

# EDUSUM

#1 Online Certification Guide

## Excel at SK0-005 Server Plus Exam: Proven Study Methods for Triumph

**CompTIA Server Plus  
CERTIFICATION QUESTIONS &  
ANSWERS**

**Get Instant Access to Vital Exam  
Acing Materials | Study Guide |  
Sample Questions | Practice  
Test**

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## Getting Ready for the SK0-005 Exam:

Use proven study tips and techniques to prepare for the SK0-005 exam confidently. Boost your readiness, improve your understanding regarding the Infrastructure, and increase your chances of success in the CompTIA CompTIA Server+ with our comprehensive guide. Start your journey towards exam excellence today.

## CompTIA Server+ Certification Details:

Exam Name	CompTIA Server+
Exam Code	SK0-005
Exam Price	\$369 (USD)
Duration	90 mins
Number of Questions	90
Passing Score	750 / 900
Books / Training	<a href="#">CertMaster Learn for Server+</a> <a href="#">Study Guides</a> <a href="#">Instructor-Led Training</a>
Schedule Exam	<a href="#">Pearson VUE</a>
Sample Questions	<a href="#">CompTIA Server+ Sample Questions</a>
Practice Exam	<a href="#">CompTIA SK0-005 Certification Practice Exam</a>

## Explore SK0-005 Syllabus:

Topic	Details
<b>Server Hardware Installation and Management - 18%</b>	
Given a scenario, install physical hardware.	<ul style="list-style-type: none"><li>- Racking<ul style="list-style-type: none"><li>1. Enclosure sizes</li><li>2. Unit sizes<ul style="list-style-type: none"><li>- 1U, 2U, 3U, etc.</li></ul></li><li>3. Rack layout<ul style="list-style-type: none"><li>- Cooling management</li><li>- Safety<ul style="list-style-type: none"><li>1. Proper lifting techniques</li><li>2. Rack balancing</li><li>3. Floor load limitations</li></ul></li><li>- Power distribution unit (PDU)</li><li>- Keyboard-video-mouse (KVM) placement</li><li>- Rail kits</li></ul></li></ul></li></ul>

Topic	Details
	<ul style="list-style-type: none"><li>- Power cabling<ol style="list-style-type: none"><li>1. Redundant power<ul style="list-style-type: none"><li>- Uninterruptible power supply (UPS)</li><li>- Separate circuits</li><li>- Separate providers</li></ul></li><li>2. Power connector types</li><li>3. Cable management</li></ol></li><li>- Network cabling<ol style="list-style-type: none"><li>1. Redundant networking</li><li>2. Twisted pair</li><li>3. Fiber<ul style="list-style-type: none"><li>- SC</li><li>- LC</li><li>- Single mode</li><li>- Multimode</li></ul></li><li>4. Gigabit</li><li>5. 10 GigE</li><li>6. Small form factor pluggable (SFP)</li><li>7. SFP+</li><li>8. Quad small form factor pluggable (QSFP)</li><li>9. Cable management</li></ol></li><li>- Server chassis types<ol style="list-style-type: none"><li>1. Tower</li><li>2. Rack mount</li><li>3. Blade enclosure</li></ol></li><li>- Server components<ol style="list-style-type: none"><li>1. Hardware compatibility list (HCL)</li><li>2. Central processing unit (CPU)</li><li>3. Graphics processing unit (GPU)</li><li>4. Memory</li><li>5. Bus types</li><li>6. Interface types</li><li>7. Expansion cards</li></ol></li></ul>
Given a scenario, deploy and manage storage.	<ul style="list-style-type: none"><li>- RAID levels and types</li></ul>

Topic	Details
	<ol style="list-style-type: none"><li>0</li><li>1</li><li>5</li><li>6</li><li>10</li><li>Just a bunch of disks (JBOD)</li><li>Hardware vs. software</li></ol> <ul style="list-style-type: none"><li>- Capacity planning</li><li>- Hard drive media types<ol style="list-style-type: none"><li>Solid state drive (SSD)<ul style="list-style-type: none"><li>- Wear factors<ol style="list-style-type: none"><li>Read intensive</li><li>Write intensive</li></ol></li></ul></li><li>Hard disk drive (HDD)<ul style="list-style-type: none"><li>- Rotations per minute (RPM)<ol style="list-style-type: none"><li>15,000</li><li>10,000</li><li>7,200</li></ol></li></ul></li><li>Hybrid</li></ol></li><li>- Interface types<ol style="list-style-type: none"><li>Serial attached SCSI (SAS)</li><li>Serial ATA (SATA)</li><li>Peripheral component interconnect (PCI)</li><li>External serial advanced technology attachment (eSATA)</li><li>Universal serial bus (USB)</li><li>Secure digital (SD)</li></ol></li><li>- Shared storage<ol style="list-style-type: none"><li>Network attached storage (NAS)<ul style="list-style-type: none"><li>- Network file system (NFS)</li><li>- Common Internet file system (CIFS)</li></ul></li><li>Storage area network (SAN)<ul style="list-style-type: none"><li>- Internet small computer systems interface (iSCSI)</li><li>- Fibre Channel</li><li>- Fibre Channel over Ethernet (FCoE)</li></ul></li></ol></li></ul>

