESTION 236

In a workgroup, all of the following steps are required for a DHCP server EXCEPT: _____.

- A. activate the scopes
- B. authorize the server
- C. configure the scopes
- D. install DHCP service

Answer: B

QUESTION 237

A user reports that each day some files are deleted from the department share. The administrator needs to find who deleted these files. Which of the following actions should the administrator perform?

- A. Enable audit object access and specify files and folders to monitor using Task Manager.
- B. Enable audit policy change and specify files and folders to monitor using Windows Explorer.
- C. Enable audit object access and specify files and folders to monitor using Windows Explorer.
- D. Open Performance Monitor and monitor folder activity.

Answer: C

QUESTION 238

Which of the following actions will prevent a driver from being reinstalled automatically?

- A. Run the disable command.
- B. Disable the device using Device Manager.
- C. Review manufacturer manual.
- D. Reboot the server, logon in Safe Mode, uninstall the driver.

Answer: B

QUESTION 239

A company's computer policy dictates that all users' workstations must use the company's corporate web page as their default home page. Which of the following methods should an administrator use to BEST comply with this policy?

- A. Configure a logon script to set the homepage at logon.
- B. Set the default homepage to the corporate website in Group Policy.
- C. Manually configure the homepage on all workstations and setup trace logs to ensure compliance.
- D. Set the default homepage to the corporate website on the base computer image.

Answer: B

QUESTION 240

An administrator has purchased monitoring software that can be configured to send alerts when hardware and applications are having issues. Which of the following must be installed on the monitoring server so that it can properly monitor details on vendor specific devices?

- A. MIBs
- B. SMTP
- C. WMI
- D. DHCP

Answer: A

QUESTION 241

Which of the following must be configured on printers so that the server can properly monitor details on page counts?

- A. WMI
- B. DHCP
- C. SNMP
- D. MIB

Answer: C

QUESTION 242

An administrator has purchased monitoring software that can be configured to alert administrators when hardware and applications are having issues. All devices are configured with SNMP, but the administrator wants to further secure the SNMP traffic. Which of the following settings would BEST provide additional monitoring security? (Select TWO.)

- A. Setting up a custom community name
- B. Configuring the network to block traffic on port 161
- C. Configuring the Windows Firewall to block port 161
- D. Setting SNMP to read only on the devices
- E. Installing new MIBs

Answer: AD

QUESTION 243

When configuring a DHCP server, which of the following can the administrator define for DHCP users? (Select THREE.)

- A. Database server
- B. NTP server
- C. DHCP server
- D. SQL server
- E. DNS server
- F. Domain name

Answer: BEF

QUESTION 244

An administrator receives a call from a user who is unable to receive email. After checking the workstation and email settings the administrator is still not able to determine the problem. Which of the following is the NEXT step that the administrator should take?

- A. Create an action plan.
- B. Escalate the issue.
- C. Reboot the mail server.
- D. Document the solution.

Answer: B

QUESTION 245

An administrator receives a call from a user who is unable to receive email. After troubleshooting the administrator is able to resolve the issue and verify that user is able to access email again. Which of the following is the NEXT step that the administrator should take?

- A. Implement preventative measures.
- B. Close the issue.
- C. Document the outcome.
- D. Qother users to make sure they are not having the same issue.

Answer: C

QUESTION 246

A company has had problems with their HVAC system being able to cool their datacenter as they have grown. Which of the following could BEST be used to help reduce the load on the HVAC system?

- A. Replacing the CAT5 cables with CAT6 cables
- B. Replacing traditional racks with water cooled racks
- C. Turning off non-critical application servers during non-business hours
- D. Taking the second power supplies out of non-critical servers

Answer: B

QUESTION 247

A datacenter has exceeded the load on the central uninterruptible power supply (UPS) for the room and is causing power load problems. Additional power is available, but not using the central UPS. Which of the following is the BEST temporary solution for adding new servers until an upgrade of the central UPS can occur?

- A. Continue plugging into the central UPS, but put the UPS on bypass to avoid load problems.
- B. Plug the servers directly into the power that is not on the UPS.
- C. Add stand alone UPSs for new servers not wired off the central UPS.
- D. Continue plugging into the central UPS because the actual load supported is actually higher than stated.

Answer: C

QUESTION 248

When disposing of computer equipment, which of the following can present an environmental

hazard?

