

CompTIA Server+ Certification Exam v1.0 (SK0-005) - Full Access

Question 1 (Single Topic)



Which of the following is typical of software licensing in the cloud?

- A. Per socket
- B. Perpetual
- C. Subscription-based
- D. Site-based

Answer : C

Question 2 (Single Topic)



A server administrator wants to run a performance monitor for optimal system utilization. Which of the following metrics can the administrator use for monitoring? (Choose two.)

- A. Memory
- B. Page file
- C. Services
- D. Application
- E. CPU
- F. Heartbeat

Answer : AE

Question 3 (Single Topic)



After configuring IP networking on a newly commissioned server, a server administrator installs a straight-through network cable from the patch panel to the switch. The administrator then returns to the server to test network connectivity using the ping command. The partial output of the ping and ipconfig commands are displayed below:

```
ipconfig/all
```

```
IPv4 address: 192.168.1.5  
Subnet mask: 255.255.255.0  
Default gateway: 192.168.1.2
```

```
Pinging 192.168.1.2 with 32 bytes of data:
```

```
Reply from 192.168.1.2: Request timed out  
Reply from 192.168.1.2: Request timed out  
Reply from 192.168.1.2: Request timed out  
Reply from 192.168.1.2: Request timed out
```

The administrator returns to the switch and notices an amber link light on the port where the server is connected. Which of the following is the MOST likely reason for the lack of network connectivity?

- A. Network port security
- B. An improper VLAN configuration
- C. A misconfigured DHCP server
- D. A misconfigured NIC on the server

Answer : D

Question 4 (Single Topic)



A user cannot save large files to a directory on a Linux server that was accepting smaller files a few minutes ago. Which of the following commands should a technician use to identify the issue?

- A. pvdisplay
- B. mount
- C. df -h
- D. fdisk -l

Answer : C

Question 5 (Single Topic)



Following a recent power outage, a server in the datacenter has been constantly going offline and losing its configuration. Users have been experiencing access issues while using the application on the server. The server technician notices the date and time are incorrect when the server is online. All other servers are working. Which of the following would MOST likely cause this issue? (Choose two.)

- A. The server has a faulty power supply

- B. The server has a CMOS battery failure
- C. The server requires OS updates
- D. The server has a malfunctioning LED panel
- E. The servers do not have NTP configured
- F. The time synchronization service is disabled on the servers

Answer : CF

Question 6 (Single Topic)



A company has implemented a requirement to encrypt all the hard drives on its servers as part of a data loss prevention strategy. Which of the following should the company also perform as a data loss prevention method?

- A. Encrypt all network traffic
- B. Implement MFA on all the servers with encrypted data
- C. Block the servers from using an encrypted USB
- D. Implement port security on the switches

Answer : D

Question 7 (Single Topic)



A systems administrator is setting up a server on a LAN that uses an address space that follows the RFC 1918 standard. Which of the following IP addresses should the administrator use to be in compliance with the standard?

- A. 11.251.196.241
- B. 171.245.198.241
- C. 172.16.19.241
- D. 193.168.145.241

Answer : C

Reference:
<https://whatis.techtarget.com/definition/RFC-1918>

Question 8 (Single Topic)



An administrator needs to perform bare-metal maintenance on a server in a remote datacenter. Which of the following should the administrator use to access the server's console?

- A. IP KVM
- B. VNC
- C. A crash cart
- D. RDP
- E. SSH

Answer : D

Reference:
<https://phoenixnap.com/blog/what-is-bare-metal-server>

Question 9 (Single Topic)



A technician needs to provide a VM with high availability. Which of the following actions should the technician take to complete this task as efficiently as possible?

- A. Take a snapshot of the original VM
- B. Clone the original VM
- C. Convert the original VM to use dynamic disks
- D. Perform a P2V of the original VM

Answer : A

Reference:
https://forsenergy.com/en-us/virtual_help/html/1325909c-5878-4674-a152-3fd3d4e8e3c6.htm

Question 10 (Single Topic)



A server administrator receives a report that Ann, a new user, is unable to save a file to her home directory on a server. The administrator checks Ann's home directory permissions and discovers the following: dr-xr-xr-- /home/Ann

Which of the following commands should the administrator use to resolve the issue without granting unnecessary permissions?

- A. chmod 777 /home/Ann
- B. chmod 666 /home/Ann
- C. chmod 711 /home/Ann
- D. chmod 754 /home/Ann

Answer : D

Reference:

<https://linuxize.com/post/what-does-chmod-777-mean/>

Question 11 (Single Topic)



Which of the following documents would be useful when trying to restore IT infrastructure operations after a non-planned interruption?

- A. Service-level agreement
- B. Disaster recovery plan
- C. Business impact analysis
- D. Business continuity plan

Answer : C

Question 12 (Single Topic)



A systems administrator is setting up a new server that will be used as a DHCP server. The administrator installs the OS but is then unable to log on using Active Directory credentials. The administrator logs on using the local administrator account and verifies the server has the correct IP address, subnet mask, and default gateway. The administrator then gets on another server and can ping the new server. Which of the following is causing the issue?

- A. Port 443 is not open on the firewall
- B. The server is experiencing a downstream failure
- C. The local hosts file is blank
- D. The server is not joined to the domain

Answer : D

Question 13 (Single Topic)



A systems administrator is preparing to install two servers in a single rack. The administrator is concerned that having both servers in one rack will increase the chance of power issues due to the increased load. Which of the following should the administrator implement FIRST to address the issue?

- A. Separate circuits
- B. An uninterruptible power supply
- C. Increased PDU capacity
- D. Redundant power supplies

Answer : C

Question 14 (Single Topic)



Which of the following is a method that is used to prevent motor vehicles from getting too close to building entrances and exits?

- A. Bollards
- B. Reflective glass
- C. Security guards
- D. Security cameras

Answer : A

Reference:

<https://en.wikipedia.org/wiki/Bollard>

Question 15 (Single Topic)



A technician is installing a variety of servers in a rack. Which of the following is the BEST course of action for the technician to take while loading the rack?

- A. Alternate the direction of the airflow

- B. Install the heaviest server at the bottom of the rack
- C. Place a UPS at the top of the rack
- D. Leave 1U of space between each server

Answer : A

Question 16 (Single Topic)



A technician is configuring a server that requires secure remote access. Which of the following ports should the technician use?

- A. 21
- B. 22
- C. 23
- D. 443

Answer : D

Reference:

<https://docs.microsoft.com/en-us/windows-server/remote/remote-access/ras/manage-remote-clients/install/step-1-configure-the-remote-access-infrastructure>

Question 17 (Single Topic)



A server administrator is using remote access to update a server. The administrator notices numerous error messages when using YUM to update the applications on a server. Which of the following should the administrator check FIRST?

- A. Network connectivity on the server
- B. LVM status on the server
- C. Disk space in the /var directory
- D. YUM dependencies

Answer : D

Reference:

https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/7/html/system_administrators_guide/ch-yum

Question 18 (Single Topic)



Which of the following is an example of load balancing?

- A. Round robin
- B. Active-active
- C. Active-passive
- D. Failover

Answer : A

Reference:

<https://simplicable.com/new/load-balancing>

Question 19 (Single Topic)



Which of the following is the MOST appropriate scripting language to use for a logon script for a Linux box?

- A. VBS
- B. Shell
- C. Java
- D. PowerShell
- E. Batch

Answer : A

Reference:

<https://redmondmag.com/articles/2016/02/09/logon-scripts-for-active-directory.aspx>

Question 20 (Single Topic)



Which of the following tools will analyze network logs in real time to report on suspicious log events?

- A. Syslog
- B. DLP
- C. SIEM
- D. HIPS

Answer : C

Reference:

<https://www.manageengine.com/products/eventlog/syslog-server.html>

Question 21 (Single Topic)



Which of the following will correctly map a script to a home directory for a user based on username?

- A. \\server\users\$\username
- B. \\server\%username%
- C. \\server\FirstInitialLastName
- D. \\server\%username%

Answer : B

Reference:

<https://social.technet.microsoft.com/Forums/windows/en-US/07cfc73-796d-48aa-96a9-08280a1ef25a/mapping-home-directory-with-username-variable?forum=w7itprogeneral>

Question 22 (Single Topic)



A server that recently received hardware upgrades has begun to experience random BSOD conditions. Which of the following are likely causes of the issue? (Choose two.)

- A. Faulty memory
- B. Data partition error
- C. Incorrectly seated memory
- D. Incompatible disk speed
- E. Uninitialized disk
- F. Overallocated memory

Answer : AC

Question 23 (Single Topic)



A server administrator has configured a web server. Which of the following does the administrator need to install to make the website trusted?

- A. PKI
- B. SSL
- C. LDAP
- D. DNS

Answer : A

Reference:

<https://www.csoonline.com/article/3400836/what-is-pki-and-how-it-secures-just-about-everything-online.html>

Question 24 (Single Topic)



A technician is attempting to update a server's firmware. After inserting the media for the firmware and restarting the server, the machine starts normally into the OS. Which of the following should the technician do NEXT to install the firmware?

- A. Press F8 to enter safe mode
- B. Boot from the media
- C. Enable HIDS on the server
- D. Log in with an administrative account

Answer : B

Question 25 (Single Topic)



A server administrator mounted a new hard disk on a Linux system with a mount point of /newdisk. It was later determined that users were unable to create directories or files on the new mount point. Which of the following commands would successfully mount the drive with the required parameters?

- A. echo /newdisk >> /etc/fstab
- B. net use /newdisk
- C. mount :C"o remount, rw /newdisk
- D. mount :C"a

Answer : C

Reference:

<https://unix.stackexchange.com/questions/149399/how-to-remount-as-read-write-a-specific-mount-of-device>

Question 26 (Single Topic)



Which of the following BEST describes the concept of right to downgrade?

- A. It allows for the return of a new OS license if the newer OS is not compatible with the currently installed software and is returning to the previously used OS
- B. It allows a server to run on fewer resources than what is outlined in the minimum requirements document without purchasing a license
- C. It allows for a previous version of an OS to be deployed in a test environment for each current license that is purchased
- D. It allows a previous version of an OS to be installed and covered by the same license as the newer version

Answer : B

Question 27 (Single Topic)



A server administrator needs to harden a server by only allowing secure traffic and DNS inquiries. A port scan reports the following ports are open:

443
636

Which of the following open ports should be closed to secure the server properly? (Choose two.)

- A. 21
- B. 22
- C. 23
- D. 53
- E. 443
- F. 636

Answer : CD

Question 28 (Single Topic)



A server administrator wants to check the open ports on a server. Which of the following commands should the administrator use to complete the task?

- A. nslookup
- B. nbtstat
- C. telnet
- D. netstat -a

Answer : D

Reference:

<https://linuxhint.com/netstat-a/>

Question 29 (Single Topic)



Which of the following must a server administrator do to ensure data on the SAN is not compromised if it is leaked?

- A. Encrypt the data that is leaving the SAN
- B. Encrypt the data at rest
- C. Encrypt the host servers
- D. Encrypt all the network traffic

Answer : B

Question 30 (Single Topic)



A server technician has been asked to upload a few files from the internal web server to the internal FTP server. The technician logs in to the web server using PuTTY, but the connection to the FTP server fails. However, the FTP connection from the technician's workstation is successful. To troubleshoot the issue, the technician executes the following command on both the web server and the workstation: ping ftp.acme.local
The IP address in the command output is different on each machine. Which of the following is the MOST likely reason for the connection failure?

- A. A misconfigured firewall
- B. A misconfigured hosts.deny file
- C. A misconfigured hosts file

D. A misconfigured hosts.allow file

Answer : D

Question 31 (Single Topic)



A company deploys antivirus, anti-malware, and firewalls that can be assumed to be functioning properly. Which of the following is the MOST likely system vulnerability?

- A. Insider threat
- B. Worms
- C. Ransomware
- D. Open ports
- E. Two-person integrity

Answer : A

Question 32 (Single Topic)



A security analyst suspects a remote server is running vulnerable network applications. The analyst does not have administrative credentials for the server. Which of the following would MOST likely help the analyst determine if the applications are running?

- A. User account control
- B. Anti-malware
- C. A sniffer
- D. A port scanner

Answer : A

Reference:

<https://www.sciencedirect.com/topics/computer-science/administrative-credential>

Question 33 (Single Topic)



A server is performing slowly, and users are reporting issues connecting to the application on that server. Upon investigation, the server administrator notices several unauthorized services running on that server that are successfully communicating to an external site. Which of the following are MOST likely causing the issue? (Choose two.)

- A. Adware is installed on the users' devices
- B. The firewall rule for the server is misconfigured
- C. The server is infected with a virus
- D. Intrusion detection is enabled on the network
- E. Unnecessary services are disabled on the server
- F. SELinux is enabled on the server

Answer : AC

Question 34 (Single Topic)



A server technician is configuring the IP address on a newly installed server. The documented configuration specifies using an IP address of 10.20.10.15 and a default gateway of 10.20.10.254. Which of the following subnet masks would be appropriate for this setup?

- A. 255.255.255.0
- B. 255.255.255.128
- C. 255.255.255.240
- D. 255.255.255.254

Answer : D

Reference:

<https://www.calculator.net/ip-subnet-calculator.html?class=any&csubnet=30&cip=10.20.10.15&ctype=ipv4&printit=0&x=57&y=17>

Question 35 (Single Topic)



A storage administrator is investigating an issue with a failed hard drive. A technician replaced the drive in the storage array; however, there is still an issue with the logical volume. Which of the following best describes the NEXT step that should be completed to restore the volume?

- A. Initialize the volume
- B. Format the volume
- C. Replace the volume
- D. Rebuild the volume

Answer : D

Question 36 (Single Topic)



A large number of connections to port 80 is discovered while reviewing the log files on a server. The server is not functioning as a web server. Which of the following represent the BEST immediate actions to prevent unauthorized server access? (Choose two.)

- A. Audit all group privileges and permissions
- B. Run a checksum tool against all the files on the server
- C. Stop all unneeded services and block the ports on the firewall
- D. Initialize a port scan on the server to identify open ports
- E. Enable port forwarding on port 80
- F. Install a NIDS on the server to prevent network intrusions

Answer : AD

Question 37 (Single Topic)



A company is running an application on a file server. A security scan reports the application has a known vulnerability. Which of the following would be the company's BEST course of action?

- A. Upgrade the application package
- B. Tighten the rules on the firewall
- C. Install antivirus software
- D. Patch the server OS

Answer : D

Reference -
<https://www.sciencedirect.com/topics/computer-science/vulnerability-scanner>

Question 38 (Single Topic)



A technician runs top on a dual-core server and notes the following conditions: top `` - 14:32:27, 364 days, 14 users load average 60.5 12.4 13.6
Which of the following actions should the administrator take?

- A. Schedule a mandatory reboot of the server
- B. Wait for the load average to come back down on its own
- C. Identify the runaway process or processes
- D. Request that users log off the server

Answer : D

Reference:
<https://www.tecmint.com/understand-linux-load-averages-and-monitor-performance/>

Question 39 (Single Topic)



A technician needs to set up a server backup method for some systems. The company's management team wants to have quick restores but minimize the amount of backup media required. Which of the following are the BEST backup methods to use to support the management's priorities? (Choose two.)

- A. Differential
- B. Synthetic full
- C. Archive
- D. Full
- E. Incremental
- F. Open file

Answer : AB

Question 40 (Single Topic)



Ann, an administrator, is configuring a two-node cluster that will be deployed. To check the cluster's functionality, she shuts down the active node. Cluster behavior is as expected, and the passive node is now active. Ann powers on the server again and wants to return to the original configuration. Which of the following cluster features will allow Ann to complete this task?

- A. Heartbeat
- B. Failback
- C. Redundancy
- D. Load balancing

Answer : B

Question 41 (Single Topic)



Which of the following policies would be BEST to deter a brute-force login attack?

- A. Password complexity
- B. Password reuse
- C. Account age threshold
- D. Account lockout threshold

Answer : A

Reference:

<https://sucuri.net/guides/what-is-brute-force-attack/>

Question 42 (Single Topic)



A technician needs to install a Type 1 hypervisor on a server. The server has SD card slots, a SAS controller, and a SATA controller, and it is attached to a NAS. On which of the following drive types should the technician install the hypervisor?

- A. SD card
- B. NAS drive
- C. SATA drive
- D. SAS drive

Answer : C

Question 43 (Single Topic)



A technician is trying to determine the reason why a Linux server is not communicating on a network. The returned network configuration is as follows: eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500 inet 127.0.0.1 network 255.255.0.0 broadcast 127.0.0.1
Which of the following BEST describes what is happening?

- A. The server is configured to use DHCP on a network that has multiple scope options
- B. The server is configured to use DHCP, but the DHCP server is sending an incorrect subnet mask
- C. The server is configured to use DHCP on a network that does not have a DHCP server
- D. The server is configured to use DHCP, but the DHCP server is sending an incorrect MTU setting

Answer : B

Question 44 (Single Topic)



A server technician is deploying a server with eight hard drives. The server specifications call for a RAID configuration that can handle up to two drive failures but also allow for the least amount of drive space lost to RAID overhead. Which of the following RAID levels should the technician configure for this drive array?

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

Answer : C

Reference:

<https://www.booleanworld.com/raid-levels-explained/>

Question 45 (Single Topic)



Which of the following should an administrator use to transfer log files from a Linux server to a Windows workstation?

- A. Telnet
- B. Robocopy
- C. XCOPY
- D. SCP

Answer : D

Question 46 (Single Topic)



Users in an office lost access to a file server following a short power outage. The server administrator noticed the server was powered off. Which of the following should the administrator do to prevent this situation in the future?

- A. Connect the server to a KVM
- B. Use cable management
- C. Connect the server to a redundant network
- D. Connect the server to a UPS

Answer : D

Question 47 (Single Topic)



Which of the following describes the installation of an OS contained entirely within another OS installation?

- A. Host
- B. Bridge
- C. Hypervisor
- D. Guest

Answer : C

Question 48 (Single Topic)



A server technician is installing a Windows server OS on a physical server. The specifications for the installation call for a 4TB data volume. To ensure the partition is available to the OS, the technician must verify the:

- A. hardware is UEFI compliant
- B. volume is formatted as GPT
- C. volume is formatted as MBR
- D. volume is spanned across multiple physical disk drives

Answer : A

Question 49 (Single Topic)



An administrator is configuring a server that will host a high-performance financial application. Which of the following disk types will serve this purpose?