Topic	Details
Given a scenario, perform server hardware maintenance.	<ul style="list-style-type: none"> <li>- Out-of-band management               <ol style="list-style-type: none"> <li>1. Remote drive access</li> <li>2. Remote console access</li> <li>3. Remote power on/off</li> <li>4. Internet protocol keyboard-video-mouse (IP KVM)</li> </ol> </li> <li>- Local hardware administration               <ol style="list-style-type: none"> <li>1. Keyboard-video-mouse (KVM)</li> <li>2. Crash cart</li> <li>3. Virtual administration console</li> <li>4. Serial connectivity</li> <li>5. Console connections</li> </ol> </li> <li>- Components               <ol style="list-style-type: none"> <li>1. Firmware upgrades</li> </ol> </li> <li>- Drives</li> <li>- Hot-swappable hardware               <ol style="list-style-type: none"> <li>1. Drives</li> <li>2. Cages</li> <li>3. Cards</li> <li>4. Power supplies</li> <li>5. Fans</li> </ol> </li> <li>- Basic input/output system (BIOS)/Unified Extensible Firmware Interface (UEFI)</li> </ul>
<b>Server Administration - 30%</b>	
Given a scenario, install server operating systems.	<ul style="list-style-type: none"> <li>- Minimum operating system (OS) requirements</li> <li>- Hardware compatibility list (HCL)</li> <li>- Installations               <ol style="list-style-type: none"> <li>1. Graphical user interface (GUI)</li> <li>2. Core</li> <li>3. Bare metal</li> <li>4. Virtualized</li> <li>5. Remote</li> <li>6. Slip streamed/unattended                   <ul style="list-style-type: none"> <li>- Scripted installations</li> <li>- Additional drivers</li> </ul> </li> </ol> </li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>- Additional applications and utilities</li> <li>- Patches</li> <li>7. Media installation type               <ul style="list-style-type: none"> <li>- Network</li> <li>- Optical</li> <li>- Universal serial bus (USB)</li> <li>- Embedded</li> </ul> </li> <li>8. Imaging               <ul style="list-style-type: none"> <li>- Cloning                   <ol style="list-style-type: none"> <li>1. Virtual machine (VM) cloning</li> <li>2. Physical clones</li> <li>3. Template deployment</li> <li>4. Physical to virtual (P2V)</li> </ol> </li> </ul> </li> <li>- Partition and volume types               <ol style="list-style-type: none"> <li>1. Global partition table (GPT) vs. master boot record (MBR)</li> <li>2. Dynamic disk</li> <li>3. Logical volume management (LVM)</li> </ol> </li> <li>- File system types               <ol style="list-style-type: none"> <li>1. ext4</li> <li>2. New technology file system (NTFS)</li> <li>3. VMware file system (VMFS)</li> <li>4. Resilient file system (ReFS)</li> <li>5. Z file system (ZFS)</li> </ol> </li> </ul>
<p>Given a scenario, configure servers to use network infrastructure services.</p>	<ul style="list-style-type: none"> <li>- IP configuration</li> <li>- Virtual local area network (VLAN)</li> <li>- Default gateways</li> <li>- Name resolution               <ol style="list-style-type: none"> <li>1. Domain name service (DNS)</li> <li>2. Fully qualified domain name (FQDN)</li> <li>3. Hosts file</li> </ol> </li> <li>- Addressing protocols               <ol style="list-style-type: none"> <li>1. IPv4                   <ul style="list-style-type: none"> <li>- Request for comments (RFC) 1918 address spaces</li> </ul> </li> </ol> </li> </ul>

Topic	Details
	<ul style="list-style-type: none"><li>2. IPv6</li><li>- Firewall<ul style="list-style-type: none"><li>1. Ports</li></ul></li><li>- Static vs. dynamic<ul style="list-style-type: none"><li>1. Dynamic host configuration protocol (DHCP)</li><li>2. Automatic private IP address (APIPA)</li></ul></li><li>- MAC addresses</li></ul>
Given a scenario, configure and maintain server functions and features.	<ul style="list-style-type: none"><li>- Server roles requirements<ul style="list-style-type: none"><li>1. Print</li><li>2. Database</li><li>3. File</li><li>4. Web</li><li>5. Application</li><li>6. Messaging</li><li>7. Baselining<ul style="list-style-type: none"><li>- Documentation</li><li>- Performance metrics</li></ul></li></ul></li><li>- Directory connectivity</li><li>- Storage management<ul style="list-style-type: none"><li>1. Formatting</li><li>2. Connectivity</li><li>3. Provisioning</li><li>4. Partitioning</li><li>5. Page/swap/scratch location and size</li><li>6. Disk quotas</li><li>7. Compression</li><li>8. Deduplication</li></ul></li><li>- Monitoring<ul style="list-style-type: none"><li>1. Uptime</li><li>2. Thresholds</li><li>3. Performance<ul style="list-style-type: none"><li>- Memory</li><li>- Disk</li></ul></li></ul></li></ul>



Topic	Details
	<ul style="list-style-type: none"><li>1. Input output operations per second (IOPS)</li><li>2. Capacity vs. utilization<ul style="list-style-type: none"><li>- Network</li><li>- Central processing unit (CPU)</li></ul></li><li>4. Event logs<ul style="list-style-type: none"><li>- Configuration</li><li>- Shipping</li><li>- Alerting</li><li>- Reporting</li><li>- Retention</li><li>- Rotation</li></ul></li><li>- Data migration and transfer<ul style="list-style-type: none"><li>1. Infiltration</li><li>2. Exfiltration</li><li>3. Disparate OS data transfer<ul style="list-style-type: none"><li>- Robocopy</li><li>- File transfer</li><li>- Fast copy</li><li>- Secure copy protocol (SCP)</li></ul></li></ul></li><li>- Administrative interfaces<ul style="list-style-type: none"><li>1. Console</li><li>2. Remote desktop</li><li>3. Secure shell (SSH)</li><li>4. Web interface</li></ul></li></ul>
Explain the key concepts of high availability for servers.	<ul style="list-style-type: none"><li>- Clustering<ul style="list-style-type: none"><li>1. Active-active</li><li>2. Active-passive</li><li>3. Failover</li><li>4. Failback</li><li>5. Proper patching procedures</li><li>6. Heartbeat</li></ul></li><li>- Fault tolerance<ul style="list-style-type: none"><li>1. Server-level redundancy vs. component redundancy</li></ul></li></ul>