- A. Bezel
- B. SATA cable
- C. Cat5 cable
- D. CRT monitor

Answer: D

QUESTION 249

Which of the following is designed to guarantee that once data is written it cannot be modified? (Select TWO.)

- A. Flash
- B. DLT4 tapes
- C. CD-R
- D. SDLT tapes
- E. WORM

Answer: CE

QUESTION 250

Which of the following file types can Microsoft servers package for remote installation by default?

- A. .exe
- B. .ini
- C. .msi
- D. .dll

Answer: C

QUESTION 251

Which of the following assists with airflow in a server? (Select TWO.)

- A. Riser cards
- B. Water cooling
- C. Shroud
- D. Baffle
- E. Heat sinks

Answer: CD

QUESTION 252

After a virus outbreak, which of the following can be used to deploy a hotfix in a Microsoft environment? (Select TWO.)

- A. WSUS
- B. Terminal services
- C. Remote management cards
- D. Group policy
- E. SNMP

Answer: AD

QUESTION 253

Which of the following BEST describes RAID 10?

- A. Mirroring with striping
- B. Mirroring with fault tolerance
- C. Striping
- D. Striping with distributed parity

Answer: A

QUESTION 254

Which of the following BEST describes RAID 1?

- A. Mirroring
- B. Striping
- C. Striping with parity
- D. Striping with mirroring

Answer: A

QUESTION 255

Which of the following BEST describes RAID 0?

- A. Striping with parity
- B. Striping with mirroring
- C. Mirroring
- D. Striping

Answer: D

QUESTION 256

Which of the following BEST describes the difference between RAID 5 and RAID 6?

- A. RAID 5 uses a dedicated parity drive and RAID 6 does not.
- B. RAID 6 uses a dedicated parity drive and RAID 5 does not.
- C. RAID 6 uses more parity drives than RAID 5.
- D. RAID 5 uses more parity drives than RAID 6.

Answer: C

QUESTION 257

Which of the following BEST describes a benefit of RAID 0?

- A. High fault tolerance
- B. Ease of failure recovery
- C. High performance
- D. No configuration

Answer: C

QUESTION 258

Which of the following BEST describes RAID 5?

- A. Fault tolerance and failure recovery
- B. Fault tolerance and zero configuration
- C. Zero configuration and high performance
- D. High performance and fault tolerance

Answer: D

QUESTION 259

Which of the following RAID levels provides the HIGHEST fault tolerance possible?

- A. RAID 0
- B. RAID 5
- C. RAID 6
- D. RAID 10

Answer: D

QUESTION 260

Which of the following is BEST described as a storage system that can be connected to multiple servers through a fiber channel?

- A. JBOD
- B. SAN
- C. DAS
- D. NAS

Answer: B

QUESTION 261

Which of the following is a storage system that can be connected to multiple servers through an iSCSI connection?

- A. JBOD
- B. DAS
- C. NAS
- D. SAN

Answer: D

QUESTION 262

Which of the following can be used to manage a servers BIOS remotely? (Select TWO.)

- A. Remote desktop software
- B. Dedicated management card
- C. Telnet session
- D. IP KVM
- E. VPN

Answer: BD

QUESTION 263

Which of the following BEST describes a server where several physical server chassis are housed within an enclosure to share some redundant resources?

- A. Tower server
- B. Rack mount server
- C. Blade server
- D. Bare metal server

Answer: C

QUESTION 264

Which of the following memory technologies has the HIGHEST cost to implement?

- A. ECC
- B. RAID
- C. Pairing
- D. Registered

Answer: B

QUESTION 265

A power loss during a firmware update would MOST likely result in which of the following?

- A. Increased heat output
- B. Damage of the hardware
- C. Loss of storage data
- D. Decreased performance

Answer: B

QUESTION 266

Which of the following interfaces in Windows server can be used to add a new volume for storage? (Select TWO.)

- A. Computer Management
- B. System Properties
- C. Device Manager
- D. Disk Management
- E. My Computer

Answer: AD

QUESTION 267

When an administrator is troubleshooting a system, which of the following describes the NEXT course of action if a change does not solve the problem?

- A. Establish a new theory of probable cause.
- B. Reverse the change.

- C. Implement the next logical change.
- D. Perform a root cause analysis.

Answer: B

QUESTION 268

Which of the following expansion cards should be installed into a server to provide fiber channel SAN connectivity?

- A. HBA
- B. USB
- C. UAC
- D. NIC

Answer: A

QUESTION 269

Which of the following can occur if the maximum rated load is exceeded on an uninterruptible power supply (UPS)?