- A. SAS SSD
- B. SATA SSD
- C. SAS drive with 10000rpm
- D. SATA drive with 15000rpm

Answer : A

Reference:

<https://www.hp.com/us-en/shop/tech-takes/sas-vs-sata>

Question 50 (Single Topic)



Which of the following DR testing scenarios is described as verbally walking through each step of the DR plan in the context of a meeting?

- A. Live failover
- B. Simulated failover
- C. Asynchronous
- D. Tabletop

Answer : A

Question 51 (Single Topic)



When configuring networking on a VM, which of the following methods would allow multiple VMs to share the same host IP address?

- A. Bridged
- B. NAT
- C. Host only

D. vSwitch

Answer : B

Reference:

<https://www.virtualbox.org/manual/cho6.html>

Question 52 (Single Topic)



A technician recently upgraded several pieces of firmware on a server. Ever since the technician rebooted the server, it no longer communicates with the network. Which of the following should the technician do FIRST to return the server to service as soon as possible?

- A. Replace the NIC
- B. Make sure the NIC is on the HCL
- C. Reseat the NIC
- D. Downgrade the NIC firmware

Answer : D

Question 53 (Single Topic)



A server administrator has noticed that the storage utilization on a file server is growing faster than planned. The administrator wants to ensure that, in the future, there is a more direct relationship between the number of users using the server and the amount of space that might be used. Which of the following would BEST enable this correlation?

- A. Partitioning
- B. Deduplication
- C. Disk quotas
- D. Compression

Answer : C

Question 54 (Single Topic)



A server administrator needs to keep a copy of an important fileshare that can be used to restore the share as quickly as possible. Which of the following is the BEST solution?

- A. Copy the fileshare to an LTO-4 tape drive
- B. Configure a new incremental backup job for the fileshare
- C. Create an additional partition and move a copy of the fileshare
- D. Create a snapshot of the fileshare

Answer : D

Question 55 (Single Topic)



Which of the following can be BEST described as the amount of time a company can afford to be down during recovery from an outage?

- A. SLA
- B. MTBF
- C. RTO
- D. MTTR

Answer : C

Reference:

<https://whatis.techtarget.com/definition/recovery-time-objective-RTO>

Question 56 (Single Topic)



Which of the following actions should a server administrator take once a new backup scheme has been configured?

- A. Overwrite the backups
- B. Clone the configuration
- C. Run a restore test
- D. Check the media integrity

Answer : D

Question 57 (Single Topic)



A systems administrator is performing maintenance on 12 Windows servers that are in different racks at a large datacenter. Which of the following would allow the administrator to perform maintenance on all 12 servers without having to physically be at each server? (Choose two.)

- A. Remote desktop
- B. IP KVM
- C. A console connection
- D. A virtual administration console
- E. Remote drive access
- F. A crash cart

Answer : AB

Reference:

<https://www.blackbox.be/en-be/page/27559/Resources/Technical-Resources/Black-Box-Explains/kvm/Benefits-of-using-KVM-over-IP>

Question 58 (Single Topic)



A server administrator is experiencing difficulty configuring MySQL on a Linux server. The administrator issues the `getenforce` command and receives the following output:

```
># Enforcing
```

Which of the following commands should the administrator issue to configure MySQL successfully?

- A. `setenforce 0`
- B. `setenforce permissive`
- C. `setenforce 1`
- D. `setenforce disabled`

Answer : A

Reference:

<https://blogs.oracle.com/mysql/selinux-and-mysql-v2>

Question 59 (Single Topic)



Which of the following backup types only records changes to the data blocks on a virtual machine?

- A. Differential
- B. Snapshot
- C. Incremental
- D. Synthetic full

Answer : C

Reference:

<https://searchdatabackup.techtarget.com/definition/incremental-backup>

Question 60 (Single Topic)



Which of the following server types would benefit MOST from the use of a load balancer?

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

Answer : D

Reference:

<https://www.dnsstuff.com/what-is-server-load-balancing>

Question 61 (Single Topic)



A company uses a hot-site, disaster-recovery model. Which of the following types of data replication is required?

- A. Asynchronous
- B. Incremental
- C. Application consistent
- D. Constant

Answer : B

Question 62 (Single Topic)



A technician is unable to access a server's package repository internally or externally. Which of the following are the MOST likely reasons? (Choose two.)

- A. The server has an architecture mismatch
- B. The system time is not synchronized
- C. The technician does not have sufficient privileges
- D. The external firewall is blocking access
- E. The default gateway is incorrect
- F. The local system log file is full

Answer : AB

Question 63 (Single Topic)



A server administrator was asked to build a storage array with the highest possible capacity. Which of the following RAID levels should the administrator choose?

- A. RAID 0
- B. RAID 1
- C. RAID 5
- D. RAID 6

Answer : A

Reference:

<https://www.steadfast.net/blog/almost-everything-you-need-know-about-raid>

Question 64 (Single Topic)



A technician needs to deploy an operating system that would optimize server resources. Which of the following server installation methods would BEST meet this requirement?

- A. Full
- B. Bare metal
- C. Core
- D. GUI

Answer : C

Reference:

<https://docs.microsoft.com/en-us/windows-server/administration/performance-tuning/hardware/>

Question 65 (Single Topic)



A company's IDS has identified outbound traffic from one of the web servers coming over port 389 to an outside address. This server only hosts websites. The company's SOC administrator has asked a technician to harden this server. Which of the following would be the BEST way to complete this request?

- A. Disable port 389 on the server
- B. Move traffic from port 389 to port 443
- C. Move traffic from port 389 to port 637
- D. Enable port 389 for web traffic

Answer : C

Reference:

<https://www.auditmypc.com/tcp-port-637.asp>

<https://docs.microsoft.com/en-us/answers/questions/66908/is-port-389-on-ad-in-anyway-used-or-required-when.html>

Question 66 (Single Topic)



Which of the following would be BEST to help protect an organization against social engineering?

- A. More complex passwords
- B. Recurring training and support
- C. Single sign-on
- D. An updated code of conduct to enforce social media

Answer : D

Question 67 (Single Topic)



A technician is connecting a server's secondary NIC to a separate network. The technician connects the cable to the switch but then does not see any link lights on the NIC. The technician confirms there is nothing wrong on the network or with the physical connection. Which of the following should the technician perform NEXT?

- A. Restart the server
- B. Configure the network on the server
- C. Enable the port on the server
- D. Check the DHCP configuration

Answer : C

Question 68 (Single Topic)



Which of the following would MOST likely be part of the user authentication process when implementing SAML across multiple applications?

- A. SSO
- B. LDAP
- C. TACACS
- D. MFA

Answer : A

Reference:
<https://www.onelogin.com/learn/how-single-sign-on-works>

Question 69 (Single Topic)



A server administrator needs to check remotely for unnecessary running services across 12 servers. Which of the following tools should the administrator use?

- A. DLP
- B. A port scanner
- C. Anti-malware
- D. A sniffer

Answer : B

Reference:
<https://www.getsafeonline.org/business/articles/unnecessary-services/>

Question 70 (Single Topic)



A company is building a new datacenter next to a busy parking lot. Which of the following is the BEST strategy to ensure wayward vehicle traffic does not interfere with datacenter operations?

- A. Install security cameras
- B. Utilize security guards
- C. Install bollards
- D. Install a mantrap

Answer : C

Question 71 (Single Topic)



A technician has been asked to check on a SAN. Upon arrival, the technician notices the red LED indicator shows a disk has failed. Which of the following should the technician do NEXT, given the disk is hot swappable?

- A. Stop sharing the volume
- B. Replace the disk
- C. Shut down the SAN
- D. Stop all connections to the volume

Answer : B

Question 72 (Single Topic)



Network connectivity to a server was lost when it was pulled from the rack during maintenance. Which of the following should the server administrator use to prevent this situation in the future?

- A. Cable management
- B. Rail kits
- C. A wireless connection
- D. A power distribution unit

Answer : A

Question 73 (Single Topic)



Which of the following access control methodologies can be described BEST as allowing a user the least access based on the jobs the user needs to perform?

- A. Scope-based
- B. Role-based
- C. Location-based
- D. Rule-based

Answer : B

Question 74 (Single Topic)



A datacenter technician is attempting to troubleshoot a server that keeps crashing. The server runs normally for approximately five minutes, but then it crashes. After restoring the server to operation, the same cycle repeats. The technician confirms none of the configurations have changed, and the load on the server is steady from power-on until the crash. Which of the following will MOST likely resolve the issue?

- A. Reseating any expansion cards in the server
- B. Replacing the failing hard drive
- C. Reinstalling the heat sink with new thermal paste
- D. Restoring the server from the latest full backup

Answer : C

Question 75 (Single Topic)



A server administrator is exporting Windows system files before patching and saving them to the following location:

\\server1\ITDept\

Which of the following is a storage protocol that the administrator is MOST likely using to save this data?

- A. eSATA
- B. FCoE
- C. CIFS
- D. SAS

Answer : C

Question 76 (Single Topic)



A server technician has received reports of database update errors. The technician checks the server logs and determines the database is experiencing synchronization errors. To attempt to correct the errors, the technician should FIRST ensure:

- A. the correct firewall zone is active
- B. the latest firmware was applied
- C. NTP is running on the database system
- D. the correct dependencies are installed

Answer : C

Question 77 (Single Topic)



A technician is connecting a Linux server to a share on a NAS. Which of the following is the MOST appropriate native protocol to use for this task?

- A. CIFS
- B. FTP
- C. SFTP
- D. NFS

Answer : A

Reference:

<https://www.redhat.com/en/topics/data-storage/network-attached-storage>

Question 78 (Single Topic)



A server in a remote datacenter is no longer responsive. Which of the following is the BEST solution to investigate this failure?

- A. Remote desktop
- B. Access via a crash cart
- C. Out-of-band management
- D. A Secure Shell connection

Answer : D

Reference:

https://www.lantronix.com/wp-content/uploads/pdf/Data_Center_Mgmt_WP.pdf

Question 79 (Single Topic)



A server is reporting a hard drive S.M.A.R.T. error. When a technician checks on the drive, however, it appears that all drives in the server are functioning normally. Which of the following is the reason for this issue?

- A. A S.M.A.R.T. error is a predictive failure notice. The drive will fail in the near future and should be replaced at the next earliest time possible
- B. A S.M.A.R.T. error is a write operation error. It has detected that the write sent to the drive was incorrectly formatted and has requested a retransmission of the write from the controller
- C. A S.M.A.R.T. error is simply a bad sector. The drive has marked the sector as bad and will continue to function properly
- D. A S.M.A.R.T. error is an ECC error. Due to error checking and correcting, the drive has corrected the missing bit and completed the write operation correctly.

Answer : C

Reference:

<https://www.backblaze.com/blog/what-smart-stats-indicate-hard-drive-failures/>

Question 80 (Single Topic)



A server administrator has been creating new VMs one by one. The administrator notices the system requirements are very similar, even with different applications. Which of the following would help the administrator accomplish this task in the SHORTEST amount of time and meet the system requirements?

- A. Snapshot
- B. Deduplication
- C. System Restore
- D. Template

Answer : D

Question 81 (Single Topic)



Which of the following steps in the troubleshooting theory should be performed after a solution has been implemented? (Choose two.)

- A. Perform a root cause analysis
- B. Develop a plan of action
- C. Document the findings
- D. Escalate the issue
- E. Scope the issue
- F. Notify the users

Answer : CF

Question 82 (Single Topic)



A snapshot is a feature that can be used in hypervisors to:

- A. roll back firmware updates.
- B. restore to a previous version.
- C. roll back application drivers.
- D. perform a backup restore.

Answer : D

Hypervisor-based snapshots provide a way to take an image copy of a virtual machine (VM), either to access and restore individual files, provide a rollback point to restore the VM, or to clone the VM to another virtual machine.

Reference:

<https://www.computerweekly.com/feature/Snapshots-Hypervisor-vs-Array>

Question 83 (Single Topic)



A server administrator needs to deploy five VMs, all of which must have the same type of configuration. Which of the following would be the MOST efficient way to perform this task?

- A. Snapshot a VM.
- B. Use a physical host.
- C. Perform a P2V conversion.
- D. Use a VM template.

Answer : D

Deploying a virtual machine from a template creates a virtual machine that is a copy of the template. The new virtual machine has the virtual hardware, installed software, and other properties that are configured for the template.

Reference:

https://docs.vmware.com/en/VMware-vSphere/6.7/com.vmware.vsphere.vm_admin.doc/GUID-8254CD05-CC06-491D-BA56-A773A32A8130.html

Question 84 (Single Topic)



A global organization keeps personnel application servers that are local to each country. However, a security audit shows these application servers are accessible from sites in other countries. Which of the following hardening techniques should the organization use to restrict access to only sites that are in the same country?

- A. Configure a firewall
- B. Close the unneeded ports
- C. Install a HIDS
- D. Disable unneeded services.

Answer : A

Monitors Network Traffic -

Reference:

<https://www.fortinet.com/resources/cyberglossary/benefits-of-firewall>

Question 85 (Single Topic)



The Chief Information Officer (CIO) of a datacenter is concerned that transmissions from the building can be detected from the outside. Which of the following would resolve this concern? (Choose two.)

- A. RFID
- B. Proximity readers
- C. Signal blocking
- D. Camouflage
- E. Reflective glass
- F. Bollards

Answer : AB

RFID is an acronym for **r**adio-**f**requency **i**dentification and refers to a technology whereby digital data encoded in RFID tags or smart labels (defined below) are captured by a reader via radio waves. Proximity readers work by constantly emitting a short range radio frequency (RF) field. When a proximity card comes within range of this field, an integrated chip within the card is powered up and the chip transmits a card number back to the reader. Not all proximity cards are born equal though, and it is important that the differences are weighed up when making a decision about which technology to adopt.

Reference:

<https://www.abr.com/what-is-rfid-how-does-rfid-work/#:~:text=RFID%20is%20an%20acronym%20for,a%20reader%20via%20radio%20waves.&text=RFID%2C%20however%2C%20has%20several%20advantages,use%20barcode%20asset%20tracking%20software>

<https://www.ict.co/Choosing-Card-Technology>

Question 86 (Single Topic)



A server administrator is configuring the IP address on a newly provisioned server in the testing environment. The network VLANs are configured as follows:

VLAN name	VLAN ID	Gateway IP address	Active switchports
Testing	10	192.168.10.1/24	2, 4, 6, 8, 10, 12, 14, 18
Production	20	192.168.20.1/24	3, 5, 7, 9, 11, 13, 15, 17
Administration	30	192.168.30.1/24	1, 24

The administrator configures the IP address for the new server as follows:

IP address: 192.168.1.1/24 -

Default gateway: 192.168.10.1 -

A ping sent to the default gateway is not successful. Which of the following IP address/default gateway combinations should the administrator have used for the new server?

- A. IP address: 192.168.10.2/24 Default gateway: 192.168.10.1
- B. IP address: 192.168.1.2/24 Default gateway: 192.168.10.1
- C. IP address: 192.168.10.3/24 Default gateway: 192.168.20.1
- D. IP address: 192.168.10.24/24 Default gateway: 192.168.30.1

Answer : B

Question 87 (Single Topic)



A server administrator is configuring a new server that will hold large amounts of information. The server will need to be accessed by multiple users at the same time. Which of the following server roles will the administrator MOST likely need to install?

- A. Messaging
- B. Application
- C. Print
- D. Database

Answer : D

Few people are expected to use the database at the same time and users don't need to customize the design of the database.

Reference:

<https://support.microsoft.com/en-us/office/ways-to-share-an-access-desktop-database-03822632-da43-4d8f-ba2a-68da245a0446>

Question 88 (Single Topic)



Users at a company work with highly sensitive data. The security department implemented an administrative and technical control to enforce least-privilege access assigned to files. However, the security department has discovered unauthorized data exfiltration. Which of the following is the BEST way to protect the data from leaking?

- A. Utilize privacy screens.
- B. Implement disk quotas.
- C. Install a DLP solution.
- D. Enforce the lock-screen feature.

Answer : C

Components of a Data Loss Solution

Reference:

<https://www.imperva.com/learn/data-security/data-loss-prevention-dlp/>

Question 89 (Single Topic)



A server administrator needs to create a new folder on a file server that only specific users can access. Which of the following BEST describes how the server administrator can accomplish this task?

- A. Create a group that includes all users and assign it to an ACL.
- B. Assign individual permissions on the folder to each user.
- C. Create a group that includes all users and assign the proper permissions.
- D. Assign ownership on the folder for each user.

Answer : C

The top portion of the dialog box lists the users and/or groups that have access to the file or folder.

Reference:

<https://www.uwec.edu/kb/article/drives-establishing-windows-file-and-folder-level-permissions/>

Question 90 (Single Topic)



A technician has received multiple reports of issues with a server. The server occasionally has a BSOD, powers off unexpectedly, and has fans that run continuously. Which of the following BEST represents what the technician should investigate during troubleshooting?

- A. Firmware incompatibility
- B. CPU overheating
- C. LED indicators
- D. ESD issues

Answer : B

Unexpected shutdowns. If the system is randomly shutting down or rebooting, the most likely cause is a heat problem.

Reference:

<https://www.microsoftpressstore.com/articles/article.aspx?p=2224043&seqNum=3>

Question 91 (Single Topic)



Which of the following would a systems administrator implement to ensure all web traffic is secure?

- A. SSH
- B. SSL
- C. SMTP
- D. PGP

Answer : B

Secure Sockets Layer (SSL): SSL and its successor Transport Layer Security (TLS) enable client and server computers to establish a secure connection session and manage encryption and decryption activities.

Reference:

<https://paginas.fe.up.pt/~als/mis10e/ch8/chpt8-4bullettext.htm>

Question 92 (Single Topic)



An administrator is configuring a server to communicate with a new storage array. To do so, the administrator enters the WWPN of the new array in the server's storage configuration. Which of the following technologies is the new connection using?