Topic	Details
	<ul style="list-style-type: none"><li>- Redundant server network infrastructure<ol style="list-style-type: none"><li>1. Load balancing<ul style="list-style-type: none"><li>- Software vs. hardware</li><li>- Round robin</li><li>- Most recently used (MRU)</li></ul></li><li>2. Network interface card (NIC) teaming and redundancy<ul style="list-style-type: none"><li>- Failover</li><li>- Link aggregation</li></ul></li></ol></li></ul>
Summarize the purpose and operation of virtualization.	<ul style="list-style-type: none"><li>- Host vs. guest</li><li>- Virtual networking<ol style="list-style-type: none"><li>1. Direct access (bridged)</li><li>2. Network address translation (NAT)</li><li>3. vNICs</li><li>4. Virtual switches</li></ol></li><li>- Resource allocation and provisioning<ol style="list-style-type: none"><li>1. CPU</li><li>2. Memory</li><li>3. Disk</li><li>4. NIC</li><li>5. Overprovisioning</li><li>6. Scalability</li></ol></li><li>- Management interfaces for virtual machines</li><li>- Cloud models<ol style="list-style-type: none"><li>1. Public</li><li>2. Private</li><li>3. Hybrid</li></ol></li></ul>
Summarize scripting basics for server administration.	<ul style="list-style-type: none"><li>- Script types<ol style="list-style-type: none"><li>1. Bash</li><li>2. Batch</li><li>3. PowerShell</li><li>4. Virtual basic script (VBS)</li></ol></li><li>- Environment variables</li><li>- Comment syntax</li></ul>

Topic	Details
	<ul style="list-style-type: none"><li>- Basic script constructs<ol style="list-style-type: none"><li>1. Loops</li><li>2. Variables</li><li>3. Conditionals</li><li>4. Comparators</li></ol></li><li>- Basic data types<ol style="list-style-type: none"><li>1. Integers</li><li>2. Strings</li><li>3. Arrays</li></ol></li><li>- Common server administration scripting tasks<ol style="list-style-type: none"><li>1. Startup</li><li>2. Shut down</li><li>3. Service</li><li>4. Login</li><li>5. Account creation</li><li>6. Bootstrap</li></ol></li></ul>
Explain the importance of asset management and documentation.	<ul style="list-style-type: none"><li>- Asset management<ol style="list-style-type: none"><li>1. Labeling</li><li>2. Warranty</li><li>3. Leased vs. owned devices</li><li>4. Life-cycle management<ul style="list-style-type: none"><li>- Procurement</li><li>- Usage</li><li>- End of life</li><li>- Disposal/recycling</li></ul></li><li>5. Inventory<ul style="list-style-type: none"><li>- Make</li><li>- Model</li><li>- Serial number</li><li>- Asset tag</li></ul></li></ol></li><li>- Documentation management<ol style="list-style-type: none"><li>1. Updates</li><li>2. Service manuals</li><li>3. Architecture diagrams</li></ol></li></ul>

Topic	Details
	<ol style="list-style-type: none"> <li>4. Infrastructure diagrams</li> <li>5. Workflow diagrams</li> <li>6. Recovery processes</li> <li>7. Baselines</li> <li>8. Change management</li> <li>9. Server configurations</li> <li>10. Company policies and procedures               <ul style="list-style-type: none"> <li>- Business impact analysis (BIA)</li> <li>- Mean time between failure (MTBF)</li> <li>- Mean time to recover (MTTR)</li> <li>- Recovery point objective (RPO)</li> <li>- Recovery time objective (RTO)</li> <li>- Service level agreement (SLA)</li> <li>- Uptime requirements</li> </ul> </li> </ol> <ul style="list-style-type: none"> <li>- Document availability</li> <li>- Secure storage of sensitive documentation</li> </ul>
Explain licensing concepts.	<ul style="list-style-type: none"> <li>- Models               <ol style="list-style-type: none"> <li>1. Per-instance</li> <li>2. Per-concurrent user</li> <li>3. Per-server</li> <li>4. Per-socket</li> <li>5. Per-core</li> <li>6. Site-based</li> <li>7. Physical vs. virtual</li> <li>8. Node-locked</li> <li>9. Signatures</li> </ol> </li> <li>- Open source</li> <li>- Subscription</li> <li>- License vs. maintenance and support</li> <li>- Volume licensing</li> <li>- License count validation               <ol style="list-style-type: none"> <li>1. True up</li> </ol> </li> <li>- Version compatibility               <ol style="list-style-type: none"> <li>1. Backward compatible</li> <li>2. Forward compatible</li> </ol> </li> </ul>