- A. There is a fire hazard potential if a power outage occurs.
- B. The last system plugged into the UPS will not be provided any power.
- C. The UPS will draw more power from the circuit to compensate.
- D. The runtime of the UPS will be insufficient if a power outage occurs.

Answer: D

QUESTION 270

A server is having problems accessing its presented storage on a SAN. Which of the following could be causing the problem? (Select TWO.)

- A. NIC
- B. HBA
- C. Tape backup drive
- D. SCSI adapter
- E. CPU

Answer: AB

QUESTION 271

Which of the following components found in a legacy server has a 16-bit bus?

- A. USB
- B. PCI
- C. ISA
- D. AGP

Answer: C

QUESTION 272

Which of the following expansion slots would be BEST for a fiber network card?

- A. ISA
- B. PCIx
- C. PCIe
- D. AGP

Answer: C

QUESTION 273

Which of the following expansion slots is 64-bit?

- A. PCIx
- B. PCI
- C. ISA
- D. PCIe

Answer: D

QUESTION 274

Which of the following will allow devices to be added without turning the server off?

- A. Plug and Play
- B. Warm site
- C. Hot plug
- D. Hot site

Answer: C

QUESTION 275

Which of the following internal storage devices has the GREATEST storage capacity and is WORM media?

- A. CD-RW
- B. CD-R
- C. DVD-RW
- D. Flash

Answer: B

QUESTION 276

Which of the following media types is the MOST durable in harsh environments?

- A. Disk
- B. Tape
- C. Optical
- D. Flash

Answer: D

QUESTION 277

Which of the following settings is the jumper set to when installing a DVD-RW as the second device on an IDE cable?

- A. ID0
- B. ID2
- C. Cable select
- D. Master

Answer: C

QUESTION 278

A user reports they cannot access the network share folder, the users workstation is configured to use automatic IP. When the administrator checks the IP address the response returns as 169.254.0.5. Which of the following should the administrator verify?

- A. That there are no DHCP relay servers.
- B. That the user account on Active Directory is not locked.
- C. That the network card driver is not installed incorrectly.
- D. The network connection is functioning.

Answer: D

QUESTION 279

After applying a new driver to a NIC, the server reboots and fails to restart. Which of the following is the BEST way to resolve the problem?

- A. Boot using recovery console and restore the previous driver.
- B. Boot the server, press F8 and access last known good configuration.
- C. Restore the server using last backup tape.
- D. Boot the server with ASR option.

Answer: B

QUESTION 280

Which of the following types of DNS records enables support for email?

- A. A
- B. MX
- C. PTR
- D. AAAA

Answer: B

QUESTION 281

Which of the following protocols is responsible for the resolution of IP addresses to MAC addresses?

- A. DHCP
- B. ARP
- C. DNS
- D. RARP

Answer: B

QUESTION 282

Which of the following RAID levels supports fault tolerance by writing parity to only one drive in the

array?

- A. RAID 3
- B. RAID 5
- C. RAID 6
- D. RAID 10

Answer: A

QUESTION 283

Which of the following are possible SCSI ID ranges on a wide SCSI adapter?

- A. 1 - 7
- B. 1 - 16
- C. 0 - 7
- D. 0 - 15

Answer: D

QUESTION 284

Which of the following RAID levels can withstand the simultaneous loss of two physical drives in an array?

- A. RAID 0
- B. RAID 3
- C. RAID 5
- D. RAID 10

Answer: D

QUESTION 285

Which of the following protocols would MOST likely be used in the establishment of an IPSec VPN tunnel?

- A. AES
- B. TKIP
- C. 802.1q
- D. ISAKMP

Answer: D

QUESTION 286

Users have reported that they cannot access certain Internet sites. An administrator wants to test that the sites are properly resolving to an IP address. Which of the following tools would allow the administrator to test name resolution?

- A. net view
- B. ipconfig
- C. dig
- D. ifconfig

Answer: C

QUESTION 287

A new server was installed for the purpose of monitoring network traffic. The network has been configured in such a way that all traffic will be mirrored out the port this server is connected to. When reviewing the network traffic logs on the server only traffic destined to the server is listed in the logs. Which of the following is preventing the server from seeing all network traffic?

- A. NIC filtering is enabled.
- B. Port security is configured.
- C. NIC is not in promiscuous mode.
- D. NIC is in promiscuous mode.