- A. iSCSI
- B. eSATA
- C. NFS
- D. FCoE

Answer : A

Reference:

https://docs.oracle.com/cd/E26996_01/E18549/html/BABHBFHA.html

Question 93 (Single Topic)



HOTSPOT -

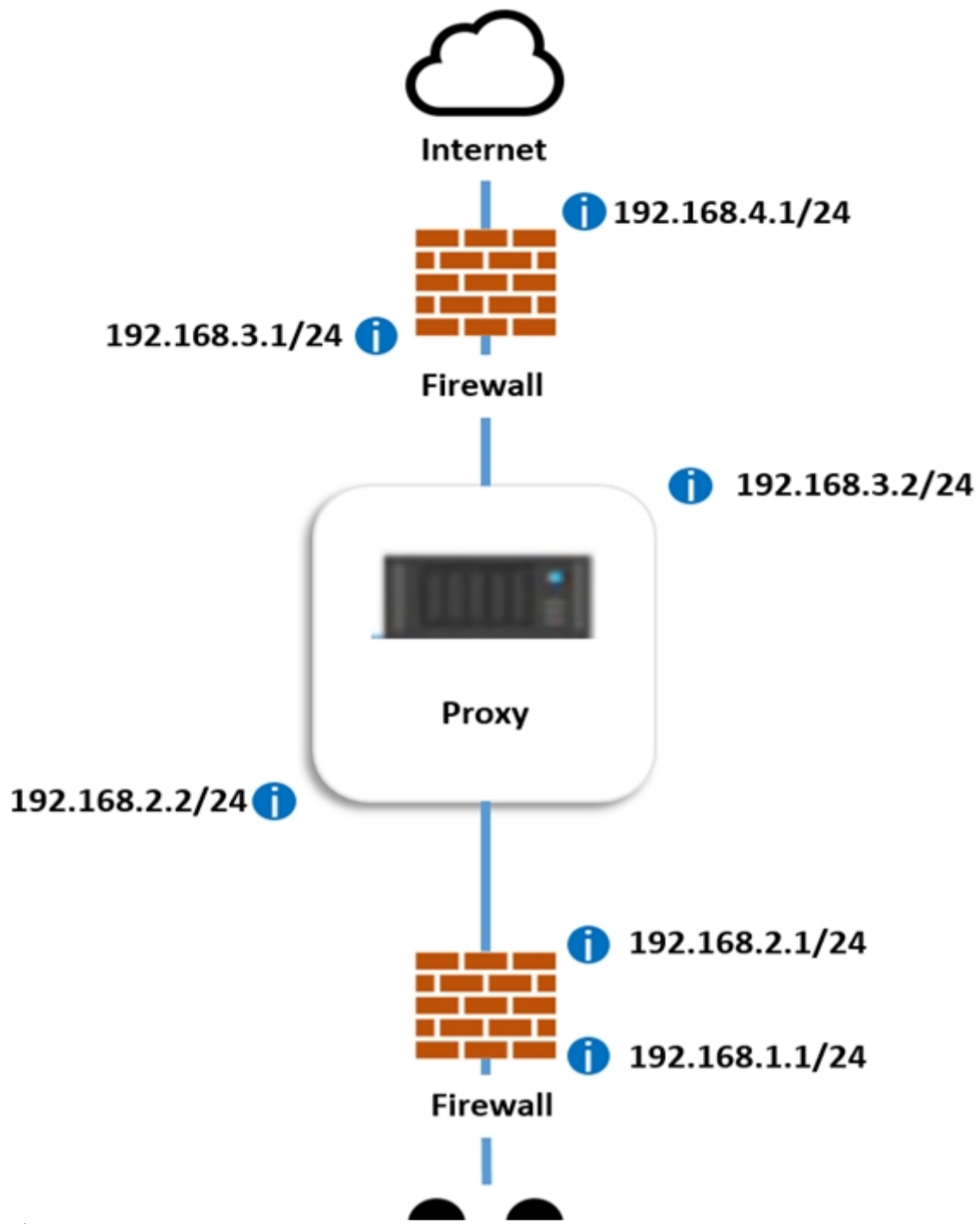
A systems administrator deployed a new web proxy server onto the network. The proxy server has two interfaces: the first is connected to an internal corporate firewall, and the second is connected to an internet-facing firewall. Many users at the company are reporting they are unable to access the Internet since the new proxy was introduced. Analyze the network diagram and the proxy server's host routing table to resolve the Internet connectivity issues.

INSTRUCTIONS -

Perform the following steps:

1. Click on the proxy server to display its routing table.
2. Modify the appropriate route entries to resolve the Internet connectivity issue.

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



Hot Area:

Proxy Server Routing Table

Destination	Netmask	Gateway	Interface
0.0.0.0	0.0.0.0		
		192.168.3.0	192.168.4.1
		192.168.4.0	192.168.1.1
		192.168.1.1	192.168.3.0
		192.168.2.0	192.168.1.0
		192.168.1.0	192.168.2.2
		192.168.4.1	0.0.0.0
		192.168.2.1	192.168.3.1
		0.0.0.0	255.255.255.0
		192.168.3.1	192.168.3.2
		255.255.255.0	192.168.4.0
		192.168.3.2	192.168.2.1
		192.168.2.2	192.168.2.0
		192.168.1.0	255.255.255.0
192.168.3.0	192.168.4.1		
192.168.4.0	192.168.1.1		
192.168.1.1	192.168.3.0		
192.168.2.0	192.168.1.0		
192.168.1.0	192.168.2.2		
192.168.4.1	0.0.0.0		
192.168.2.1	192.168.3.1		
0.0.0.0	255.255.255.0		
192.168.3.1	192.168.3.2		
255.255.255.0	192.168.4.0		
192.168.3.2	192.168.2.1		
192.168.2.2	192.168.2.0		

Proxy Server Routing Table

Answer :

Destination	Netmask	Gateway	Interface
0.0.0.0	0.0.0.0		
		192.168.3.0	192.168.4.1
		192.168.4.0	192.168.1.1
		192.168.1.1	192.168.3.0
		192.168.2.0	192.168.1.0
		192.168.1.0	192.168.2.2
		192.168.4.1	0.0.0.0
		192.168.2.1	192.168.3.1
		0.0.0.0	255.255.255.0
		192.168.3.1	192.168.3.2
		255.255.255.0	192.168.4.0
		192.168.3.2	192.168.2.1
		192.168.2.2	192.168.2.0
192.168.1.0	255.255.255.0		
		192.168.3.0	192.168.4.1
		192.168.4.0	192.168.1.1
		192.168.1.1	192.168.3.0
		192.168.2.0	192.168.1.0
		192.168.1.0	192.168.2.2
		192.168.4.1	0.0.0.0
		192.168.2.1	192.168.3.1
		0.0.0.0	255.255.255.0
		192.168.3.1	192.168.3.2
		255.255.255.0	192.168.4.0
		192.168.3.2	192.168.2.1
		192.168.2.2	192.168.2.0

Question 94 (Single Topic)



A systems administrator needs to configure a new server and external storage for a new production application environment. Based on end-user specifications, the new solution needs to adhere to the following basic requirements:

1. The OS must be installed in a separate disk partition. In case of hard drive failure, it cannot be affected.
2. Application data IOPS performance is a must.
3. Data availability is a high priority, even in the case of multiple hard drive failures.

Which of the following are the BEST options to comply with the user requirements? (Choose three.)

- A. Install the OS on a RAID 0 array.
- B. Install the OS on a RAID 1 array.
- C. Configure RAID 1 for the application data.
- D. Configure RAID 5 for the application data.
- E. Use SSD hard drives for the data application array.
- F. Use SATA hard drives for the data application array.
- G. Use a single JBOD for OS and application data.

Answer : BDE

Question 95 (Single Topic)



A server technician installs a new NIC on a server and configures the NIC for IP connectivity. The technician then tests the connection using the ping command. Given the following partial output of the ping and ipconfig commands:

```
ipconfig /all
```

```
IPv4 address: 192.168.1.5
```

```
Subnet mask: 255.255.255.0
```

```
Default gateway: 192.168.1.1
```

```
pinging 192.168.1.1 with 32 bytes of data:
```

```
Request timed out
```

```
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
```

```
Request timed out
```

```
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
```

Which of the following caused the issue?

- A. Duplicate IP address
- B. Incorrect default gateway
- C. DHCP misconfiguration
- D. Incorrect routing table

Answer : A

Question 96 (Single Topic)



A server administrator is swapping out the GPU card inside a server. Which of the following actions should the administrator take FIRST?

- A. Inspect the GPU that is being installed.
- B. Ensure the GPU meets HCL guidelines.
- C. Shut down the server.
- D. Disconnect the power from the rack.

Answer : C

Question 97 (Single Topic)



A server administrator must respond to tickets within a certain amount of time. The server administrator needs to adhere to the:

- A. BIA.
- B. RTO.
- C. MTTR.
- D. SLA.

Answer : D

Question 98 (Single Topic)



Which of the following relates to how much data loss a company agrees to tolerate in the event of a disaster?

- A. RTO
- B. MTBF
- C. PRO
- D. MTTR

Answer : A

Reference:

<https://www.druva.com/blog/understanding-rpo-and-rto/>

Question 99 (Single Topic)



A server administrator is testing a disaster recovery plan. The test involves creating a downtime scenario and taking the necessary steps. Which of the following testing methods is the administrator MOST likely performing?

- A. Backup recovery
- B. Simulated
- C. Tabletop
- D. Live failover

Answer : C

Reference:
<https://www.alertmedia.com/blog/tabletop-exercises/>

Question 100 (Single Topic)



A technician wants to limit disk usage on a server. Which of the following should the technician implement?

- A. Formatting
- B. Compression
- C. Disk quotas
- D. Partitioning

Answer : C

Reference:
<https://www.digitalcitizen.life/simple-questions-what-are-disk-quotas-how-set-them-windows/>

Question 101 (Single Topic)



A systems administrator has noticed performance degradation on a company file server, and one of the disks on it has a solid amber light. The administrator logs on to the disk utility and sees the array is rebuilding. Which of the following should the administrator do NEXT once the rebuild is finished?

- A. Restore the server from a snapshot.
- B. Restore the server from backup.
- C. Swap the drive and initialize the disk.
- D. Swap the drive and initialize the array.

Answer : C

Question 102 (Single Topic)



A server administrator needs to configure a server on a network that will have no more than 30 available IP addresses. Which of the following subnet addresses will be the MOST efficient for this network?

- A. 255.255.255.0
- B. 255.255.255.128
- C. 255.255.255.224
- D. 255.255.255.252

Answer : C

Question 103 (Single Topic)



A remote physical server is unable to communicate to the network through the available NICs, which were misconfigured. However, the server administrator is still able to configure the server remotely. Which of the following connection types is the server administrator using to access the server?

- A. Out-of-band management
- B. Crash cart access
- C. Virtual administrator console
- D. Local KVM setup
- E. RDP connection

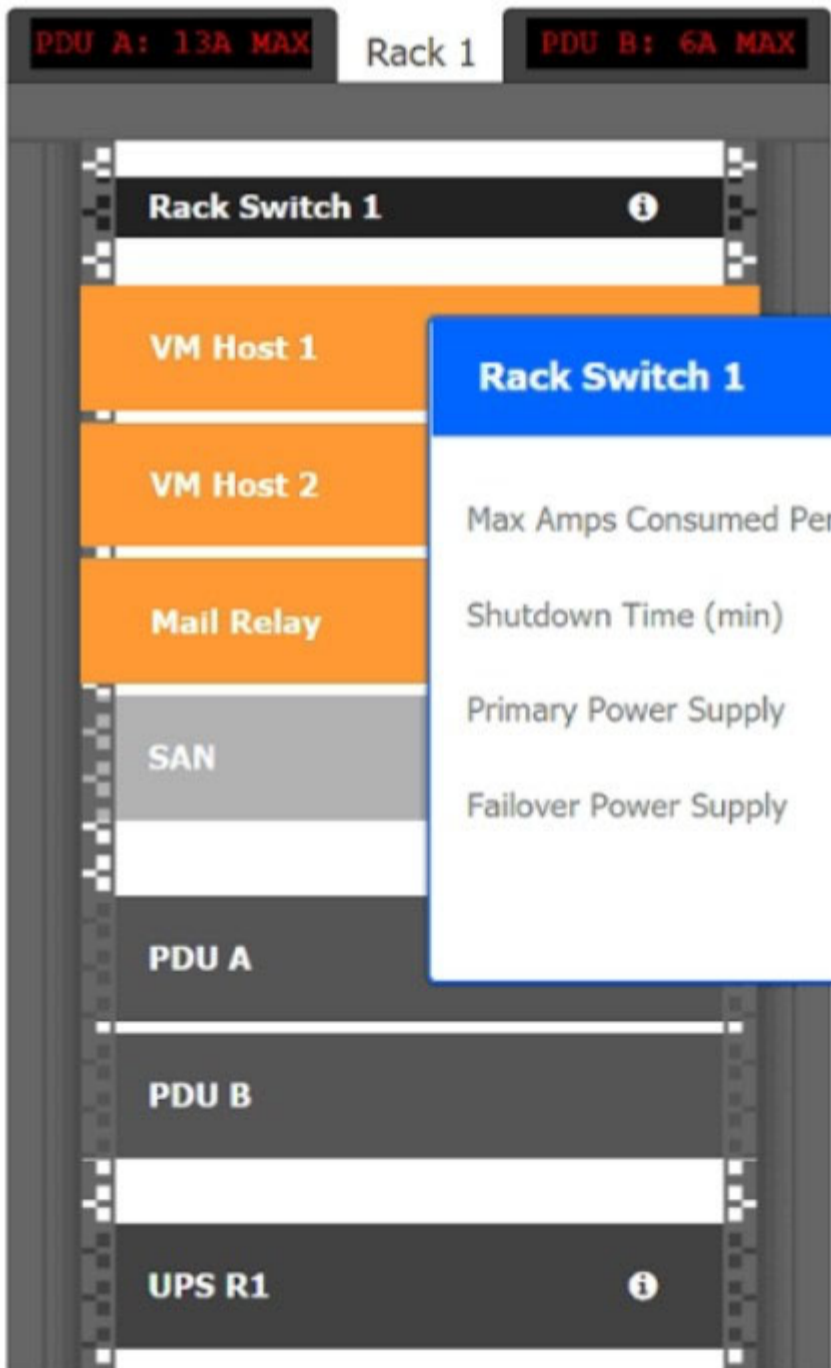
Answer : A

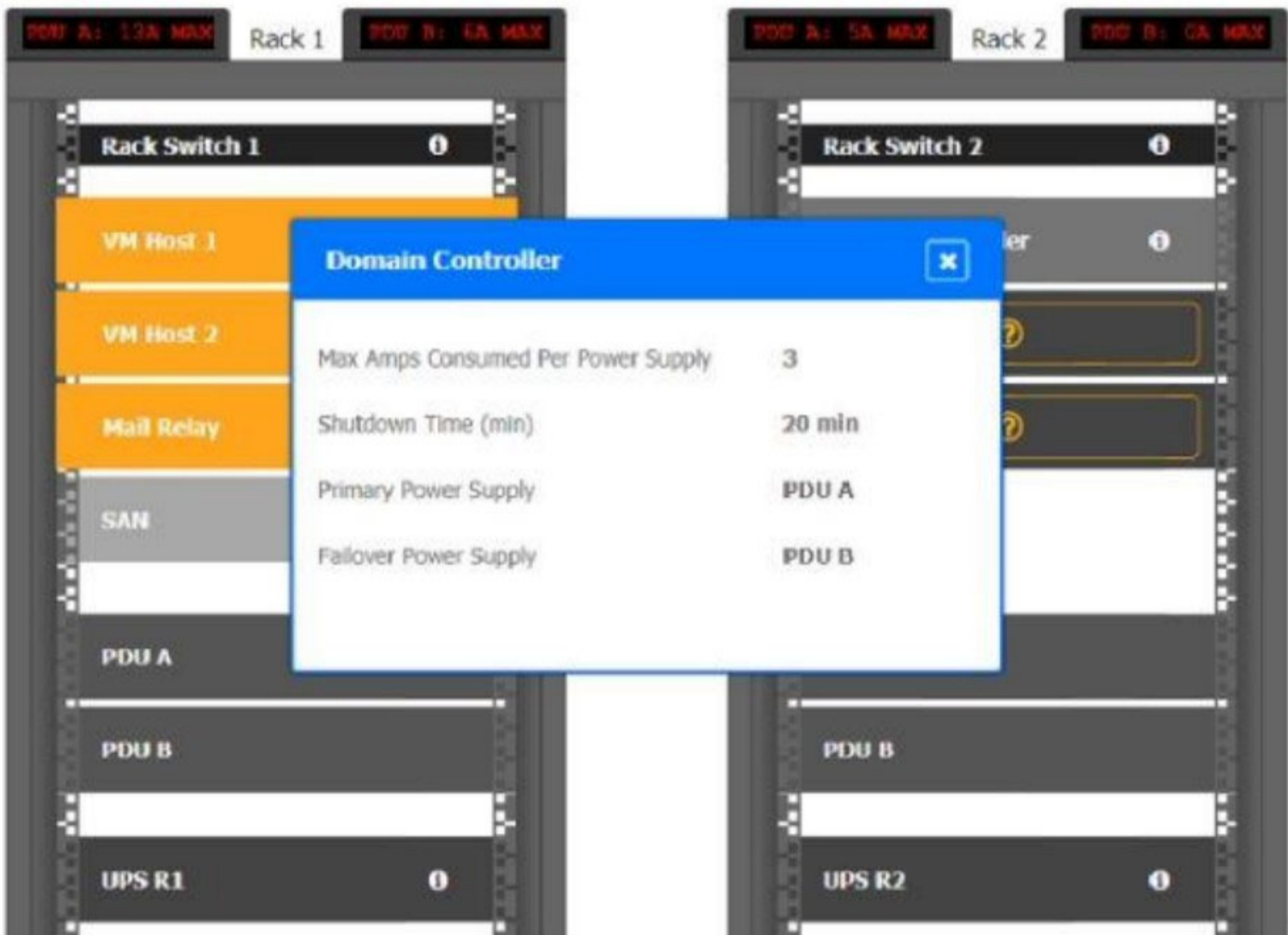
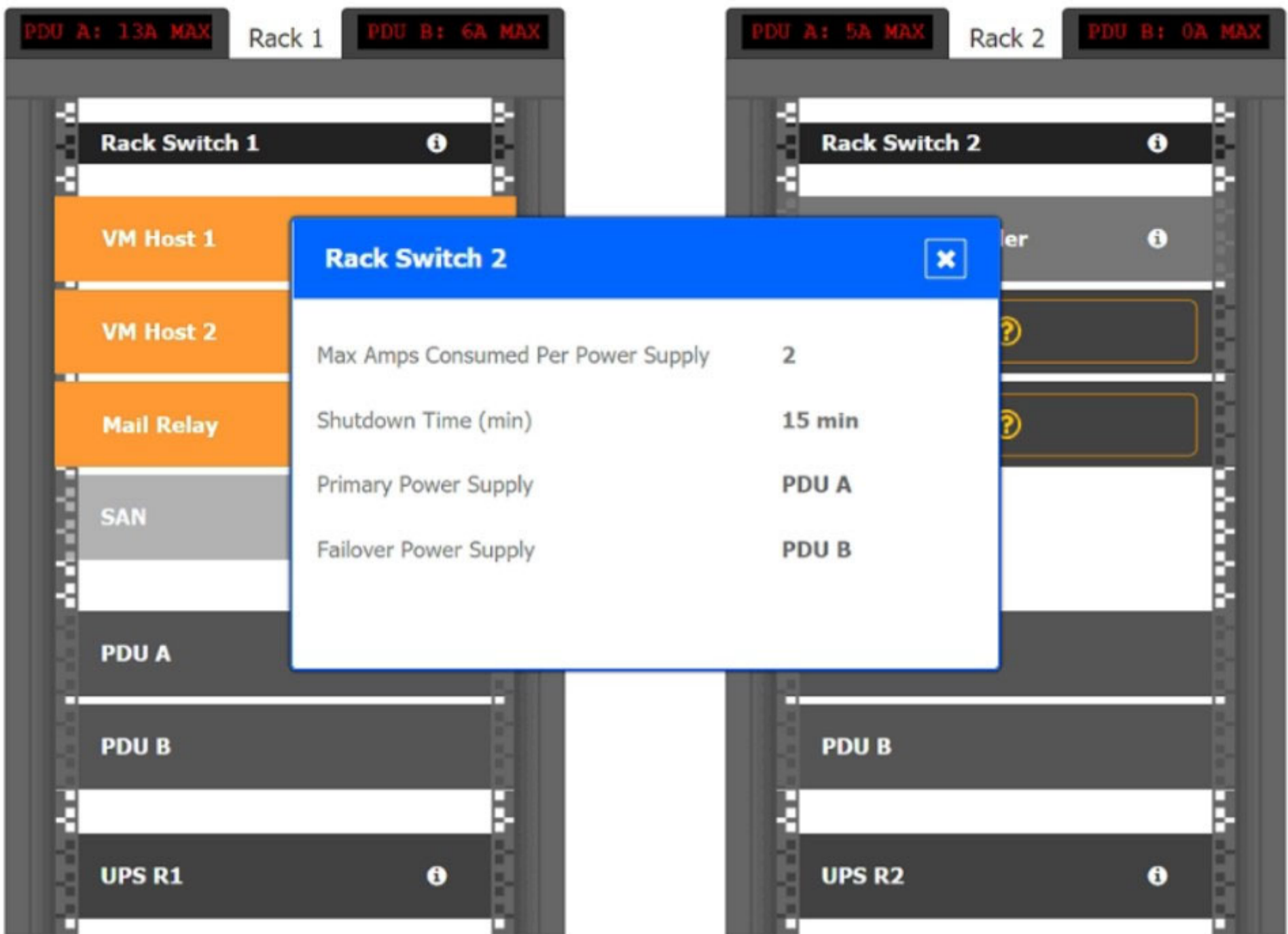
Question 104 (Single Topic)