Topic	Details
<b>Security and Disaster Recovery - 24%</b>	
Summarize data security concepts.	<ul style="list-style-type: none"> <li>- Encryption paradigms               <ol style="list-style-type: none"> <li>1. Data at rest</li> <li>2. Data in transit</li> </ol> </li> <li>- Retention policies</li> <li>- Data storage               <ol style="list-style-type: none"> <li>1. Physical location storage</li> <li>2. Off-site vs. on-site</li> </ol> </li> <li>- UEFI/BIOS passwords</li> <li>- Bootloader passwords</li> <li>- Business impact               <ol style="list-style-type: none"> <li>1. Data value prioritization</li> <li>2. Life-cycle management</li> <li>3. Cost of security vs. risk and/or replacement</li> </ol> </li> </ul>
Summarize physical security concepts.	<ul style="list-style-type: none"> <li>- Physical access controls               <ol style="list-style-type: none"> <li>1. Bollards</li> <li>2. Architectural reinforcements                   <ul style="list-style-type: none"> <li>- Signal blocking</li> <li>- Reflective glass</li> <li>- Datacenter camouflage</li> </ul> </li> <li>3. Fencing</li> <li>4. Security guards</li> <li>5. Security cameras</li> <li>6. Locks                   <ul style="list-style-type: none"> <li>- Biometric</li> <li>- Radio frequency identification (RFID)</li> <li>- Card readers</li> <li>- Mantraps</li> <li>- Safes</li> </ul> </li> </ol> </li> <li>- Environmental controls               <ol style="list-style-type: none"> <li>1. Fire suppression</li> <li>2. Heating, ventilation, and cooling (HVAC)</li> <li>3. Sensors</li> </ol> </li> </ul>

Topic	Details
Explain important concepts pertaining to identity and access management for server administration.	<ul style="list-style-type: none"><li>- User accounts</li><li>- User groups</li><li>- Password policies<ol style="list-style-type: none"><li>1. Length</li><li>2. Lockout</li><li>3. Enforcement</li></ol></li><li>- Permissions and access controls<ol style="list-style-type: none"><li>1. Role-based</li><li>2. Rule-based</li><li>3. Scope based</li><li>4. Segregation of duties</li><li>5. Delegation</li></ol></li><li>- Auditing<ol style="list-style-type: none"><li>1. User activity</li><li>2. Logins</li><li>3. Group memberships</li><li>4. Deletions</li></ol></li><li>- Multifactor authentication (MFA)<ol style="list-style-type: none"><li>1. Something you know</li><li>2. Something you have</li><li>3. Something you are</li></ol></li><li>- Single sign-on (SSO)</li></ul>
Explain data security risks and mitigation strategies.	<ul style="list-style-type: none"><li>- Security risks<ol style="list-style-type: none"><li>1. Hardware failure</li><li>2. Malware</li><li>3. Data corruption</li><li>4. Insider threats</li><li>5. Theft<ul style="list-style-type: none"><li>- Data loss prevention (DLP)</li><li>- Unwanted duplication</li><li>- Unwanted publication</li></ul></li><li>6. Unwanted access methods<ul style="list-style-type: none"><li>- Backdoor</li></ul></li></ol></li></ul>

Topic	Details
	<ul style="list-style-type: none"> <li>- Social engineering</li> <li>7. Breaches               <ul style="list-style-type: none"> <li>- Identification</li> <li>- Disclosure</li> </ul> </li> <li>- Mitigation strategies               <ol style="list-style-type: none"> <li>1. Data monitoring</li> <li>2. Log analysis                   <ul style="list-style-type: none"> <li>- Security information and event management (SIEM)</li> </ul> </li> <li>3. Two-person integrity                   <ul style="list-style-type: none"> <li>- Split encryption keys tokens</li> <li>- Separation of roles</li> </ul> </li> <li>4. Regulatory constraints                   <ul style="list-style-type: none"> <li>- Governmental</li> <li>- Individually privileged information                       <ol style="list-style-type: none"> <li>1. Personally identifiable information (PII)</li> <li>2. Payment Card Industry DataSecurity Standard (PCI DSS)</li> </ol> </li> </ul> </li> <li>5. Legal considerations                   <ul style="list-style-type: none"> <li>- Data retention</li> <li>- Subpoenas</li> </ul> </li> </ol> </li> </ul>
<p>Given a scenario, apply server hardening methods.</p>	<ul style="list-style-type: none"> <li>- OS hardening               <ol style="list-style-type: none"> <li>1. Disable unused services</li> <li>2. Close unneeded ports</li> <li>3. Install only required software</li> <li>4. Apply driver updates</li> <li>5. Apply OS updates</li> <li>6. Firewall configuration</li> </ol> </li> <li>- Application hardening               <ol style="list-style-type: none"> <li>1. Install latest patches</li> <li>2. Disable unneeded services, roles, or features</li> </ol> </li> <li>- Host security               <ol style="list-style-type: none"> <li>1. Antivirus</li> <li>2. Anti-malware</li> <li>3. Host intrusion detection system (HIDS)/Host</li> </ol> </li> </ul>