Answer: C

QUESTION 288

A server is connected to a gigabit Ethernet switch and has negotiated 1Gbps / Full Duplex. When transferring large files to and from other servers on the segment via FTP slow performance is noticed. All network cabling, network hardware and server hardware were verified to be working correctly. Which of the following could be done to improve performance?

- A. Decrease the TCP window size.
- B. Increase the UDP window size.
- C. Increase the TCP window size.
- D. Decrease the UDP window size.

Answer: C

QUESTION 289

A new server was installed. Most clients are located in the same subnet as the server and can successfully access the server. Clients located on different subnets have been unable to access the server, but have no trouble accessing other servers on their subnet. Which of the following is the reason that these clients are unable to access the server?

- A. DHCP has assigned the wrong addresses.
- B. Incorrect default gateway on the server.
- C. DNS entries were not created.
- D. WINS server is not responding.

Answer: B

QUESTION 290

Which of the following is an SLA?

- A. A document stating the impact analysis of a nonfunctional server.
- B. A contract that details the device replacement time frames.
- C. A contract that details the correct equipment disposal laws.
- D. A statement of compliance with local laws and regulations.

Answer: B

QUESTION 291

A server failed Thursday evening before the nightly backup. The backup scheme in place was full

backups every Sunday, incremental backups on Monday, Wednesday, and Friday, and differential backups on Tuesday, Thursday, and Saturday. To fully restore the server, which of the following is the LEAST amount of backup sets required?

- A. One
- B. Two
- C. Three
- D. Four

Answer: C

QUESTION 292

An administrator identifies that a server is shutting down. The administrator powers up the server and OS loads but after a few minutes it powers down again. Which of the following is the cause?

- A. Redundant power supply failure
- B. CPU overheating
- C. Memory failure
- D. Hard disk failure

Answer: B

QUESTION 293

Which of the following would be an advantage to using a blade server as opposed to a rack mount server?

- A. Blade servers allow for internal tape drives
- B. Blade servers offer more rack density
- C. Blade servers are typically faster
- D. Blade servers allow for more RAM

Answer: B

QUESTION 294

A stripe set of maximum size is to be configured using two physical disks. One disk has 150 GB and the other has 250 GB in unallocated space. Which of the following will be the size of the stripe set?

- A. 150 GB
- B. 300 GB
- C. 400 GB
- D. 500 GB

Answer: B

QUESTION 295

A technician has a current baseline and is told to install additional memory and a faster NIC card. At which point in time should the next baseline be run?

- A. After the memory is installed
- B. Before the upgrade is performed
- C. After the NIC is installed

D. After the upgrades are performed

Answer: D

QUESTION 296

Users report that they are unable to connect to a server. An administrator confirms that it is unreachable across the network. Other administrators have been working in the server room throughout the day. Which of the following is the NEXT step the administrator should take?

- A. Verify the configuration of the connected port on the network switch.
- B. Reboot the server.
- C. Install a new NIC on the server.
- D. Verify that network cables are connected.

Answer: D

QUESTION 297

A company utilizes the GFS backup standard. Which of the following describes this backup method?

- A. Greatest, Final, Sequential
- B. Full, Partial, Incremental
- C. Monthly, Weekly, Daily
- D. Full, Differential, Incremental

Answer: C

QUESTION 298

Which of the following concepts is described as multiple logical subnets traversing the same physical network?

- A. DHCP
- B. VLANs
- C. DMZ
- D. VPNs

Answer: B

QUESTION 299

Which of the following expansion cards should be installed in a server to allow the server to connect to a SAN via a fiber channel?

- A. SATA
- B. iSCSI
- C. SCSI
- D. HBA

Answer: D

QUESTION 300

Which of the following must be done to properly conduct testing of the data backup portion of a disaster recovery plan?

- A. Perform an integrity test of backup media.
- B. Verify data on backup media can be read.
- C. Verify that backups have occurred and were successful via the logs.
- D. Restore backed up data to a test server.

Answer: D

QUESTION 301

Which of the following is the MOST important consideration before making a change to a server?

- A. Explore the ramification of the change before implementation.
- B. Determine the service level agreement in place before implementation.
- C. Review the equipment disposal procedures and policies before implementation.
- D. Notify all staff members of the planned system outage before implementation.

Answer: A

QUESTION 302

An administrator attempts to install the latest security patches for an older server. When the administrator runs the patch installer, the install fails. The administrator tries again, and the installer fails again. Which of the following is the MOST likely reason for this?