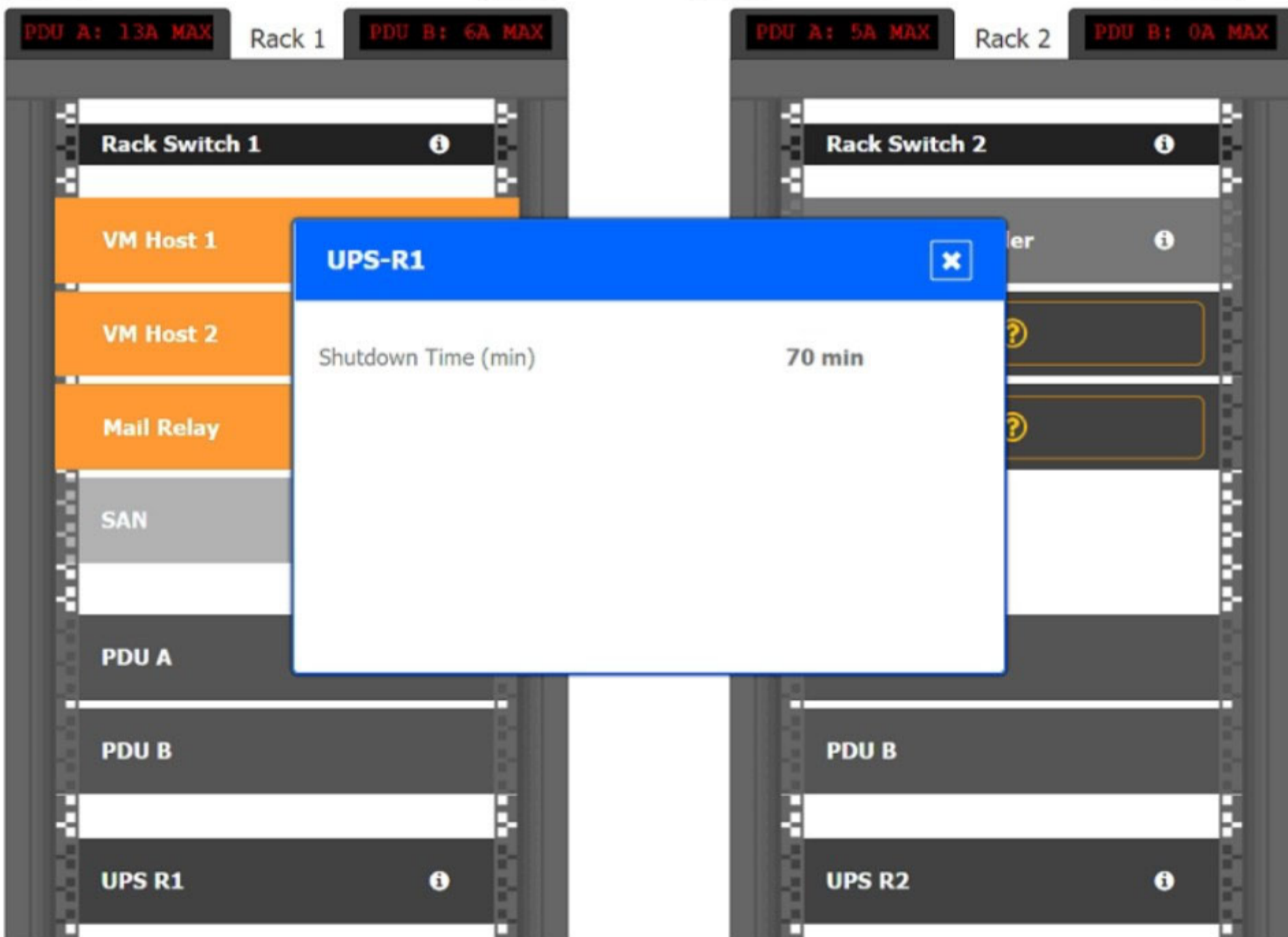
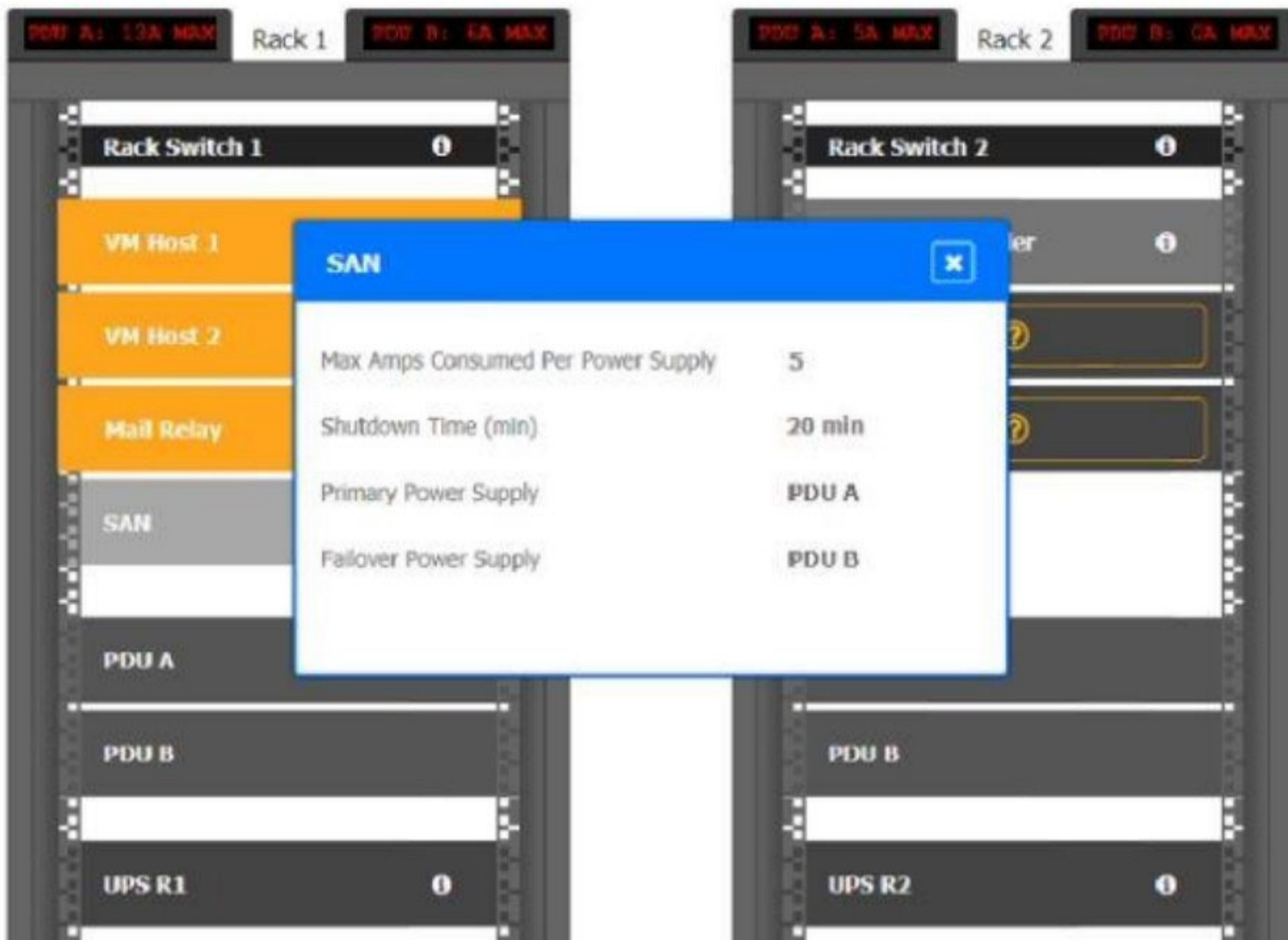


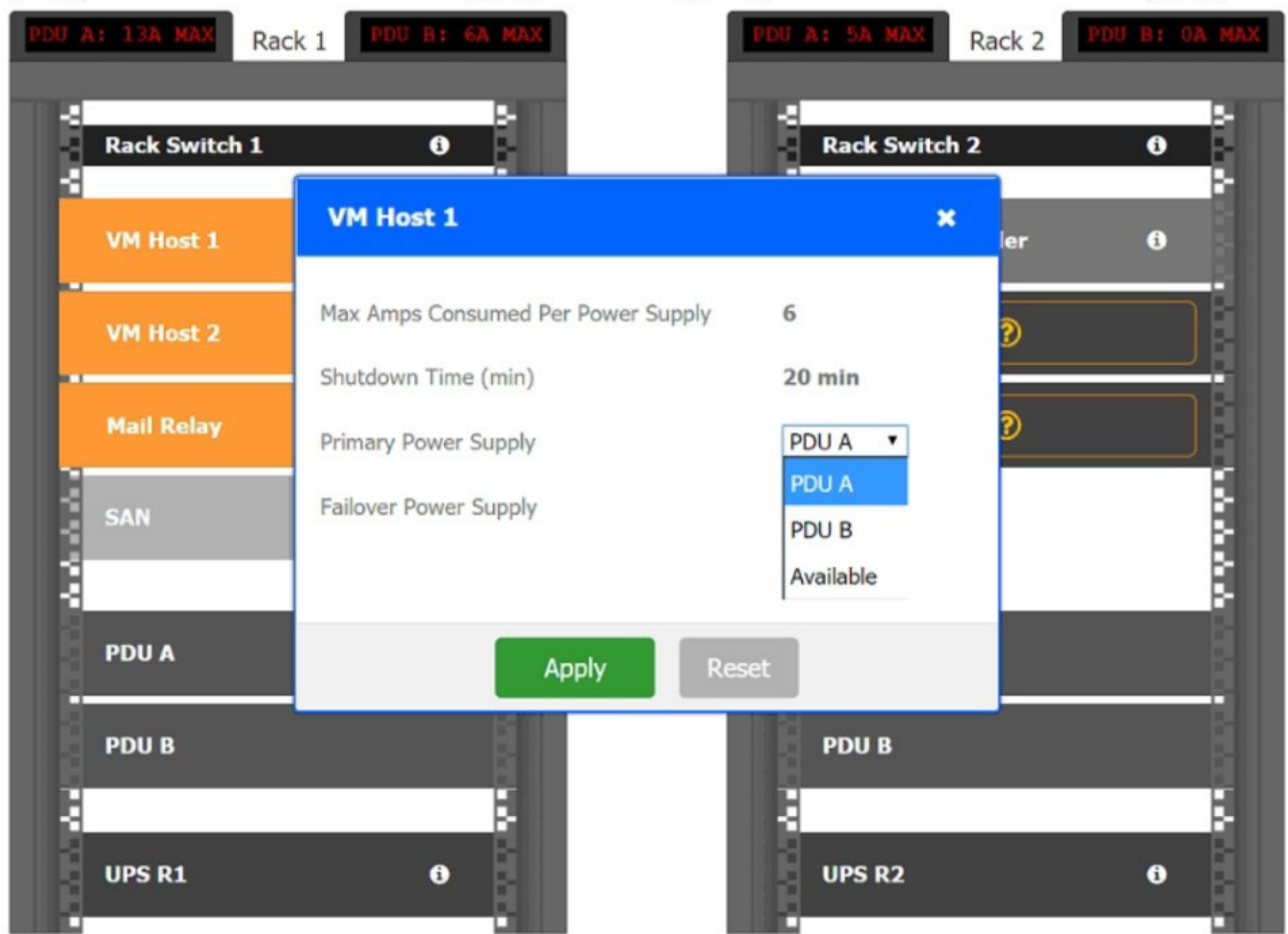
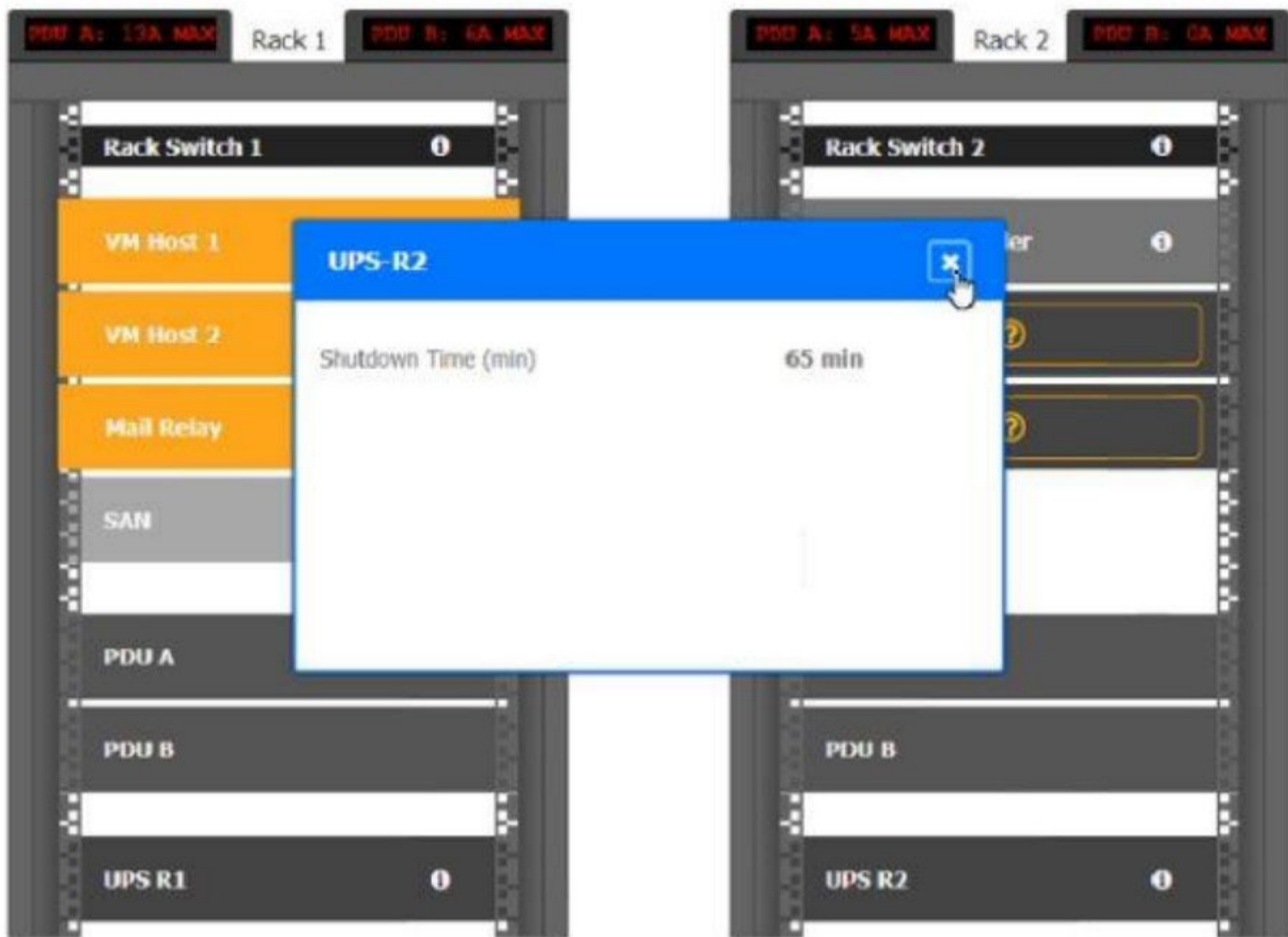
SIMULATION -
A recent power outage caused email services to go down. A server administrator also received averts from the datacenter's UPS. After some investigation, the server administrator learned that each PDU was rated at a maximum of 12A.