Topic	Details
	<p>intrusion prevention system (HIPS)</p> <ul style="list-style-type: none"><li>- Hardware hardening<ol style="list-style-type: none"><li>1. Disable unneeded hardware</li><li>2. Disable unneeded physical ports, devices, or functions</li><li>3. Set BIOS password</li><li>4. Set boot order</li></ol></li><li>- Patching<ol style="list-style-type: none"><li>1. Testing</li><li>2. Deployment</li><li>3. Change management</li></ol></li></ul>
Summarize proper server decommissioning concepts.	<ul style="list-style-type: none"><li>- Proper removal procedures<ol style="list-style-type: none"><li>1. Company policies</li><li>2. Verify non-utilization</li><li>3. Documentation<ul style="list-style-type: none"><li>- Asset management</li><li>- Change management</li></ul></li></ol></li><li>- Media destruction<ol style="list-style-type: none"><li>1. Disk wiping</li><li>2. Physical<ul style="list-style-type: none"><li>- Degaussing</li><li>- Shredding</li><li>- Crushing</li><li>- Incineration</li></ul></li><li>3. Purposes for media destruction</li></ol></li><li>- Media retention requirements</li><li>- Cable remediation<ol style="list-style-type: none"><li>1. Power</li><li>2. Networking</li></ol></li><li>- Electronics recycling<ol style="list-style-type: none"><li>1. Internal vs. external</li></ol></li></ul>



Topic	Details
	2. Repurposing
Explain the importance of backups and restores.	<ul style="list-style-type: none"> <li>- Backup methods               <ol style="list-style-type: none"> <li>1. Full</li> <li>2. Synthetic full</li> <li>3. Incremental</li> <li>4. Differential</li> <li>5. Archive</li> <li>6. Open file</li> <li>7. Snapshot</li> </ol> </li> <li>- Backup frequency</li> <li>- Media rotation</li> <li>- Backup media types               <ol style="list-style-type: none"> <li>1. Tape</li> <li>2. Cloud</li> <li>3. Disk</li> <li>4. Print</li> </ol> </li> <li>- File-level vs. system-state backup</li> <li>- Restore methods               <ol style="list-style-type: none"> <li>1. Overwrite</li> <li>2. Side by side</li> <li>3. Alternate location path</li> </ol> </li> <li>- Backup validation               <ol style="list-style-type: none"> <li>1. Media integrity</li> <li>2. Equipment</li> <li>3. Regular testing intervals</li> </ol> </li> <li>- Media inventory before restoration</li> </ul>
Explain the importance of disaster recovery.	<ul style="list-style-type: none"> <li>- Site types               <ol style="list-style-type: none"> <li>1. Hot site</li> <li>2. Cold site</li> <li>3. Warm site</li> <li>4. Cloud</li> <li>5. Separate geographic locations</li> </ol> </li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>- Replication               <ol style="list-style-type: none"> <li>1. Constant</li> <li>2. Background</li> <li>3. Synchronous vs. asynchronous</li> <li>4. Application consistent</li> <li>5. File locking</li> <li>6. Mirroring</li> <li>7. Bidirectional</li> </ol> </li> <li>- Testing               <ol style="list-style-type: none"> <li>1. Tabletops</li> <li>2. Live failover</li> <li>3. Simulated failover</li> <li>4. Production vs. non-production</li> </ol> </li> </ul>
<b>Troubleshooting - 28%</b>	
Explain the troubleshooting theory and methodology.	<ul style="list-style-type: none"> <li>- Identify the problem and determine the scope.               <ol style="list-style-type: none"> <li>1. Question users/stakeholders and identify changes to the server/environment.</li> <li>2. Collect additional documentation/logs.</li> <li>3. If possible, replicate the problem as appropriate.</li> <li>4. If possible, perform backups before making changes.</li> <li>5. Escalate, if necessary.</li> </ol> </li> <li>- Establish a theory of probable cause (question the obvious).               <ol style="list-style-type: none"> <li>1. Determine whether there is a common element or symptom causing multiple problems.</li> </ol> </li> <li>- Test the theory to determine the cause.               <ol style="list-style-type: none"> <li>1. Once the theory is confirmed, determine the next steps to resolve the problem.</li> <li>2. If the theory is not confirmed, establish a new theory.</li> </ol> </li> <li>- Establish a plan of action to resolve the problem.</li> </ul>