- A. The administrator improperly configured the virtual memory settings on the server.
- B. The administrator is using incorrect patch switches for the install.
- C. The administrator is trying to install security patches for software that is not installed.
- D. The administrator is trying to install patches that require hard drive encryption on the server.

Answer: C

QUESTION 303

Which of the following BEST describes server virtualization?

- A. A single logical server operating on multiple physical servers.
- B. Applications hosted on a single server and deployed to multiple users.
- C. Multiple servers used to host applications for multiple users.
- D. Multiple logical servers operating on the same physical server.

Answer: D

QUESTION 304

An administrator has encountered a problem with a particular piece of software installed on the server and begins the troubleshooting process. Which of the following is the FIRST place the administrator should look for specific information about the problem?

- A. The supporting documentation
- B. The vendors website
- C. The Internet
- D. The servers event logs

Answer: D

QUESTION 305

Which of the following is the MOST important factor when considering environmental factors?

- A. Server room access should be limited to authorized personnel.
- B. Servers should be kept in a warm and dark environment.
- C. Remove the floppy drives from the system.
- D. The server administrator should ensure adequate levels of cooling.

Answer: D

QUESTION 306

Which of the following ports does a telnet application utilize?

- A. 21
- B. 23
- C. 80
- D. 443

Answer: B

QUESTION 307

Which of the following is the MOST common problem that occurs in server rooms?

- A. Excessive cooling
- B. Dust buildup
- C. Poor ground wires
- D. Wet floors

Answer: B

QUESTION 308

Which of the following is an environmental server maintenance task that should be performed every three months?

- A. Replace the rubber mats in the server room
- B. Clean the servers to limit dust buildup
- C. Wash the outside of the servers
- D. Replace the server fans

Answer: B

QUESTION 309

An administrator has just installed a new NIC into the server. The system POSTs fine and the NIC is recognized by the OS, but it does not receive an IP address. Which of the following is the MOST likely cause of this?

- A. The NIC is not on the HCL.
- B. The driver is incorrect on the server.
- C. The patch cable has not been seated properly.
- D. The NIC is not seated properly.

Answer: C

QUESTION 310

Which of the following is the FIRST thing that should be done in order to begin reinstalling TCP/IP on the server?

- A. Configure netsh settings in case of backup
- B. Restart the server
- C. Notify users
- D. Uninstall TCP/IP

Answer: C

QUESTION 311

Which of the following RAID arrays performs mirroring of the disks first, then striping of the disks?

- A. RAID 1
- B. RAID 0+1
- C. RAID 6
- D. RAID 10

Answer: D

QUESTION 312

Which of the following is the BEST place to find the latest BIOS upgrade of the server system board?

- A. Third-party vendor
- B. BIOS manufacture website
- C. Operating system manufacture website
- D. Servers manufacture website

Answer: D

QUESTION 313

Which of the following would be the BEST configuration when using seven SCSI drives in order to have full fault tolerance?

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

Answer: D

QUESTION 314

A company would like to upgrade an old server to a multi-processor box. The server currently has a single 3.0GHz 1Mb cache processor in it with a single empty socket. The only processor that is available from a manufacturer is a 3.0GHz 2Mb cache model. Which of the following is the BEST reason why this upgrade will not work?

- A. The socket size does not match
- B. The cache is from a different manufacturer
- C. The processors do not match
- D. Processors cannot be upgraded after server has been deployed

Answer: C

QUESTION 315

A server has a single, half height, PCI-X 3.3v slot available. Which of the following cards can fit in this slot? (Select THREE.)

- A. Half Height, Universally Keyed PCI card
- B. Full Height, 3.3v PCI-X card
- C. Half Height, x16 PCI Express Card
- D. Half Height, 3.3v PCI card
- E. Half Height, Universally Keyed PCI-X card
- F. Full Height, Universally Keyed PCI card
- G. Half Height, x8 PCI Express Card

Answer: ADE

QUESTION 316

A company has a corporate office building that is used by 50 to 100 unique visitors each day for meetings. Users routinely report that they are unable to access the network with their laptops when visiting this location. The help desk reports that these users are not getting IP addresses automatically assigned. After an investigation, the server administrator has determined that the DHCP service is functioning, but a minimal number of addresses are available for lease. The building is on its own class C subnet and has 250 addresses in the scope. Which of the following represents a long term solution to the problem?