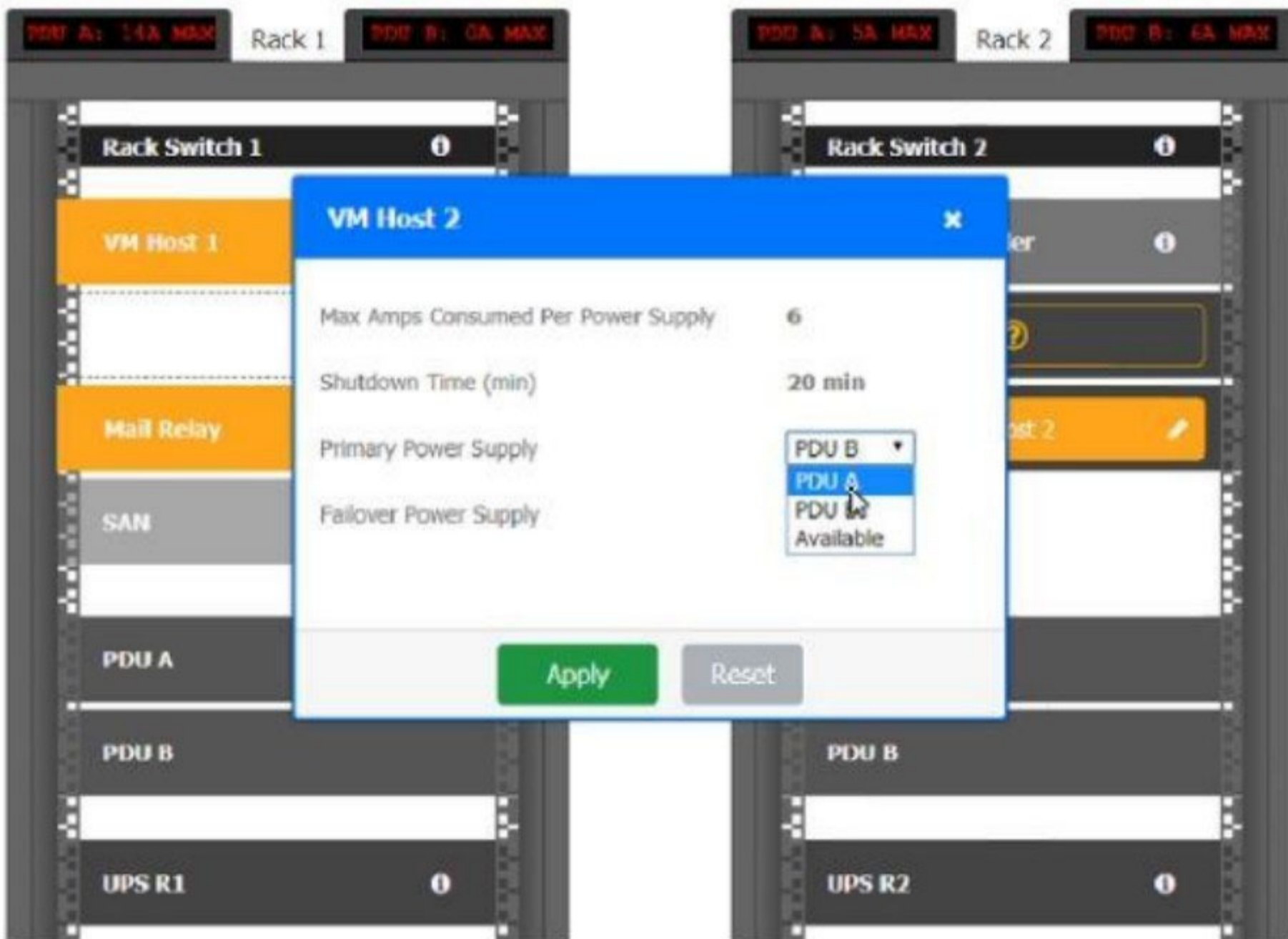
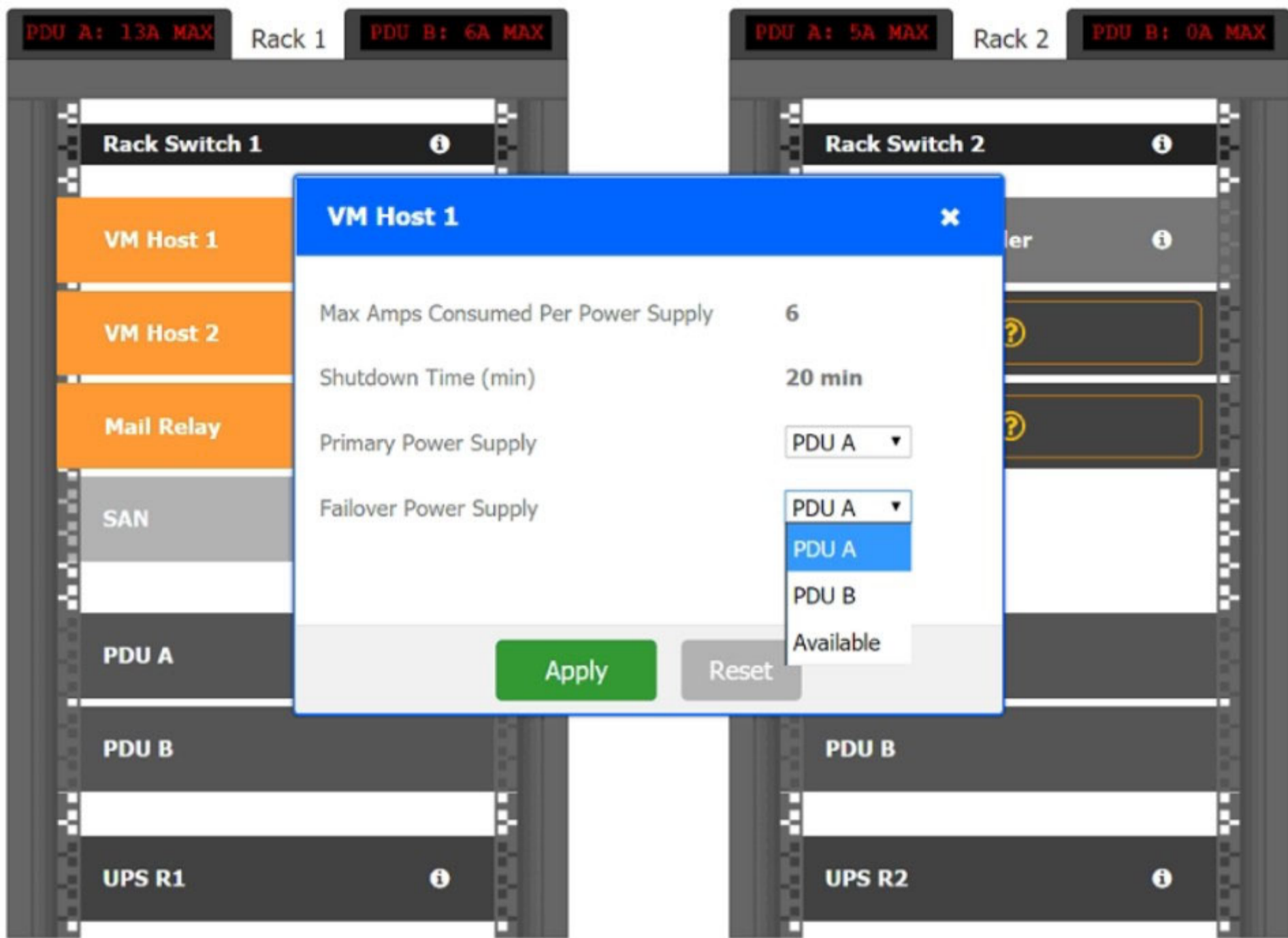
Instructions -
Ensure power redundancy is implemented throughout each rack and UPS alarms are resolved. Ensure the maximum potential PDU consumption does not exceed 80% (or 9.6A).
a. PDU selections must be changed using the penal icon.
b. VM Hosts 1 and 2 and Mail Relay can be moved between racks. c. Certain devices contain additional details.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.











PDU A: 13A MAX Rack 1 **PDU B: 6A MAX**

PDU A: 5A MAX Rack 2 **PDU B: 0A MAX**

VM Host 2

Max Amps Consumed Per Power Supply	6
Shutdown Time (min)	20 min
Primary Power Supply	PDU B
Failover Power Supply	PDU B

Apply Reset

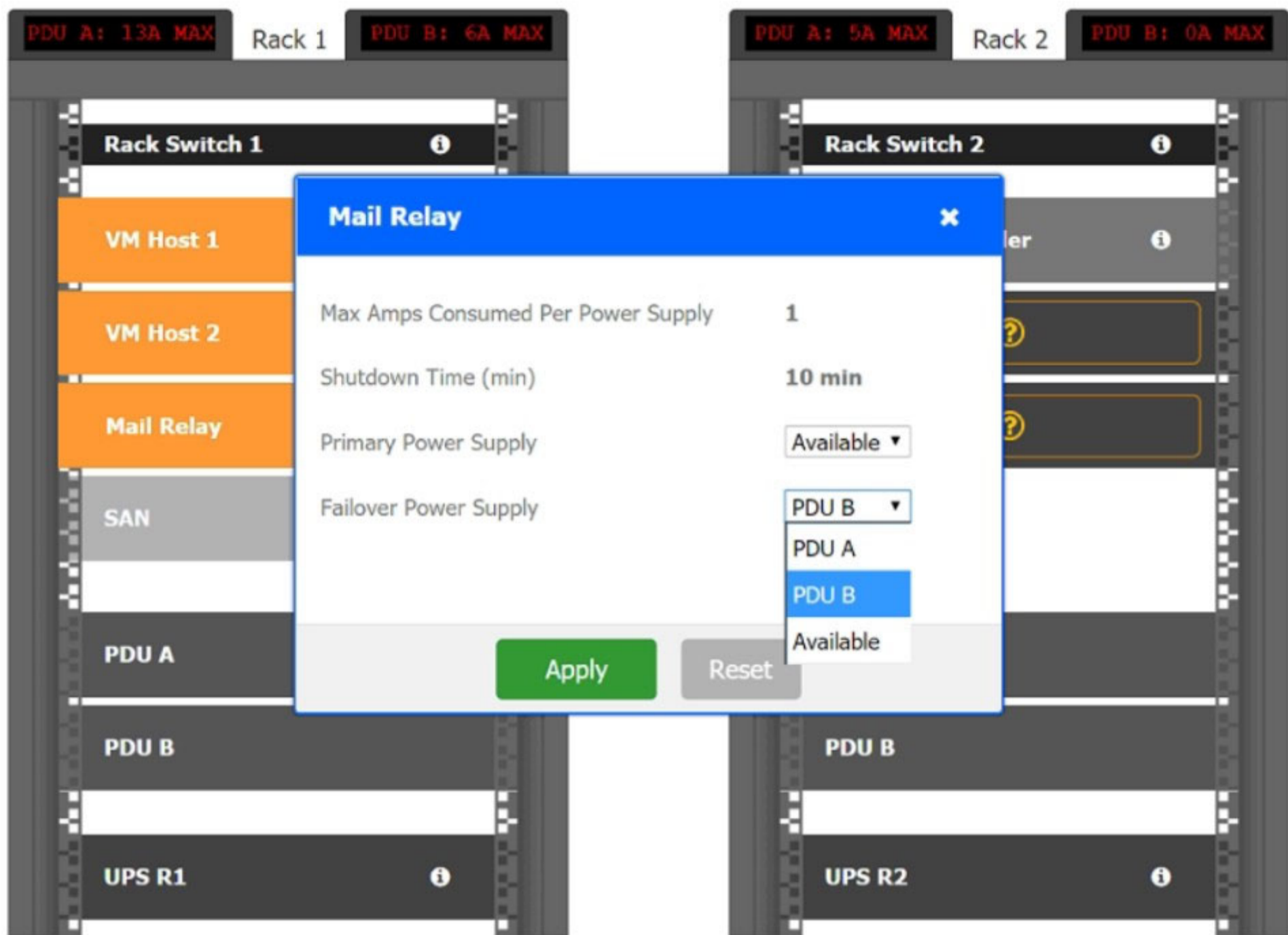
PDU A: 13A MAX Rack 1 **PDU B: 6A MAX**

PDU A: 5A MAX Rack 2 **PDU B: 0A MAX**

Mail Relay

Max Amps Consumed Per Power Supply	1
Shutdown Time (min)	10 min
Primary Power Supply	Available
Failover Power Supply	Available

Apply Reset



Answer : See explanation below.

1. Mailrelay - Keep the mail relay on the existing Rack1 and change the primary power supply to PDU-B and Failover powersupply as PDU B.
2. Move the VM Host 1 and VM Host2 to Rack2.
Assign primary power supply PDU A to VM host1
Assign Failover power supply PDU B to VM host1
Assign primary power supply PDU B to VM host2
Assign Failover power supply PDU A to VM host2

Question 105 (Single Topic)

A server administrator is creating a new server that will be used to house customer sales records. Which of the following roles will MOST likely be installed on the server?

- A. Print
- B. File
- C. Database
- D. Messaging

Answer : C

Question 106 (Single Topic)

A server administrator is deploying a UPS at a datacenter and notices the device is making an audible beep every few seconds. Which of the following is the MOST likely cause?

- A. The battery cable is disconnected
- B. The device is plugged into the wrong outlet
- C. The battery is faulty
- D. The serial cable is not connected

Answer : C

Question 107 (Single Topic)

A server technician is installing a new server OS on legacy server hardware. Which of the following should the technician do FIRST to ensure the OS will work as intended?

- A. Consult the HCL to ensure everything is supported
- B. Migrate the physical server to a virtual server
- C. Low-level format the hard drives to ensure there is no old data remaining
- D. Make sure the case and the fans are free from dust to ensure proper cooling

Answer : A

Question 108 (Single Topic)



An administrator is researching the upcoming licensing software requirements for an application that usually requires very little technical support. Which of the following licensing models would be the LOWEST cost solution?

- A. Open-source
- B. Per CPU socket
- C. Per CPU core
- D. Enterprise agreement

Answer : A

Question 109 (Single Topic)



Which of the following commands should a systems administrator use to create a batch script to map multiple shares?

- A. nbtstat
- B. net use
- C. tracert
- D. netstat

Answer : B

Question 110 (Single Topic)



An administrator is troubleshooting a failure in the datacenter in which a server shut down/powerd off when utility power was lost. The server had redundant power supplies. Which of the following is the MOST likely cause of this failure?

- A. The UPS batteries were overcharged
- B. Redundant power supplies require 220V power
- C. Both power supplies were connected to the same power feed
- D. The power supplies were not cross-connected

Answer : C

Question 111 (Single Topic)



Which of the following refers to the requirements that dictate when to delete data backups?

- A. Retention policies
- B. Cloud security impact
- C. Off-site storage
- D. Life-cycle management

Answer : A

Question 112 (Single Topic)



A server administrator has a system requirement to install the virtual OS on bare metal hardware. Which of the following hypervisor virtualization technologies should the administrator use to BEST meet the system requirements? (Choose two.)

- A. Host
- B. Template
- C. Clone
- D. Type 1
- E. Type 2
- F. Guest

Answer : DF

Question 113 (Single Topic)



A technician is troubleshooting a server issue. Which of the following should the technician do to ensure the solution can be duplicated in the future?

- A. Verify system functionality and implement preventive measures
- B. Document the findings, actions, and outcomes throughout the process
- C. Determine if there is a common element or symptom
- D. Notify the impacted users before implementing any changes

Answer : B

Question 114 (Single Topic)



Which of the following ensures a secondary network path is available if the primary connection fails?

- A. Link aggregation
- B. Most recently used
- C. Heartbeat
- D. Fault tolerance

Answer : A

Question 115 (Single Topic)



A developer is creating a web application that will contain five web nodes. The developer's main goal is to ensure the application is always available to the end users. Which of the following should the developer use when designing the web application?

- A. Round robin
- B. Link aggregation
- C. Network address translation
- D. Bridged networking

Answer : A

Question 116 (Single Topic)



Which of the following is the MOST secure method to access servers located in remote branch offices?

- A. Use an MFA out-of-band solution
- B. Use a Telnet connection
- C. Use a password complexity policy
- D. Use a role-based access policy

Answer : A

Question 117 (Single Topic)



A server administrator is installing a new server that uses 40Gb network connectivity. The administrator needs to find the proper cables to connect the server to the switch. Which of the following connectors should the administrator use?

- A. SFP+
- B. GBIC
- C. SFP
- D. QSFP+

Answer : D

Question 118 (Single Topic)



A technician is laying out a filesystem on a new Linux server. Which of the following tools would work BEST to allow the technician to increase a partition's size in the future without reformatting it?

- A. LVM
- B. DiskPart
- C. fdisk
- D. Format

Answer : A

Question 119 (Single Topic)



Which of the following should be placed at the top of a Bash script to ensure it can be executed?

- A. bash
- B. !execute
- C. #!
- D. @echo off

Answer : C

Question 120 (Single Topic)



A systems administrator has several different types of hard drives. The administrator is setting up a NAS that will allow end users to see all the drives within the NAS. Which of the following storage types should the administrator use?

- A. RAID array
- B. Serial Attached SCSI
- C. Solid-state drive
- D. Just a bunch of disks

Answer : D

Question 121 (Single Topic)



Which of the following is the BEST action to perform before applying patches to one of the hosts in a high availability cluster?

- A. Disable the heartbeat network.
- B. Fallback cluster services.
- C. Set the cluster to active-active.
- D. Failover all VMs.

Answer : B

Question 122 (Single Topic)



A server administrator is deploying a new server that has two hard drives on which to install the OS. Which of the following RAID configurations should be used to provide redundancy for the OS?