Topic	Details
	<ol style="list-style-type: none"> <li>1. Notify impacted users.</li> </ol> <ul style="list-style-type: none"> <li>- Implement the solution or escalate.               <ol style="list-style-type: none"> <li>1. Make one change at a time and test/confirm the change has resolved the problem.</li> <li>2. If the problem is not resolved, reverse the change, if appropriate, and implement a new change.</li> </ol> </li> <li>- Verify full system functionality and, if applicable, implement preventive measures.</li> <li>- Perform a root cause analysis.</li> <li>- Document findings, actions, and outcomes throughout the process.</li> </ul>
<p>Given a scenario, troubleshoot common hardware failures.</p>	<ul style="list-style-type: none"> <li>- Common problems               <ol style="list-style-type: none"> <li>1. Predictive failures</li> <li>2. Memory errors and failures                   <ul style="list-style-type: none"> <li>- System crash                       <ol style="list-style-type: none"> <li>1. Blue screen</li> <li>2. Purple screen</li> <li>3. Memory dump</li> </ol> </li> <li>- Utilization</li> <li>- Power-on self-test (POST) errors</li> <li>- Random lockups</li> <li>- Kernel panic</li> </ul> </li> <li>3. Complementary metal-oxide-semiconductor (CMOS) battery failure</li> <li>4. System lockups</li> <li>5. Random crashes</li> <li>6. Fault and device indication                   <ul style="list-style-type: none"> <li>- Visual indicators</li> </ul> </li> <li>7. Light-emitting diode (LED)</li> <li>8. Liquid crystal display (LCD) panel readouts                   <ul style="list-style-type: none"> <li>- Auditory or olfactory cues</li> <li>- POST codes</li> </ul> </li> <li>9. Misallocated virtual resources</li> </ol> </li> <li>- Causes of common problems               <ol style="list-style-type: none"> <li>1. Technical                   <ul style="list-style-type: none"> <li>- Power supply fault</li> <li>- Malfunctioning fans</li> </ul> </li> </ol> </li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>- Improperly seated heat sink</li> <li>- Improperly seated cards</li> <li>- Incompatibility of components</li> <li>- Cooling failures</li> <li>- Backplane failure</li> <li>- Firmware incompatibility</li> <li>- CPU or GPU overheating</li> </ul> <p>2. Environmental</p> <ul style="list-style-type: none"> <li>- Dust</li> <li>- Humidity</li> <li>- Temperature</li> </ul> <p>- Tools and techniques</p> <ol style="list-style-type: none"> <li>1. Event logs</li> <li>2. Firmware upgrades or downgrades</li> <li>3. Hardware diagnostics</li> <li>4. Compressed air</li> <li>5. Electrostatic discharge (ESD) equipment</li> <li>6. Reseating or replacing components and/or cables</li> </ol>
<p>Given a scenario, troubleshoot storage problems.</p>	<p>- Common problems</p> <ol style="list-style-type: none"> <li>1. Boot errors</li> <li>2. Sector block errors</li> <li>3. Cache battery failure</li> <li>4. Read/write errors</li> <li>5. Failed drives</li> <li>6. Page/swap/scratch file or partition</li> <li>7. Partition errors</li> <li>8. Slow file access</li> <li>9. OS not found</li> <li>10. Unsuccessful backup</li> <li>11. Unable to mount the device</li> <li>12. Drive not available</li> <li>13. Cannot access logical drive</li> <li>14. Data corruption</li> <li>15. Slow I/O performance</li> <li>16. Restore failure</li> <li>17. Cache failure</li> <li>18. Multiple drive failure</li> </ol>

Topic	Details
	<ul style="list-style-type: none"><li>- Causes of common problems<ol style="list-style-type: none"><li>1. Disk space utilization<ul style="list-style-type: none"><li>- Insufficient disk space</li></ul></li><li>2. Misconfigured RAID</li><li>3. Media failure</li><li>4. Drive failure</li><li>5. Controller failure</li><li>6. Hot bus adapter (HBA) failure</li><li>7. Loose connectors</li><li>8. Cable problems</li><li>9. Misconfiguration</li><li>10. Corrupt boot sector</li><li>11. Corrupt filesystem table</li><li>12. Array rebuild</li><li>13. Improper disk partition</li><li>14. Bad sectors</li><li>15. Cache battery failure</li><li>16. Cache turned off</li><li>17. Insufficient space</li><li>18. Improper RAID configuration</li><li>19. Mismatched drives</li><li>20. Backplane failure</li></ol></li><li>- Tools and techniques<ol style="list-style-type: none"><li>1. Partitioning tools</li><li>2. Disk management</li><li>3. RAID and array management</li><li>4. System logs</li><li>5. Disk mounting commands<ul style="list-style-type: none"><li>- net use</li><li>- mount</li></ul></li><li>6. Monitoring tools</li><li>7. Visual inspections</li><li>8. Auditory inspections</li></ol></li></ul>
Given a scenario, troubleshoot common OS and software problems.	<ul style="list-style-type: none"><li>- Common problems<ol style="list-style-type: none"><li>1. Unable to log on</li><li>2. Unable to access resources</li><li>3. Unable to access files</li></ol></li></ul>

Topic	Details
	<ul style="list-style-type: none"> <li>4. System file corruption</li> <li>5. End of life/end of support</li> <li>6. Slow performance</li> <li>7. Cannot write to system logs</li> <li>8. Service failures</li> <li>9. System or application hanging</li> <li>10. Freezing</li> <li>11. Patch update failure</li> </ul> <p>- Causes of common problems</p> <ul style="list-style-type: none"> <li>1. Incompatible drivers/modules</li> <li>2. Improperly applied patches</li> <li>3. Unstable drivers or software</li> <li>4. Server not joined to domain</li> <li>5. Clock skew</li> <li>6. Memory leaks</li> <li>7. Buffer overrun</li> <li>8. Incompatibility               <ul style="list-style-type: none"> <li>- Insecure dependencies</li> <li>- Version management</li> <li>- Architecture</li> </ul> </li> <li>9. Update failures</li> <li>10. Missing updates</li> <li>11. Missing dependencies</li> <li>12. Downstream failures due to updates</li> <li>13. Inappropriate application-level permissions</li> <li>14. Improper CPU affinity and priority</li> </ul> <p>- OS and software tools and techniques</p> <ul style="list-style-type: none"> <li>1. Patching               <ul style="list-style-type: none"> <li>- Upgrades</li> <li>- Downgrades</li> </ul> </li> <li>2. Package management</li> <li>3. Recovery               <ul style="list-style-type: none"> <li>- Boot options                   <ul style="list-style-type: none"> <li>1. Safe mode</li> <li>2. Single user mode</li> </ul> </li> <li>- Reload OS</li> <li>- Snapshots</li> </ul> </li> <li>4. Proper privilege escalations               <ul style="list-style-type: none"> <li>- runas/Run As</li> </ul> </li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>- sudo</li> <li>- su</li> <li>5. Scheduled reboots</li> <li>6. Software firewalls               <ul style="list-style-type: none"> <li>- Adding or removing ports</li> <li>- Zones</li> </ul> </li> <li>7. Clocks               <ul style="list-style-type: none"> <li>- Network time protocol (NTP)</li> <li>- System time</li> </ul> </li> <li>8. Services and processes               <ul style="list-style-type: none"> <li>- Starting</li> <li>- Stopping</li> <li>- Status identification</li> <li>- Dependencies</li> </ul> </li> <li>9. Configuration management               <ul style="list-style-type: none"> <li>- System center configuration manager (SCCM)</li> <li>- Puppet/Chef/Ansible</li> <li>- Group Policy Object (GPO)</li> </ul> </li> <li>10. Hardware compatibility list (HCL)</li> </ul>
<p>Given a scenario, troubleshoot network connectivity issues.</p>	<ul style="list-style-type: none"> <li>- Common problems               <ol style="list-style-type: none"> <li>1. Lack of Internet connectivity</li> <li>2. Resource unavailable</li> <li>3. Receiving incorrect DHCP information</li> <li>4. Non-functional or unreachable</li> <li>5. Destination host unreachable</li> <li>6. Unknown host</li> <li>7. Unable to reach remote subnets</li> <li>8. Failure of service provider</li> <li>9. Cannot reach server by hostname/fully qualified domain name (FQDN)</li> </ol> </li> <li>- Causes of common problems               <ol style="list-style-type: none"> <li>1. Improper IP configuration</li> <li>2. IPv4 vs. IPv6 misconfigurations</li> <li>3. Improper VLAN configuration</li> <li>4. Network port security</li> <li>5. Component failure</li> <li>6. Incorrect OS route tables</li> <li>7. Bad cables</li> <li>8. Firewall (misconfiguration, hardware failure,</li> </ol> </li> </ul>