- A. Manually delete address leases from DHCP.
- B. Create reservations in DHCP for users frequently visiting this location.
- C. Assign static IP addresses to visiting laptops.
- D. Reduce the lease duration in the DHCP scope options to one day.

Answer: D

QUESTION 317

An administrator notes that after a recent power outage, some open files were corrupted on one affected file server. Which of the following items should the administrator consider to determine the cause of this corruption?

- A. The servers memory
- B. The servers RAID controller battery
- C. The servers processor
- D. The servers NIC teaming configuration

Answer: B

QUESTION 318

An administrator is required to backup 250 GB nightly utilizing a single LTO2 tape. The administrator reports that the tape drive is running out of available space before the job completes. Which of the following would allow the administrator to backup this data? (Select TWO.)

- A. Enable compression on the LTO2 drive
- B. Utilize LTO3 tapes in the existing drive

- C. Reduce the amount of data on the backup
- D. Replace the LTO2 with LTO3 drive and tapes
- E. Divide the data and back up half one night and half the next

Answer: AD

QUESTION 319

A user calls the system administrator and states that they can no longer access the file server they had been working on all morning. To troubleshoot this problem, which step should the administrator take FIRST?

- A. Reboot the file server.
- B. Ask the user what they were doing when they noticed the problem.
- C. Ask the user to reboot their PC.
- D. Ask the user to ping the default gateway and report the response times back to the administrator.

Answer: B

QUESTION 320

While troubleshooting a video problem on an application server, the system administrator has determined that the video firmware should be updated. Which of the following sources should be used to locate an appropriate update for this hardware? (Select TWO.)

- A. Third-party manufacturer
- B. Video chipset manufacturer
- C. Server manufacturer
- D. Operating system manufacturer
- E. Shareware file sharing site

Answer: BC

QUESTION 321

A user is reporting that access to a file server is much slower than it has been. The system administrator completes a test of the server using a system monitoring tool and compares it to the previously taken baseline. The comparison shows that there are no significant changes in the use of system resources. Which of the following actions should be taken to resolve this users problem?

- A. Add additional RAM to the users PC
- B. Troubleshoot the users PC
- C. Add additional RAM to the server
- D. Add additional hard drive space to the server

Answer: B

QUESTION 322

An administrator is planning an upgrade of a major software package on an application server. The software has been tested successfully in a test environment and it is ready to go into production. Which of the following steps should the administrator take next?

- A. Identify necessary operating system updates
- B. Implement the change
- C. Document the change

D. Schedule system down time

Answer: D

QUESTION 323

In order to utilize most server management software, an administrator will have to install which of the following?

- A. SNMP
- B. SMTP
- C. IPv6
- D. UDP

Answer: A

QUESTION 324

A SAN attached production file server is required to be backed up nightly according to company policy. Recently the data to be backed up has increased to approximately 4 TB. Currently, the server has a single attached LTO2 tape drive. Which of the following should the server administrator do to provide enough backup capacity for the nightly job?

- A. Replace the backup software with a more efficient application.
- B. Reduce the amount of data to be backed up.
- C. Replace the LTO2 tape drive with an LTO3 tape drive.
- D. Replace the single tape drive with a tape library.

Answer: D

QUESTION 325

A server has 500GB of data that must be backed up nightly. The administrator has upgraded the old LTO2 drive to an LTO3, but the data still will not fit on a single tape. Which of the following additional steps should the administrator perform to accommodate the data? (Select TWO.)

- A. Enable compression on the new drive
- B. Reformat all tapes
- C. Delete unnecessary system files
- D. Purchase LTO3 tapes for use in the new drive
- E. Purchase new backup software

Answer: AD

QUESTION 326

Which of the following provides the BEST security and accountability for a Data Center?

- A. Entry logging
- B. Combination locks
- C. Card keys
- D. Dead bolts

Answer: C

QUESTION 327

Which of the following cable types can be used to decrease susceptibility to electronic eavesdropping?

- A. Fiber optic
- B. Fast Ethernet
- C. Coaxial
- D. Thicknet

Answer: A

QUESTION 328

For client computers to access the Internet when using DHCP, the DHCP server must have configurations for at LEAST which of the following? (Select TWO.)

- A. Gateway address
- B. SNA server
- C. Mail server
- D. Web server
- E. Subnet mask

Answer: AE

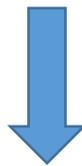
QUESTION 329

When running a Windows server, which option is used with the ping command to define the number of packets transmitted?

- A. -n
- B. -a
- C. -r
- D. -v

Answer:

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