- A. RAID 0
- B. RAID 1
- C. RAID 5
- D. RAID 6

Answer : B

Question 123 (Single Topic)



A systems administrator has been alerted to a zero-day vulnerability that is impacting a service enabled on a server OS. Which of the following would work BEST to limit an attacker from exploiting this vulnerability?

- A. Installing the latest patches
- B. Closing open ports
- C. Enabling antivirus protection
- D. Enabling a NIDS

Answer : D

Question 124 (Single Topic)



A technician is checking a server rack. Upon entering the room, the technician notices the fans on a particular server in the rack are running at high speeds. This is the only server in the rack that is experiencing this behavior. The ambient temperature in the room appears to be normal. Which of the following is the MOST likely reason why the fans in that server are operating at full speed?

- A. The server is in the process of shutting down, so fan speed operations have been defaulted to high.
- B. An incorrect fan size was inserted into the server, and the server has had to increase the fan speed to compensate.
- C. A fan failure has occurred, and the other fans have increased speed to compensate.
- D. The server is utilizing more memory than the other servers, so it has increased the fans to compensate.

Answer : C

Question 125 (Single Topic)



A server administrator is installing an OS on a new server. Company policy states no one is to log in directly to the server. Which of the following installation methods is BEST suited to meet the company policy?

- A. GUI
- B. Core
- C. Virtualized
- D. Clone

Answer : B

Question 126 (Single Topic)



Which of the following licenses would MOST likely include vendor assistance?

- A. Open-source
- B. Version compatibility
- C. Subscription
- D. Maintenance and support

Answer : D

Question 127 (Single Topic)



A company wants to deploy software to all users, but very few of them will be using the software at any one point in time. Which of the following licensing models would be BEST for the company?

- A. Per site
- B. Per concurrent user
- C. Per core
- D. Per instance

Answer : B

Question 128 (Single Topic)



A technician is setting up a physical server that will be used to store sensitive data. The technician plans to set up the internal hard drives in a RAID 5 array for redundancy. Which of the following would be the BEST type of interface for the technician to use?

- A. SAS
- B. USB
- C. SD
- D. eSATA

Answer : A

Question 129 (Single Topic)



A technician is working on a Linux server. The customer has reported that files in the home directory are missing. The /etc/fstab file has the following entry: `nfsserver:/home /home nfs defaults o 0`
However, a `df -h /home` command returns the following information:
`/dev/sda2 10G 1G 9G 10% /home`
Which of the following should the technician attempt FIRST to resolve the issue?

- A. `mkdir /home`
- B. `umount nfsserver:/home`
- C. `rmdir nfsserver:/home/dev/sda2`
- D. `mount /home`

Answer : D

Question 130 (Single Topic)



A company is reviewing options for its current disaster recovery plan and potential changes to it. The security team will not allow customer data to egress to non- company equipment, and the company has requested recovery in the shortest possible time. Which of the following will BEST meet these goals?

- A. A warm site
- B. A hot site
- C. Cloud recovery
- D. A cold site

Answer : A

Question 131 (Single Topic)



Which of the following encryption methodologies would MOST likely be used to ensure encrypted data cannot be retrieved if a device is stolen?

- A. End-to-end encryption
- B. Encryption in transit
- C. Encryption at rest
- D. Public key encryption

Answer : C

Question 132 (Single Topic)



A company stores extremely sensitive data on an air-gapped system. Which of the following can be implemented to increase security against a potential insider threat?

- A. Two-person integrity
- B. SSO
- C. SIEM
- D. Faraday cage
- E. MFA

Answer : A

Question 133 (Single Topic)



Which of the following can be used to map a network drive to a user profile?

- A. System service
- B. Network service
- C. Login script
- D. Kickstart script

Answer : C

Question 134 (Single Topic)



A server shut down after an extended power outage. When power was restored, the system failed to start. A few seconds into booting, the Num Lock, Scroll Lock, and Caps Lock LEDs flashed several times, and the system stopped. Which of the following is the MOST likely cause of the issue?

- A. The keyboard is defective and needs to be replaced.
- B. The system failed before the display card initialized.
- C. The power supply is faulty and is shutting down the system.
- D. The NIC has failed, and the system cannot make a network connection.

Answer : C

Question 135 (Single Topic)



A systems administrator is investigating a server with a RAID array that will not boot into the OS. The administrator notices all the hard drives are reporting to be offline. The administrator checks the RAID controller and verifies the configuration is correct. The administrator then replaces one of the drives with a known-good drive, but it appears to be unavailable as well. Next, the administrator takes a drive out of the server and places it in a spare server, and the drive is available and functional. Which of the following is MOST likely causing the issue?

- A. The kernel is corrupt.
- B. Resources are misallocated.
- C. The backplane has failed.
- D. The drives need to be reseated.

Answer : C

Question 136 (Single Topic)



Which of the following techniques can be configured on a server for network redundancy?

- A. Clustering
- B. Virtualizing
- C. Cloning
- D. Teaming

Answer : D

Question 137 (Single Topic)



A server has experienced several component failures. To minimize downtime, the server administrator wants to replace the components while the server is running. Which of the following can MOST likely be swapped out while the server is still running? (Choose two.)

- A. The power supply
- B. The CPU
- C. The hard drive
- D. The GPU
- E. The cache
- F. The RAM

Answer : AC

Question 138 (Single Topic)



An administrator is configuring a host-based firewall for a server. The server needs to allow SSH, FTP, and LDAP traffic. Which of the following ports must be configured so this traffic will be allowed? (Choose three.)

- A. 21
- B. 22
- C. 53
- D. 67
- E. 69
- F. 110
- G. 123
- H. 389

Answer : ABH

Question 139 (Single Topic)



A technician needs to configure a server's RAID array for maximum capacity. Which of the following RAID levels BEST meets this requirement?

- A. 0
- B. 1
- C. 5
- D. 6

Answer : A

Question 140 (Single Topic)



A user is unable to modify files on a Windows fileshare. A technician examines the system and determines the user is a member of Group A. Group A was granted full control over the files. Which of the following is MOST likely causing the access issues?

- A. SIEM policies
- B. IDS rules
- C. Share permissions
- D. Firewall ports

Answer : C

Question 141 (Single Topic)



Users are experiencing issues when trying to access resources on multiple servers. The servers are virtual and run on an ESX server. A systems administrator is investigating but is unable to connect to any of the virtual servers. When the administrator connects to the host, a purple screen with white letters appears. Which of the following troubleshooting steps should the administrator perform FIRST?

- A. Check the power supplies.
- B. Review the log files.
- C. Reinstall the ESX server.

D. Reseat the processors.

Answer : B

Question 142 (Single Topic)



Joe, a technician, wants to configure a server's networking information so he will no longer need to maintain a list of names and IP addresses in a file on the server. Which of the following will work BEST to accomplish this task?

- A. DHCP
- B. Hosts file
- C. DNS
- D. VLAN

Answer : A

Question 143 (Single Topic)



A server administrator added a new drive to a server. However, the drive is not showing up as available. Which of the following does the administrator need to do to make the drive available?

- A. Partition the drive.
- B. Create a new disk quota.
- C. Configure the drive as dynamic.
- D. Set the compression.

Answer : C

Question 144 (Single Topic)



Which of the following are measures that should be taken when a data breach occurs? (Choose two.)

- A. Restore the data from backup.
- B. Disclose the incident.
- C. Disable unnecessary ports.
- D. Run an antivirus scan.
- E. Identify the exploited vulnerability.
- F. Move the data to a different location.

Answer : CE

Question 145 (Single Topic)



A technician is building a lab to learn storage redundancy techniques. Which of the following is the MOST cost-effective method the technician can deploy?

- A. FCoE
- B. Hardware RAID
- C. Software RAID
- D. JBOD

Answer : D

Question 146 (Single Topic)



A Linux administrator created a script that will run at startup. After successfully writing the script, the administrator received the following output when trying to execute the script: hash: ./startUp.sh: Permission denied

Which of the following commands would BEST resolve the error message?

- A. `chmod +w startUp.sh`
- B. `chmod 444 startUp.sh`
- C. `chmod +x startUp.sh`
- D. `chmod 466 startUp.sh`

Answer : C

Question 147 (Single Topic)



Due to a recent application migration, a company's current storage solution does not meet the necessary requirements for hosting data without impacting performance when the data is accessed in real time by multiple users. Which of the following is the BEST solution for this issue?

- A. Install local external hard drives for affected users.
- B. Add extra memory to the server where data is stored.
- C. Compress the data to increase available space.
- D. Deploy a new Fibre Channel SAN solution.

Answer : D

Question 148 (Single Topic)



Which of the following, if properly configured, would prevent a user from installing an OS on a server? (Choose two.)

- A. Administrator password
- B. Group Policy Object
- C. Root password
- D. SELinux
- E. Bootloader password
- F. BIOS/UEFI password

Answer : EF

Question 149 (Single Topic)



A server administrator is completing an OS installation for a new server. The administrator patches the server with the latest vendor-suggested software, configures DHCP, and verifies all network cables are properly connected in the IDF, but there is no network connectivity. Which of the following is the MOST likely reason for the lack of connectivity?

- A. The VLAN is improperly configured.
- B. The DNS configuration is invalid.
- C. The OS version is not compatible with the network switch vendor.
- D. The HIDS is preventing the connection.

Answer : A

Question 150 (Single Topic)



Which of the following technologies would allow an administrator to build a software RAID on a Windows server?

- A. Logical volume management
- B. Dynamic disk
- C. GPT
- D. UEFI

Answer : A

Question 151 (Single Topic)



A technician discovers a Linux server cannot mount an NFS share. The following error message occurs after a mount server:/test /mnt/test command: mount point /mnt/test does not exist. Which of the following should the technician perform FIRST?

- A. Execute ping server.
- B. Execute mkdir -p /mnt/test.
- C. Ensure the server firewall is turned off.
- D. Ensure server: /test is an exported NFS share.

Answer : B

Question 152 (Single Topic)



Which of the following BEST describes a warm site?

- A. The site has all infrastructure and live data.
- B. The site has all infrastructure and some data.
- C. The site has partially redundant infrastructure and no network connectivity.
- D. The site has partial infrastructure and some data.

Answer : D

Question 153 (Single Topic)



A technician is trying to reach abc.intranet.com but is unable to do so by name. The technician is able to reach it by IP address, though. Which of the following is MOST likely misconfigured?

- A. The VLAN
- B. The DNS
- C. The subnet mask
- D. The default gateway

Answer : B

Question 154 (Single Topic)



Which of the following BEST describes the metric that is used to measure server downtime?

- A. MTTR
- B. BIA
- C. RPO
- D. SLA

Answer : A

Question 155 (Single Topic)



A server administrator has connected a new server to the network. During testing, the administrator discovers the server is not reachable via server name but can be accessed by IP address. Which of the following steps should the server administrator take NEXT? (Choose two.)

- A. Check the default gateway.
- B. Check the route tables.
- C. Check the hosts file.
- D. Check the DNS server.
- E. Run the ping command.
- F. Run the tracert command.

Answer : AD

Question 156 (Single Topic)



A datacenter in a remote location lost power. The power has since been restored, but one of the servers has not come back online. After some investigation, the server is found to still be powered off. Which of the following is the BEST method to power on the server remotely?

- A. Crash cart
- B. Out-of-band console
- C. IP KVM
- D. RDP

Answer : B

Question 157 (Single Topic)



An administrator needs to disable root login over SSH. Which of the following files should be edited to complete this task?

- A. /root/.ssh/sshd_config
- B. /etc/ssh/sshd_config
- C. /root/.ssh/ssh_config
- D. /etc/ssh/ssh_config

Answer : B

Question 158 (Single Topic)



Users cannot access a new server by name, but the server does respond to a ping request using its IP address. All the user workstations receive their IP information from a DHCP server. Which of the following would be the best step to perform NEXT?

- A. Run the tracert command from a workstation.
- B. Examine the DNS to see if the new server record exists.
- C. Correct the missing DHCP scope.
- D. Update the workstation hosts file.

Answer : B

Question 159 (Single Topic)



A technician has several possible solutions to a reported server issue. Which of the following BEST represents how the technician should proceed with troubleshooting?

- A. Determine whether there is a common element in the symptoms causing multiple problems.
- B. Perform a root cause analysis.
- C. Make one change at a time and test.
- D. Document the findings, actions, and outcomes throughout the process.

Answer : A

Question 160 (Single Topic)



A server administrator needs to replace a 4U rack-mounted device. Which of the following is the BEST way to install the device to ensure proper safety measures?

- A. Lift with the arms while bending the knees.
- B. Use a server lift.
- C. Use a rolling cart.
- D. Lift the device with the help of another administrator.

Answer : C

Question 161 (Single Topic)



A server technician notices a server is very low on disk space. Upon inspecting the disk utilization, the technician discovers server logs are taking up a large amount of space. There is no central log server. Which of the following would help free up disk space?

- A. Log rotation
- B. Log shipping
- C. Log alerting
- D. Log analysis

Answer : A

Question 162 (Single Topic)



A new Windows server has been introduced to the network. The server administrator is trying to connect remotely to the server but is unsuccessful. Basic troubleshooting shows the server is visible on the network. Which of the following should be configured on the server to be able to connect remotely? (Choose two.)

- A. Remote desktop connection
- B. Remote procedure call
- C. Remote assistance
- D. Port 443
- E. Port 3389
- F. Port 5900

Answer : AE

Question 163 (Single Topic)



A server room with many racks of servers is managed remotely with occasional on-site support. Which of the following would be the MOST cost-effective option to administer and troubleshoot network problems locally on the servers?

- A. Management port
- B. Crash cart
- C. IP KVM
- D. KVM

Answer : C

Question 164 (Single Topic)



A technician is attempting to reboot a remote physical Linux server. However, attempts to command a shutdown --now result in the loss of the SSH connection. The server still responds to pings. Which of the following should the technician use to command a remote shutdown?

- A. A virtual serial console
- B. A KVM
- C. An iDRAC
- D. A crash cart

Answer : C

Question 165 (Single Topic)



An administrator has been asked to verify that all traffic egressing from a company is secured. The administrator confirms all the information that is sent over the network is encrypted. Which of the following describes the type of traffic being encrypted?

- A. Network encapsulation
- B. Off-site data
- C. Secure FTP
- D. Data in transit

Answer : D

Question 166 (Single Topic)



Which of the following BEST describes a disaster recovery site with a target storage array that receives replication traffic and servers that are only powered on in the event of a disaster?

- A. Cloud
- B. Cold
- C. Hot
- D. Warm

Answer : D

Question 167 (Single Topic)



An administrator is investigating a physical server that will not boot into the OS. The server has three hard drives configured in a RAID 5 array. The server passes POST, but the OS does not load. The administrator verifies the CPU and RAM are both seated correctly and checks the dual power supplies. The administrator then verifies all the BIOS settings are correct and connects a bootable USB drive in the server, and the OS loads correctly. Which of the following is causing the issue?

- A. The page file is too small.
- B. The CPU has failed.
- C. There are multiple failed hard drives.
- D. There are mismatched RAM modules.
- E. RAID 5 requires four drives.

Answer : C

Question 168 (Single Topic)



Which of the following load-balancing methods would be BEST described as each connection selecting the next path?

- A. Least connection
- B. Source hashed
- C. Most recently used
- D. Round robin

Answer : D

Question 169 (Single Topic)



Which of the following should be configured in pairs on a server to provide network redundancy?

- A. MRU
- B. SCP
- C. DLP
- D. CPU
- E. NIC

Answer : C

Question 170 (Single Topic)



Which of the following BEST describes a security control that requires validating the user's physical characteristics?

- A. OTP
- B. Biometrics
- C. RFID
- D. Security cameras

Answer : B

Question 171 (Single Topic)



An administrator has set up a GPO to disable USB drive access on a company's servers. The GPO is set up as a computer configuration policy and does not use security groups filtering. The administrator is testing to ensure the policy is working correctly. A server in the accounting OU works as expected, but a server in the sales OU is still allowing access to USB drives. The administrator runs the gpupdate /force command and tries again; however, the server still allows access to the USB drive.

Which of the following is the MOST likely cause?

- A. The WMI filter is not configured properly.
- B. Item-level targeting is not configured properly.
- C. The scope is not configured properly.
- D. Loopback processing is not configured properly.

Answer : B

Question 172 (Single Topic)



A technician recently applied a patch to a working server. After rebooting, the technician notices the server is unable to connect to a nearby database server. The technician validates a connection can be made to the database from another host.

Which of the following is the best NEXT step to restore connectivity?

- A. Enable HIDS.
- B. Change the service account permissions.
- C. Check the firewall rules.
- D. Roll back the applied patch.

Answer : B

Question 173 (Single Topic)



Users report they are unable to access an application after a recent third-party patch update. The physical server that is hosting the application keeps crashing on reboot. Although the update was installed directly from the manufacturer's support website as recommended, it has now been recalled and removed from the website, as the update unintentionally installed unauthorized software after a reboot.

Which of the following steps should the administrator perform to restore access to the application while minimizing downtime? (Choose two.)

- A. Uninstall recent updates.
- B. Reimage the server with a different OS.
- C. Run a port scan to verify open ports.
- D. Enable a GPO to uninstall the update.
- E. Scan and remove any malware.
- F. Reformat the server and restore the image from the latest backup.

Answer : BC

Question 174 (Single Topic)



An administrator is only able to log on to a server with a local account. The server has been successfully joined to the domain and can ping other servers by IP address.

Which of the following locally defined settings is MOST likely misconfigured?

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

Answer : C

Question 175 (Single Topic)



A server technician downloaded new firmware from the manufacturer's website. The technician then attempted to install the firmware on the server, but the installation failed, stating the file is potentially corrupt.

Which of the following should the technician have checked prior to installing the firmware?

- A. DLP configuration
- B. MBR failure
- C. ECC support
- D. MD5 checksum

Answer : D

Question 176 (Single Topic)



Which of the following is a system that scans outgoing email for account numbers, sensitive phrases, and other forms of PII?

- A. SIEM
- B. DLP
- C. HIDS
- D. IPS

Answer : B

Question 177 (Single Topic)



Which of the following BEST describes overprovisioning in a virtual server environment?