Topic	Details
	<p>software failure)</p> <ol style="list-style-type: none"> <li>9. Misconfigured NIC</li> <li>10. DNS and/or DHCP failure</li> <li>11. DHCP server misconfigured</li> <li>12. Misconfigured hosts file</li> </ol> <p>- Tools and techniques</p> <ol style="list-style-type: none"> <li>1. Check link lights</li> <li>2. Confirm power supply</li> <li>3. Verify cable integrity</li> <li>4. Check appropriate cable selection</li> <li>5. Commands               <ul style="list-style-type: none"> <li>- ipconfig</li> <li>- ip addr</li> <li>- ping</li> <li>- tracert</li> <li>- traceroute</li> <li>- nslookup</li> <li>- netstat</li> <li>- dig</li> <li>- telnet</li> <li>- nc</li> <li>- nbtstat</li> <li>- route</li> </ul> </li> </ol>
<p>Given a scenario, troubleshoot security problems.</p>	<p>- Common concerns</p> <ol style="list-style-type: none"> <li>1. File integrity</li> <li>2. Improper privilege escalation               <ul style="list-style-type: none"> <li>- Excessive access</li> </ul> </li> <li>3. Applications will not load</li> <li>4. Cannot access network fileshares</li> <li>5. Unable to open files</li> </ol> <p>- Causes of common problems</p> <ol style="list-style-type: none"> <li>1. Open ports</li> <li>2. Services               <ul style="list-style-type: none"> <li>- Active</li> <li>- Inactive</li> <li>- Orphan/zombie</li> </ul> </li> </ol>



Topic	Details
	<ul style="list-style-type: none"><li>3. Intrusion detection configurations</li><li>4. Anti-malware configurations</li><li>5. Improperly configured local/group policies</li></ul> <ul style="list-style-type: none"><li>- Improperly configured firewall rules<ul style="list-style-type: none"><li>1. Misconfigured permissions</li><li>2. Virus infection</li><li>3. Malware</li><li>4. Rogue processes/services</li><li>5. Data loss prevention (DLP)</li></ul></li></ul> <ul style="list-style-type: none"><li>- Security tools<ul style="list-style-type: none"><li>1. Port scanners</li><li>2. Sniffers</li><li>3. Telnet clients</li><li>4. Anti-malware</li><li>5. Antivirus</li><li>6. File integrity<ul style="list-style-type: none"><li>- Checksums</li><li>- Monitoring</li><li>- Detection</li><li>- Enforcement</li></ul></li><li>7. User access controls<ul style="list-style-type: none"><li>- SELinux</li><li>- User account control (UAC)</li></ul></li></ul></li></ul>

## Prepare with SK0-005 Sample Questions:

### Question: 1

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 UPS
- d) Connect the server to a redundant network

**Answer: c**

**Question: 2**

When grid power goes out, all servers in a rack lose power immediately. The server administrator confirms the servers have dual power supplies, which are connected to separate PDUs. Each of the PDUs is connected to a different UPS. Which of the following is the MOST likely cause of the problem?

- a) The server power supplies failed during the outage.
- b) Both of the UPS devices were set for the wrong voltage.
- c) The UPS batteries were discharged.
- d) The power circuit was tripped on both PDUs.

**Answer: d**

**Question: 3**

A server technician is installing a new server that has four network ports. Two of the network ports have been configured for the current IP addresses of the servers.

Which of the following should the technician perform to ensure security best practices?

- a) Connect the unused network ports to each other to create an unusable loop.
- b) Disable the unused network ports on the server side.
- c) Connect the unused network ports to the switch for future expansion.
- d) Insert loopback adapters into the unused network ports.

**Answer: b**

**Question: 4**

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: 5**

An administrator is unable to access a Linux host running virtual servers. Upon further investigation, the administrator views the console of the server and determines the server has crashed. Which of the following is the color of the screen?

- a) White
- b) Black
- c) Green
- d) Blue
- e) Purple

**Answer: e**

**Question: 6**

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: 7**

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: 8**

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

**Answer: b**

**Question: 9**

A technician is trying to reach marketing.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 default gateway
- c) The subnet mask
- d) The DNS

**Answer: d**

**Question: 10**

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

- a) Biometrics
- b) OTP
- c) RFID
- d) Security cameras

**Answer: a**

# Study Tips to Pass the CompTIA Server+ Exam:

## Understand the SK0-005 Exam Format:

Before diving into your study routine, it's essential to familiarize yourself with the SK0-005 exam format. Take the time to review the [exam syllabus](#), understand the test structure, and identify the key areas of focus. Prior knowledge of what to expect on exam day will help you tailor your study plan.

## Make A Study Schedule for the SK0-005 Exam:

To effectively prepare for the SK0-005 exam, make a study schedule that fits your lifestyle and learning style. Set specific time slots for studying each day and focus on the topics based on their importance and your proficiency level. Consistency is a must, so stick to your schedule and avoid procrastination.

## Study from Different Resources:

Make sure to expand beyond one source of study material. Utilize multiple resources such as textbooks, online courses, practice exams, and study guides to understand the SK0-005 exam topics comprehensively. Each resource offers unique insights and explanations that can enhance your learning experience.

## Practice Regularly for the SK0-005 Exam:

Practice makes you perfect for the SK0-005 exam preparation as well. Regular practice allows you to reinforce your knowledge of key concepts, enhance your problem-solving skills, and familiarize yourself with the exam format. Dedicate time to solving practice questions and [sample tests](#) to gauge your progress.

## Take Breaks and Rest:

While it's essential to study, taking breaks and allowing yourself to rest is equally important. Overloading your brain with information without adequate rest can lead to burnout and decreased productivity. Set short breaks during your study sessions to recharge and maintain focus.

## Stay Organized During the SK0-005 Exam Preparation:

Stay organized throughout your SK0-005 study journey by keeping track of your progress and materials. Maintain a tidy study space, use folders or digital

tools to organize your notes and resources, and create a checklist of topics to cover. An organized approach helps you stay on track and minimize stress.

### **Seek Clarification from Mentors:**

Feel free to seek clarification if you encounter any confusing or challenging concepts during your study sessions. Reach out to peers, instructors, or online forums for assistance. Clarifying doubts early on will prevent misunderstandings and ensure you have a solid grasp of the material.

### **Regular Revision Plays A vital Role for the SK0-005 Exam:**

Consistent revision is essential for the long-term retention of information. Review previously covered topics to reinforce your understanding and identify any areas requiring additional attention. Reviewing regularly will help solidify your knowledge and boost your confidence.

### **Practice Time Management for the SK0-005 Exam:**

Effective time management is crucial on exam day to ensure you complete all sections within the allocated time frame. During your practice sessions, simulate SK0-005 exam conditions and practice pacing yourself accordingly. Develop strategies for tackling each section efficiently to maximize your score.

### **Stay Positive and Confident:**

Lastly, always have a positive mindset and believe in your abilities. Stay confident in your preparation efforts and trust that you have adequately equipped yourself to tackle the SK0-005 exam. Visualize success, stay focused, and approach the exam calmly and confidently.

### **Benefits of Earning the SK0-005 Exam:**

- Achieving the SK0-005 certification opens doors to new career opportunities and advancement within your field.
- The rigorous preparation required for the SK0-005 exam equips you with in-depth knowledge and practical skills relevant to your profession.
- Holding the SK0-005 certification demonstrates your expertise and commitment to excellence, earning recognition from peers and employers.
- Certified professionals often grab higher salaries and enjoy greater earning potential than their non-certified counterparts.
- Obtaining the SK0-005 certification validates your proficiency and credibility, instilling confidence in clients, employers, and colleagues.

## Discover the Reliable Practice Test for the SK0-005 Certification:

EduSum.com brings you comprehensive information about the SK0-005 exam. We offer genuine practice tests tailored for the SK0-005 certification. What benefits do these practice tests offer? You'll encounter authentic exam-like questions crafted by industry experts, providing an opportunity to enhance your performance in the actual exam. Count on EduSum.com for rigorous, unlimited access to SK0-005 practice tests over two months, enabling you to bolster your confidence steadily. Through dedicated practice, many candidates have succeeded in streamlining their journey towards obtaining the CompTIA Server+.

## Concluding Thoughts:

Preparing for the SK0-005 exam requires dedication, strategy, and effective study techniques. These study tips can enhance your preparation, boost your confidence, and improve your chances of passing the exam with flying colors. Remember to stay focused, stay organized, and believe in yourself. Good luck!

### Here is the Trusted Practice Test for the SK0-005 Certification

EduSum.com offers comprehensive details about the SK0-005 exam. Our platform provides authentic practice tests designed for the SK0-005 exam. What benefits do these practice tests offer? By accessing our practice tests, you will encounter questions closely resembling those crafted by industry experts in the exam. This allows you to enhance your performance and readiness for the real exam. Count on EduSum.com to provide rigorous practice opportunities, offering unlimited attempts over two months for the SK0-005 practice tests. Through consistent practice, many candidates have found success and simplified their journey towards attaining the CompTIA Server+.

**Start Online Practice of SK0-005 Exam by Visiting URL**

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