- A. Committing more virtual resources to virtual machines than there are physical resources present
- B. Installing more physical hardware than is necessary to run the virtual environment to allow for future expansion
- C. Allowing a virtual machine to utilize more resources than are allocated to it based on the server load
- D. Ensuring there are enough physical resources to sustain the complete virtual environment in the event of a host failure

Answer : A

Question 178 (Single Topic)



An administrator is alerted to a hardware failure in a mission-critical server. The alert states that two drives have failed. The administrator notes the drives are in different RAID 1 arrays, and both are hot-swappable.

Which of the following steps will be the MOST efficient?

- A. Replace one drive, wait for a rebuild, and replace the next drive.
- B. Shut down the server and replace the drives.
- C. Replace both failed drives at the same time.
- D. Replace all the drives in both degraded arrays.

Answer : A

Question 179 (Single Topic)



A systems administrator is trying to determine why users in the human resources department cannot access an application server. The administrator reviews the application logs but does not see any attempts by the users to access the application.

Which of the following is preventing the users from accessing the application server?

- A. NAT
- B. ICMP
- C. VLAN
- D. NIDS

Answer : B

Question 180 (Single Topic)



An administrator discovers a Bash script file has the following permissions set in octal notation:

777

Which of the following is the MOST appropriate command to ensure only the root user can modify and execute the script?

- A. `chmod go-rwx`

- B. chmod u=rwx
- C. chmod u+wx
- D. chmod g-rwx

Answer : A

Question 181 (Single Topic)



A security technician generated a public/private key pair on a server. The technician needs to copy the key pair to another server on a different subnet.

Which of the following is the MOST secure method to copy the keys?

- A. HTTP
- B. FTP
- C. SCP
- D. USB

Answer : C

Question 182 (Single Topic)



A server administrator purchased a single license key to use for all the new servers that will be imaged this year. Which of the following MOST likely refers to the licensing type that will be used?

- A. Per socket
- B. Open-source
- C. Per concurrent user
- D. Volume

Answer : D

Question 183 (Single Topic)



A technician is attempting to log in to a Linux server as root but cannot remember the administrator password. Which of the following is the LEAST destructive method of resetting the administrator password?

- A. Boot using a Linux live CD and mount the hard disk to /mnt. Change to the /mnt/etc directory. Edit the passwd file found in that directory.
- B. Reinstall the OS in overlay mode. Reset the root password from the install GUI screen.
- C. Adjust the GRUB boot parameters to boot into single-user mode. Run passwd from the command prompt.
- D. Boot using a Linux live CD and mount the hard disk to /mnt. SCP the /etc directory from a known accessible server to /mnt/etc.

Answer : C

Question 184 (Single Topic)



A technician noted the RAID hard drives were functional while troubleshooting a motherboard failure. The technician installed a spare motherboard with similar specifications and used the original components.

Which of the following should the technician do to restore operations with minimal downtime?

- A. Reinstall the OS and programs.
- B. Configure old drives to RAID.
- C. Reconfigure the RAID.
- D. Install from backup.

Answer : C

Question 185 (Single Topic)



A server administrator is trying to determine the cause of a slowdown on a database server. Upon investigation, the administrator determines the issue is in the storage subsystem.

Which of the following will MOST likely resolve this issue?

- A. Increasing IOPS by implementing flash storage
- B. Implementing deduplication on the storage
- C. Extending capacity by installing a 4TB SATA disk
- D. Reformatting the disk as FAT32

Answer : A

Question 186 (Single Topic)



A server administrator made a change in a server's BIOS in an attempt to fix an issue with the OS not turning on. However, the change did not successfully correct the issue.

Which of the following should the server administrator do NEXT?

- A. Reinstall the server OS in repair mode while maintaining the data.
- B. Flash the BIOS with the most recent version.
- C. Reverse the latest change made to the server and reboot.
- D. Restart the server into safe mode and roll back changes.

Answer : C

Question 187 (Single Topic)



Which of the following BEST describes a guarantee of the amount of time it will take to restore a downed service?

- A. RTO
- B. SLA
- C. MTBF
- D. MTTR

Answer : B

Question 188 (Single Topic)



An administrator is investigating several unexpected documents and video files that recently appeared in a network share. The administrator checks the properties of the files and sees the author's name on the documents is not a company employee. The administrator questions the other users, but no one knows anything about the files. The administrator then checks the log files and discovers the FTP protocol was used to copy the files to the server.

Which of the following needs to be done to prevent this from happening again?

- A. Implement data loss prevention.
- B. Configure intrusion detection.
- C. Turn on User Account Control.
- D. Disable anonymous access.

Answer : D

Question 189 (Single Topic)



A technician is monitoring a server and notices there is only one NIC plugged in, but the server has two. The NIC is oversaturated, and the technician would like to increase the available bandwidth.

Which of the following solutions would be the BEST option to increase the speed of this NIC?

- A. Link aggregation
- B. Heartbeat
- C. Most recently used
- D. Active-active

Answer : A

Question 190 (Single Topic)



An administrator is troubleshooting performance issues on a server that was recently upgraded. The administrator met with users/stakeholders and documented recent changes in an effort to determine whether the server is better or worse since the changes.

Which of the following would BEST help answer the server performance question?

- A. Server performance thresholds
- B. A server baseline
- C. A hardware compatibility list
- D. An application service-level agreement

Answer : B

Question 191 (Single Topic)



A junior administrator needs to configure a single RAID 5 volume out of four 200GB drives attached to the server using the maximum possible capacity. Upon completion, the server reports that all drives were used, and the approximate volume size is 400GB.

Which of the following BEST describes the result of this configuration?

- A. RAID 0 was configured by mistake.
- B. RAID 5 was configured properly.
- C. JBOD was configured by mistake.
- D. RAID 10 was configured by mistake.

Answer : B

Question 192 (Single Topic)



A backup application is copying only changed files each time it runs. During a restore, however, only a single file is used.

Which of the following backup methods does this describe?

- A. Open file
- B. Synthetic full
- C. Full incremental
- D. Full differential

Answer : C

Question 193 (Single Topic)



A very old PC is running a critical, proprietary application in MS-DOS. Administrators are concerned about the stability of this computer. Installation media has been lost, and the vendor is out of business.

Which of the following would be the BEST course of action to preserve business continuity?

- A. Perform scheduled chkdsk tests.
- B. Purchase matching hardware and clone the disk.
- C. Upgrade the hard disk to SSD.
- D. Perform quarterly backups.

Answer : B

Question 194 (Single Topic)



An administrator is troubleshooting a RAID issue in a failed server. The server reported a drive failure, and then it crashed and would no longer turn on. There are two arrays on the failed server: a two-drive RAID 0 set for the OS, and an eight-drive RAID 10 set for data.

Which of the following failure scenarios MOST likely occurred?

- A. A drive failed in the OS array.
- B. A drive failed and then recovered in the data array.
- C. A drive failed in both of the arrays.
- D. A drive failed in the data array.

Answer : A

Question 195 (Single Topic)



A security manager is concerned that a rogue employee could boot a server from an outside USB drive. Which of the following actions can be taken to reduce this risk? (Choose two.)

- A. Close unneeded ports.
- B. Disable unneeded physical ports.
- C. Set a BIOS password.
- D. Install a SIEM.
- E. Disable unneeded services.
- F. Install a HIDS.

Answer : BC

Question 196 (Single Topic)



A server administrator is setting up a new payroll application. Compliance regulations require that all financial systems logs be stored in a central location.

Which of the following should the administrator configure to ensure this requirement is met?

- A. Alerting
- B. Retention
- C. Shipping
- D. Rotation

Answer : C

Question 197 (Single Topic)



Which of the following concepts is in use when dual power supplies are connected to different power sources?

- A. Fault tolerance
- B. Active-passive
- C. Component redundancy
- D. Heartbeat
- E. Link aggregation

Answer : A

Question 198 (Single Topic)



A technician is decommissioning a server from a production environment. The technician removes the server from the rack but then decides to repurpose the system as a lab server instead of decommissioning it.

Which of the following is the most appropriate NEXT step to recycle and reuse the system drives?

- A. Reinstall the OS.
- B. Wipe the drives.
- C. Degauss the drives.
- D. Update the IP schema.

Answer : B

Question 199 (Single Topic)



A server administrator wants to ensure a storage array can survive the failure of two drives without the loss of data. Which of the following RAID levels should the administrator choose?

- A. 0
- B. 1
- C. 5
- D. 6

Answer : D

Question 200 (Single Topic)



After the installation of an additional network card into a server, the server will not boot into the OS. A technician tests the network card in a different server with a different OS and verifies the card functions correctly.

Which of the following should the technician do NEXT to troubleshoot this issue?

- A. Remove the original network card and attempt to boot using only the new network card.
- B. Check that the BIOS is configured to recognize the second network card.
- C. Ensure the server has enough RAM to run a second network card.
- D. Verify the network card is on the HCL for the OS.

Answer : B

Question 201 (Single Topic)




A server room contains ten physical servers that are running applications and a cluster of three dedicated hypervisors. The hypervisors are new and only have 10% utilization. The Chief Financial Officer has asked that the IT department do what it can to cut back on power consumption and maintenance costs in the data center.

Which of the following would address the request with minimal server downtime?

- A. Unplug the power cables from the redundant power supplies, leaving just the minimum required.
- B. Convert the physical servers to the hypervisors and retire the ten servers.
- C. Reimage the physical servers and retire all ten servers after the migration is complete.
- D. Convert the ten servers to power-efficient core editions.

Answer : B


Question 202 (Single Topic) 

A company needs to increase the security controls on its servers. An administrator is implementing MFA on all servers using cost-effective techniques.

Which of the following should the administrator use to satisfy the MFA requirement?

- A. Biometrics
- B. Push notifications
- C. Smart cards
- D. Physical tokens

Answer : D

Question 203 (Single Topic) 

An organization implements split encryption keys for sensitive files. Which of the following types of risks does this mitigate?

- A. Hardware failure
- B. Malware
- C. Data corruption
- D. Insider threat

Answer : D

Question 204 (Single Topic) 

An administrator is installing a new file server that has four drive bays available. Which of the following RAID types would provide the MOST storage as well as disk redundancy?

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

Answer : D

Question 205 (Single Topic) 

A company's servers are all displaying the wrong time. The server administrator confirms the time source is correct.

Which of the following is MOST likely preventing the servers from obtaining the correct time?

- A. A firewall
- B. An antivirus
- C. A HIDS
- D. User account control

Answer : A

Question 206 (Single Topic) 

A server administrator encounters some issues with the server OS after applying monthly patches. Which of the following troubleshooting steps should the administrator perform?

- A. Implement rollback procedures.
- B. Upgrade the drivers.
- C. Reinstall the OS.
- D. Reboot the server.

Answer : A

Question 207 (Single Topic) 

An administrator notices that a file server is filling up quickly but has many of the same files in different directories. Which of the following storage management techniques would resolve this issue?

- A. Provisioning
- B. Encryption
- C. Deduplication
- D. Partitioning

Answer : C

Question 208 (Single Topic)



An administrator is configuring a new server for use as a database server. It will have two mirrored drives to hold the operating system, and there will be three drive bays remaining for storage.

Which of the following RAID levels will yield the BEST combination of available space and redundancy?

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

Answer : C

Question 209 (Single Topic)



Hosting data in different regional locations but not moving it for long periods of time describes:

- A. a cold site.
- B. data at rest.
- C. on-site retention.
- D. off-site storage.

Answer : B

Question 210 (Single Topic)



A technician learns users are unable to log in to a Linux server with known-working LDAP credentials. The technician logs in to the server with a local account and confirms the system is functional, can communicate over the network, and is configured correctly. However, the server log has entries regarding Kerberos errors.

Which of the following is the MOST likely source of the issue?

- A. A local firewall is blocking authentication requests.
- B. The users have expired passwords.
- C. The system clock is off by more than five minutes.
- D. The server has no access to the LDAP host.

Answer : C

Question 211 (Single Topic)



A senior administrator instructs a technician to run the following script on a Linux server:

```
for i in {1..65536}; do echo $i; telnet localhost $i; done
```

The script mostly returns the following message: Connection refused. However, there are several entries in the console display that look like this:

80

Connected to localhost -

443

Connected to localhost -

Which of the following actions should the technician perform NEXT?

- A. Look for an unauthorized HTTP service on this server.
- B. Look for a virus infection on this server.
- C. Look for an unauthorized Telnet service on this server.
- D. Look for an unauthorized port scanning service on this server.

Answer : A

Question 212 (Single Topic)



A VLAN needs to be configured within a virtual environment for a new VM. Which of the following will ensure the VM receives a correct IP address?

- A. A virtual router
- B. A host NIC
- C. AVPN
- D. A virtual switch

E. A vNIC

Answer : A

Question 213 (Single Topic)



A user logs in to a Linux server and attempts to run the following command:

```
sudo emacs /root/file
```

However, the user gets the following message:

User userid is not allowed to execute 'emacs' on this server.

Which of the following would BEST allow the user to find out which commands can be used?

- A. visudo | grep userid
- B. sudo -l -U userid
- C. cat /etc/passwd
- D. userlist | grep userid

Answer : B

Question 214 (Single Topic)



A server administrator is connecting a new storage array to a server. The administrator has obtained multiple IP addresses for the array.

Which of the following connection types is the server MOST likely using to connect to the array?

- A. eSATA
- B. USB
- C. FC
- D. iSCSI

Answer : D

Question 215 (Single Topic)



A newly installed server is accessible to local users, but remote users are unable to connect. Which of the following is MOST likely misconfigured?

- A. The IP address
- B. The default gateway
- C. The VLAN
- D. The subnet mask

Answer : B

Question 216 (Single Topic)



A company's security team has noticed employees seem to be blocking the door in the main data center when they are working on equipment to avoid having to gain access each time. Which of the following should be implemented to force the employees to enter the data center properly?

- A. A security camera
- B. A mantrap
- C. A security guard
- D. A proximity card

Answer : B

Question 217 (Single Topic)



Users are able to connect to the wireless network, but they are unable to access the internet. The network administrator verifies connectivity to all network devices, and there are no ISP outages. The server administrator removes the old address leases from the active leases pool, which allows users to access the internet.

Which of the following is MOST likely causing the internet issue?

- A. The DHCP exclusion needs to be removed.
- B. The DHGP scope is full.
- C. The DHCP scope options are misconfigured.
- D. The DHCP lease times are too short.
- E. The DHCP reservations need to be configured.

Answer : B

Question 218 (Single Topic)



Which of the following commands would MOST likely be used to register a new service on a Windows OS?

- A. set-service
- B. net
- C. sc
- D. services.msc

Answer : A

Question 219 (Single Topic)



An administrator receives an alert stating a S.M.A.R.T. error has been detected. Which of the following should the administrator run FIRST to determine the issue?

- A. A hard drive test
- B. A RAM test
- C. A power supply swap
- D. A firmware update

Answer : A

Question 220 (Single Topic)



A storage administrator needs to implement SAN-based shared storage that can transmit at 16Gb over an optical connection. Which of the following connectivity options would BEST meet this requirement?

- A. Fibre Channel
- B. FCoE
- C. iSCSI
- D. eSATA

Answer : A

Question 221 (Single Topic)



In which of the following media rotation schemes are daily, weekly, and monthly backup media utilized in a first-in, first-out method?

- A. Waterfall
- B. Synthetic full
- C. Tower of Hanoi
- D. Grandfather-father-son

Answer : D

Question 222 (Single Topic)



A company has a data center that is located at its headquarters, and it has a warm site that is located 20mi (32km) away, which serves as a DR location. Which of the following should the company design and implement to ensure its DR site is adequate?

- A. Set up the warm site as a DR cold site.
- B. Set up a DR site that is in the cloud and in the same region.
- C. Set up the warm site as a DR hot site.
- D. Set up a DR site that is geographically located in another region.

Answer : D

Question 223 (Single Topic)



Which of the following cloud models is BEST described as running workloads on resources that are owned by the company and hosted in a company-owned data center, as well as on rented servers in another company's data center?

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

D. Public

Answer : B

Question 224 (Single Topic)



Which of the following backup types resets the archive bit each time it is run?

- A. Differential
- B. Snapshot
- C. Incremental
- D. Synthetic full

Answer : C

Question 225 (Single Topic)



A server administrator is connecting a Linux server to a storage array. The administrator wants to use a file-based storage protocol to store data on the server. Which of the following protocols will the administrator MOST likely use?

- A. NFS
- B. FCoE
- C. iSCSI
- D. CIFS

Answer : A

Question 226 (Single Topic)



A hardware technician is installing 19 1U servers in a 42-unit rack. The technician needs to allocate enough space per server for optimal air flow.

Which of the following unit sizes should be allocated per server?

- A. 1U
- B. 2U
- C. 3U
- D. 4U

Answer : B

Question 227 (Single Topic)



A server administrator needs to ensure all Window-based servers within a data center have RDP disabled. There are thousands of servers performing various roles. Which of the following is the BEST way to meet this requirement?

- A. Run `chkconfig --level 345 RDP off`.
- B. Create a PowerShell script to disable the RDP service.
- C. Run `chkconfig --list RDP`.
- D. Create a Bash shell script to disable the Windows Remote Management service.
- E. Create a GPO to disable the Windows Remote Management service

Answer : B

Question 228 (Single Topic)



A server administrator is installing servers in a rack that does not have rack unit markings on the sides. The available open space for the new servers is approximately 3.5in (8.9cm) high. Which of the following is the LARGEST server size that can fit in this space?

- A. 1U
- B. 2U
- C. 3U
- D. 4U

Answer : A

Question 229 (Single Topic)



Which of the following backup types will MOST likely have a third party hosting the backup data?

- A. Tape
- B. Local
- C. Cloud
- D. Disk

Answer : C

Question 230 (Single Topic)



A staff member who is monitoring a data center reports one rack is experiencing higher temperatures than the racks next to it, despite the hardware in each rack being the same. Which of the following actions would MOST likely remediate the heat issue?

- A. Installing blanking panels in all the empty rack spaces
- B. Installing an additional PDU and spreading out the power cables
- C. Installing servers on the shelves instead of sliding rails
- D. Installing front bezels on all the servers in the rack

Answer : A

Question 231 (Single Topic)



An administrator is designing a server for use in a factory environment that contains many pieces of large electrical equipment. Which of the following would be the BEST type of cable for the administrator to use to minimize networking issues?

- A. Coaxial
- B. Cat 5
- C. Cat 6
- D. Fiber optic

Answer : D

Question 232 (Single Topic)



A junior administrator reported that the website used for anti-malware updates is not working. The senior administrator then discovered all requests to the anti-malware site are being redirected to a malicious site. Which of the following tools should the senior administrator check FIRST to identify the potential cause of the issue?

- A. Data loss prevention
- B. File integrity monitor
- C. Port scanner
- D. Sniffer

Answer : D

Question 233 (Single Topic)



A technician is deploying a new workstation. The workstation uses DHCP and can ping other devices on the same VLAN, but it cannot access anything on a different VLAN. Which of the following steps should the technician perform NEXT?

- A. Enable IPv6 on the workstation.
- B. Create a local hosts file.
- C. Examine the DHCP scope configuration.
- D. Configure an APIPA reservation.

Answer : C

Question 234 (Single Topic)



A server administrator is gathering business requirements to determine how frequently backups need to be performed on an application server. Which of the following is the administrator attempting to establish?

- A. MTBF
- B. RPO
- C. MTTR
- D. RFC

Answer : B

Question 235 (Single Topic)



The network's IDS is giving multiple alerts that unauthorized traffic from a critical application server is being sent to a known-bad public IP address. One of the alerts contains the following information:

Exploit Alert -

Attempted User Privilege Gain -

2/2/07-3:09:09 10.1.200.32 --> 208.206.12.9:80

This server application is part of a cluster in which two other servers are also servicing clients. The server administrator has verified the other servers are not sending out traffic to that public IP address. The IP address subnet of the application servers is 10.1.200.0/26. Which of the following should the administrator perform to ensure only authorized traffic is being sent from the application server and downtime is minimized? (Choose two.)

- A. Disable all services on the affected application server.
- B. Perform a vulnerability scan on all the servers within the cluster and patch accordingly.
- C. Block access to 208.206.12.9 from all servers on the network.
- D. Change the IP address of all the servers in the cluster to the 208.206.12.0/26 subnet.
- E. Enable GPO to install an antivirus on all the servers and perform a weekly reboot.
- F. Perform an antivirus scan on all servers within the cluster and reboot each server.

Answer : BC

Question 236 (Single Topic)



A technician has been tasked to install a new CPU. Prior to the installation, the server must be configured. Which of the following should the technician update?

- A. The RAID card
- B. The BIOS
- C. The backplane
- D. The HBA

Answer : B

Question 237 (Single Topic)



Which of the following is a type of replication in which all files are replicated, all of the time?

- A. Constant
- B. Application consistent
- C. Synthetic full
- D. Full

Answer : D

Question 238 (Single Topic)



A technician installed a kernel upgrade to a Linux server. The server now crashes regularly. Which of the following is the MOST likely cause?

- A. Necessary dependencies were installed for multiple architectures.
- B. There is not enough hard drive space.
- C. The server is infected with a virus.
- D. Some modules are not compatible.

Answer : D

Question 239 (Single Topic)



An application server cannot communicate with a newly installed database server. The database server, which has static IP information, is reading the following output from ipconfig:

IP: 10.0.10.240 -

Mask: 255.255.255.128 -

Gateway: 10.0.10.1 -

The application server is reading the following output from ipconfig:

IP: 10.0.10.25 -

Mask: 255.255.255.128 -

Gateway: 10.0.10.1 -

Which of the following MOST likely contains an error?

- A. IP address
- B. DHCP
- C. Gateway
- D. Subnet mask

Answer : A

Question 240 (Single Topic)



A technician is setting up a small office that consists of five Windows 10 computers. The technician has been asked to use a simple IP configuration without manually adding any IP addresses. Which of the following will the technician MOST likely use for the IP address assignment?

- A. Static
- B. Router-assigned
- C. APIPA
- D. DHCP

Answer : D

Question 241 (Single Topic)



Ann, an administrator, has been troubleshooting a server issue. She carefully questioned the users and examined the available logs. Using this information, she was able to rule out several possible causes and develop a theory as to what the issue might be. Through further testing, her theory proved to be correct. Which of the following should be the NEXT step to troubleshoot the issue?

- A. Document the findings and actions.
- B. Escalate the issue to the management team.
- C. Implement the solution.
- D. Establish an action plan

Answer : C

Question 242 (Single Topic)



Which of the following script types would MOST likely be used on a modern Windows server OS?

- A. Batch
- B. VBS
- C. Bash
- D. PowerShell

Answer : D

Question 243 (Single Topic)



Which of the following should a technician verify FIRST before decommissioning and wiping a file server?

- A. The media destruction method
- B. The recycling policy
- C. Asset management documentation
- D. Non-utilization

Answer : C

Question 244 (Single Topic)



A server administrator needs to implement load balancing without purchasing any new hardware or implementing any new software. Which of the following will the administrator MOST likely implement?

- A. Round robin
- B. Link aggregation
- C. Most recently used
- D. Heartbeat

Answer : A

Question 245 (Single Topic)



A technician is creating a network share that will be used across both Unix and Windows clients at the same time. Users need read and write access to the files. Which of the following would be BEST for the technician to deploy?

- A. iSCSI
- B. CIFS
- C. HTTPS
- D. DAS

Answer : B

Question 246 (Single Topic)



A technician is able to copy a file to a temporary folder on another partition but is unable to copy it to a network share or a USB flash drive. Which of the following is MOST likely preventing the file from being copied to certain locations?

- A. An ACL
- B. Antivirus
- C. DLP
- D. A firewall

Answer : C

Question 247 (Single Topic)



An administrator is helping to replicate a large amount of data between two Windows servers. The administrator is unsure how much data has already been transferred. Which of the following will BEST ensure all the data is copied consistently?

- A. rsync
- B. copy
- C. scp
- D. robocopy

Answer : D

Question 248 (Single Topic)



An administrator notices high traffic on a certain subnet and would like to identify the source of the traffic. Which of the following tools should the administrator utilize?

- A. Anti-malware
- B. Nbtstat
- C. Port scanner
- D. Sniffer

Answer : D

Question 249 (Single Topic)



Which of the following script types uses commands that start with Set-?

- A. Batch
- B. Bash
- C. PowerShell
- D. JavaScript

Answer : C

Question 250 (Single Topic)



A change in policy requires a complete backup of the accounting server every seven days and a backup of modified data every day. Which of the following would be BEST to restore a full backup as quickly as possible in the event of a complete loss of server data?

- A. A full, weekly backup with daily open-file backups
- B. A full, weekly backup with daily archive backups
- C. A full, weekly backup with daily incremental backups
- D. A full, weekly backup with daily differential backups

Answer : C

Question 251 (Single Topic)



An administrator has been asked to increase the storage capacity of a stand-alone file server, but no further expansion slots are available. Which of the following would be the FASTEST solution to implement with no downtime?

- A. Configure a RAID array.
- B. Replace the current drives with higher-capacity disks.
- C. Implement FCoE for more storage capacity.
- D. Connect the server to a SAN.

Answer : D

Question 252 (Single Topic)



A Linux server was recently updated. Now, the server stops during the boot process with a blank screen and an fs> prompt. Which of the following is the MOST likely cause of this issue?

- A. The system is booting to a USB flash drive.
- B. The UEFI boot was interrupted by a missing Linux boot file.
- C. The BIOS could not find a bootable hard disk.
- D. The BIOS firmware needs to be upgraded.

Answer : B

Question 253 (Single Topic)



A server technician arrives at a data center to troubleshoot a physical server that is not responding to remote management software. The technician discovers the servers in the data center are not connected to a KVM switch, and their out-of-band management cards have not been configured. Which of the following should the technician do to access the server for troubleshooting purposes?

- A. Connect the diagnostic card to the PCIe connector.
- B. Connect a console cable to the server NIC.
- C. Connect to the server from a crash cart.
- D. Connect the virtual administration console.

Answer : C

Question 254 (Single Topic)



Which of the following describes a configuration in which both nodes of a redundant system respond to service requests whenever possible?

- A. Active-passive
- B. Failover
- C. Active-active
- D. Failback

Answer : C

Question 255 (Single Topic)



Users have noticed a server is performing below baseline expectations. While diagnosing the server, an administrator discovers disk drive performance has degraded. The administrator checks the diagnostics on the RAID controller and sees the battery on the controller has gone bad. Which of the following is causing the poor performance on the RAID array?

- A. The controller has disabled the write cache.
- B. The controller cannot use all the available channels.
- C. The drive array is corrupt.
- D. The controller has lost its configuration.

Answer : A

Question 256 (Single Topic)



Which of the following licensing concepts is based on the number of logical processors a server has?

- A. Per core

- B. Per socket
- C. Per instance
- D. Per server

Answer : A

Question 257 (Single Topic)



A technician has received tickets reporting a server is responding slowly during business hours. Which of the following should the technician implement so the team will be informed of this behavior in real time?

- A. Log rotation
- B. Alerts
- C. Reports
- D. Log shipping

Answer : B

Question 258 (Single Topic)



A technician has moved a data drive from a new Windows server to an older Windows server. The hardware recognizes the drive, but the data is not visible to the OS. Which of the following is the MOST likely cause of the issue?

- A. The disk uses GPT.
- B. The partition is formatted with ext4.
- C. The partition is formatted with FAT32.
- D. The disk uses MBR.

Answer : A

Question 259 (Single Topic)



A server administrator is installing a new server in a data center. The administrator connects the server to a midplane but does not connect any cables. Which of the following types of servers is the administrator MOST likely installing?

- A. Rack
- B. Virtual
- C. Tower
- D. Blade

Answer : D

Question 260 (Single Topic)



Which of the following licensing models was created by software companies in response to the increasing density of processors?

- A. Per-instance
- B. Per-server
- C. Per-user
- D. Per-core

Answer : D

Question 261 (Single Topic)



A technician needs to restore data from a backup. The technician has these files in the backup inventory:

Name	Size
01012020.bak	100MB
01022020.bak	10MB
01032020.bak	5MB
01042020.bak	7MB
01052020.bak	120MB
01062020.bak	8MB
01072020.bak	10MB

Which of the following backup types is being used if the file 01062020.bak requires another file to restore data?

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

Answer : B

Question 262 (Single Topic)



The management team has mandated the use of data-at-rest encryption on all corporate servers. Using this encryption paradigm will ensure:

- A. website traffic is protected while traversing the internet.
- B. files stored on the server are protected against physical theft.
- C. attachments that are emailed from this server cannot be intercepted.
- D. databases in use are protected from remote hackers.

Answer : B

Question 263 (Single Topic)



Two developers are working together on a project, and they have built out a set of shared servers that both developers can access over the internet. Which of the following cloud models is this an example of?

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

Answer : D

Question 264 (Single Topic)



A server administrator has received calls regarding latency and performance issues with a file server. After reviewing all logs and server features, the administrator discovers the server came with four Ethernet ports, but only one port is currently in use. Which of the following features will enable the use of all available ports using a single IP address?

- A. Network address translation
- B. In-band management
- C. Round robin
- D. NIC teaming

Answer : D

Question 265 (Single Topic)



Joe, a user in the IT department, cannot save changes to a sensitive file on a Linux server. An `ls -la` shows the following listing:
`-rw-r--r 1 Ann IT 6780 12 June 2019 filename`

Which of the following commands would BEST enable the server technician to allow Joe to have access without granting excessive access to others?

- A. `chmod 777 filename`
- B. `chown Joe filename`
- C. `chmod g+w filename`
- D. `chgrp IT filename`

Answer : C

Question 266 (Single Topic)



Which of the following is used for fail over, providing access to all the services currently in use by an organization without having to physically move any servers or employees?

- A. The cloud
- B. A cold site
- C. A warm site
- D. An emergency operations center

Answer : A

Question 267 (Single Topic)



Which of the following BEST measures how much downtime an organization can tolerate during an unplanned outage?

- A. SLA
- B. BIA
- C. RTO
- D. MTTR

Answer : C

Question 268 (Single Topic)



The management team at a healthcare organization is concerned about being able to access the daily vital records if there is an IT disaster that causes both servers and the network to be offline. Which of the following backup types can the organization use to mitigate this risk?

- A. Tape
- B. Cloud
- C. Disk
- D. Print

Answer : A

Question 269 (Single Topic)



A server administrator notices the `/var/log/audit/audit.log` file on a Linux server is rotating too frequently. The administrator would like to decrease the number of times the log rotates without losing any of the information in the logs. Which of the following should the administrator configure?

- A. Increase the `audit.log` file size in the appropriate configuration file.
- B. Decrease the duration of the log rotate cycle for the `audit.log` file.
- C. Remove the log rotate directive from the `audit.log` file configuration.
- D. Move the `audit.log` files to a remote syslog server.

Answer : A

Question 270 (Single Topic)



Which of the following backup types copies changed data from a server and then combines the backups on the backup target?

- A. Differential
- B. Incremental
- C. Synthetic full
- D. Snapshot

Answer : A

Question 271 (Single Topic)



A server administrator is taking advantage of all the available bandwidth of the four NICs on the server. Which of the following NIC-teaming technologies should the server administrator utilize?

- A. Fail over
- B. Fault tolerance
- C. Load balancing
- D. Link aggregation

Answer : D

Question 272 (Single Topic)



A technician is working on a Linux server and is trying to access another server over the network. The technician gets server not found messages when trying to execute `ping servername` but no error messages when using `ping servername.domain.com`. Which of the following should the technician do to resolve the error?

- A. Configure the domain search variable.
- B. Change the permissions on `resolv.conf`.
- C. Configure the DNS address.
- D. Modify `nsswitch.conf`.

Answer : A

Question 273 (Single Topic)



Which of the following licensing models is MOST appropriate for a data center that has a variable daily equipment count?

- A. Per site
- B. Per server
- C. Per user
- D. Per core

Answer : D

Question 274 (Single Topic)



While running a local network security scan, an administrator discovers communication between clients and one of the web servers is happening in cleartext. Company policy requires all communication to be encrypted. Which of the following ports should be closed to stop the cleartext communication?

- A. 21
- B. 22
- C. 443
- D. 3389

Answer : A

Question 275 (Single Topic)



An application server's power cord was accidentally unplugged. After plugging the cord back in, the server administrator notices some transactions were not written to the disk array.

Which of the following is the MOST likely cause of this issue?

- A. Backplane failure
- B. CMOS failure
- C. Misconfigured RAID
- D. Cache battery failure

Answer : D

Question 276 (Single Topic)



A server in a remote data center is no longer responsive. Which of the following is the BEST solution to investigate this failure?

- A. Remote desktop
- B. Access via a crash cart
- C. Out-of-band management
- D. A Secure Shell connection

Answer : C

Question 277 (Single Topic)



A systems administrator is attempting to install a package on a server. After downloading the package from the internet and trying to launch it, the installation is blocked by the antivirus on the server. Which of the following must be completed before launching the installation package again?

- A. Creating an exclusion to the antivirus for the application
- B. Disabling real-time scanning by the antivirus
- C. Validating the checksum for the downloaded installation package
- D. Checking for corruption of the downloaded installation package

Answer : A

Question 278 (Single Topic)



An administrator needs to increase the size of an existing RAID 6 array that is running out of available space. Which of the following is the BEST way the administrator can perform this task?

- A. Replace all the array drives at once and then expand the array.
- B. Expand the array by changing the RAID level to 6.
- C. Expand the array by changing the RAID level to 10.
- D. Replace the array drives one at a time and then expand the array.

Answer : D

Question 279 (Single Topic)



A systems administrator recently upgraded the memory in a server, and now the server does not turn on, and nothing is displayed on the screen. Which of the following is the NEXT step the administrator should take to diagnose the error without opening the machine?

- A. Perform a cold reboot.
- B. Listen for POST code beeps.
- C. Call technical support.
- D. Check the monitor connection.

Answer : B

Question 280 (Single Topic)



A data center technician is assigned the daily task of walking through the data center to perform a health check on all the systems. Which of the following issues can the technician detect without logging on to any of the systems? (Choose two.)

- A. VLAN mismatch
- B. UPS battery fault
- C. Overheating
- D. Memory exhaustion
- E. IP conflict
- F. OS failure

Answer : BC

Question 281 (Single Topic)



An administrator has been asked to deploy a database server that provides the highest performance with fault tolerance. Which of the following RAID levels will fulfill this request?

- A. RAID 0
- B. RAID 1
- C. RAID 5
- D. RAID 6
- E. RAID 10

Answer : E

Question 282 (Single Topic)



A data center has 4U rack servers that need to be replaced using VMs but without losing any data. Which of the following methods will MOST likely be used to replace these servers?

- A. VMFS
- B. Unattended scripted OS installation
- C. P2V
- D. VM cloning

Answer : C

Question 283 (Single Topic)



An administrator is troubleshooting an application performance issue on a virtual server with two vCPUs. The application performance logs indicate CPU contention. The administrator adds more vCPU cores to the VM, yet the issue persists. Which of the following is the MOST likely reason for this issue?

- A. The server has high page utilization.
- B. The server has high disk latency.
- C. The application is single-threaded.
- D. The application cannot be virtualized.

Answer : C

Question 284 (Single Topic)



An administrator is alerted to an issue with server hardware deployed as a virtualization host. The alert indicates a predictive failure in a DIMM module. Which of the following is the BEST action for the administrator to take?

- A. Replace the failed module during the next scheduled downtime.
- B. Hot swap the failed module immediately.
- C. Schedule an outage to replace the failed module immediately.
- D. Hot swap the failed module during the next scheduled downtime.

Answer : A

Question 285 (Single Topic)



A technician is troubleshooting a server issue. The technician has determined several possible causes of the issue and has identified various solutions. Which of the following should the technician do NEXT?

- A. Consult internet forums to determine which is the most common cause and deploy only that solution.
- B. Test each solution individually to determine the root cause, rolling back the changes in between each test.
- C. Implement the shortest solution first to identify the issue and minimize downtime.
- D. Test each solution in succession and restore the server from the latest snapshot.

Answer : B

Question 286 (Single Topic)



Following a recent power outage, a server in the data center has been constantly going offline and losing its configuration. Users have been experiencing access issues while using the application on the server. The server technician notices the date and time are incorrect when the server is online. All other servers are working. Which of the following would MOST likely cause this issue? (Choose two.)

- A. The server has a faulty power supply.
- B. The server has a CMOS battery failure.
- C. The server requires OS updates.
- D. The server has a malfunctioning LED panel.
- E. The servers have NTP configured.
- F. CPU frequency scaling is set too high.

Answer : AB