

CompTIA Server+ Certification Exam Objectives

EXAM NUMBER: SKO-005





About the Exam

Candidates are encouraged to use this document to help prepare for the CompTIA Server+ (SK0-005) certification exam. With the end goal of proactively defending and continuously improving the security of an organization, Server+ will verify the successful candidate has the knowledge and skills required to:

- Install, configure, and manage server hardware and server operating systems
- Implement proper server hardening and security controls
- Successfully troubleshoot common server problems
- Demonstrate an understanding of key disaster recovery, high-availability, and backup concepts

This is equivalent to two years of hands-on experience working in a server environment.

These content examples are meant to clarify the test objectives and should not be construed as a comprehensive listing of all the content of this examination.

EXAM DEVELOPMENT

CompTIA exams result from subject matter expert workshops and industry-wide survey results regarding the skills and knowledge required of an IT professional.

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PLEASE NOTE

The lists of examples provided in bulleted format are not exhaustive lists. Other examples of technologies, processes, or tasks pertaining to each objective may also be included on the exam although not listed or covered in this objectives document. CompTIA is constantly reviewing the content of our exams and updating test questions to be sure our exams are current and the security of the questions is protected. When necessary, we will publish updated exams based on testing exam objectives. Please know that all related exam preparation materials will still be valid.



TEST DETAILS

Required exam	SK0-005
Number of questions	90
Types of questions	Multiple choice and performance-based
Length of test	90 minutes
Recommended experience	\cdot Two years of hands-on experience working in a server environment
	CompTIA A+ certified or equivalent knowledge
Passing score	750

EXAM OBJECTIVES (DOMAINS)

The table below lists the domains measured by this examination and the extent to which they are represented.

DOMAIN	PERCENTAGE OF EXAMINATION
1.0 Server Hardware Installation and Man	agement 18%
2.0 Server Administration	30%
3.0 Security and Disaster Recovery	24%
4.0 Troubleshooting	28%
Total	100%



1.0 Server Hardware Installation and Management

Given a scenario, install physical hardware.

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Racking

- Enclosure sizes
- Unit sizes
- 1U, 2U, 3U, etc.
- Rack layout
 - Cooling management
 - Safety
 - Proper lifting techniques

- Rack balancing
- Floor load limitations
- Power distribution unit (PDU)
- Keyboard-video-
- mouse (KVM) placement
- Rail kits
- Power cabling
 - Redundant power
 - Uninterruptible power supply (UPS)
 - Separate circuits

- Separate providers
- Power connector types
- Cable management

Network cabling

- Redundant networking
- Twisted pair
- Fiber
 - SC
 - I C

 - Single mode - Multimode
- Gigabit
- 10 GigE
- Small form factor pluggable (SFP)
- SFP+
- Quad small form factor pluggable (QSFP)
- Cable management

Server chassis types

- Tower
- Rack mount
- Blade enclosure

Server components

- Hardware compatibility list (HCL)
- Central processing unit (CPU)
- Graphics processing unit (GPU)
- Memory
- Bus types
- Interface types
- Expansion cards

Given a scenario, deploy and manage storage.

• RAID levels and types

- 0
- 1
- 5
- 6
- 10
- Just a bunch of disks (JBOD)
- Hardware vs. software
- Capacity planning

Hard drive media types

- Solid state drive (SSD)
 - Wear factors
 - Read intensive

- Write intensive
- Hard disk drive (HDD)
 - Rotations per minute (RPM)
 - 15,000

 - 7,200
- Hybrid

Interface types

- Serial attached SCSI (SAS)
- Serial ATA (SATA)
- Peripheral component
- interconnect (PCI)

- External serial advanced
- technology attachment (eSATA)
- Universal serial bus (USB)
- Secure digital (SD)

Shared storage

- Network attached storage (NAS)
 - Network file system (NFS)
 - Common Internet file system (CIFS)
- Storage area network (SAN)
 - Internet small
 - computer systems interface (iSCSI)
 - Fibre Channel
 - Fibre Channel over Ethernet (FCoE)



- - - 10,000

13 Given a scenario, perform server hardware maintenance.

Out-of-band management

- Remote drive access
- Remote console access
- Remote power on/off
- Internet protocol keyboardvideo-mouse (IP KVM)
- Local hardware administration
 - Keyboard-video-mouse (KVM)
 - Crash cart
 - Virtual administration console
 - Serial connectivity
 - Console connections

Components

- Firmware upgrades
- Drives
- Hot-swappable hardware
 - Drives
 - Cages
 - Cards
 - Power supplies
 - Fans
- Basic input/output system (BIOS)/Unified Extensible Firmware Interface (UEFI)



CompTIA Server+ Certification Exam Objectives 1.0 (Exam Number: SK0-005)



•2.0 Server Administration

Given a scenario, install server operating systems.

- Minimum operating system (OS) requirements
- Hardware compatibility list (HCL)
- Installations
 - Graphical user interface (GUI) - Core
 - Bare metal
 - Virtualized
 - Remote
 - Slip streamed/unattended - Scripted installations - Additional drivers

- Additional applications
- and utilities
- Patches
- Media installation type
 - Network
 - Optical
 - Universal serial bus (USB)
 - Embedded
- Imaging
 - Cloning
 - Virtual machine (VM) cloning
 - Physical clones

- Template deployment
- Physical to virtual (P2V)
- Partition and volume types
 - Global partition table (GPT) vs. master boot record (MBR)
 - Dynamic disk
 - Logical volume management (LVM)
- File system types
 - ext4
 - New technology file system (NTFS)
 - VMware file system (VMFS)
 - Resilient file system (ReFS)
 - Z file system (ZFS)

2.2 Given a scenario, configure servers to use network infrastructure services.

- IP configuration
- Virtual local area network (VLAN)
- Default gateways
- Name resolution
 - Domain name service (DNS)
 - Fully qualified domain name (FQDN)
 - Hosts file

Addressing protocols

- IPv4
 - Request for comments
 - (RFC) 1918 address spaces
- IPv6
- Firewall
 - Ports

• Static vs. dynamic

- Dynamic host configuration
- protocol (DHCP)
- Automatic private IP address (APIPA)
- MAC addresses



^{2.3} Given a scenario, configure and maintain server functions and features.

- Server roles requirements
 - Print
 - Database
 - File
 - Web
 - Application
 - Messaging
 - Baselining
 - Documentation
 - Performance metrics
- Directory connectivity
- Storage management
 - Formatting
 - Connectivity
 - Provisioning
 - Partitioning
 - Page/swap/scratch location and size

- Disk quotas
- Compression
- Deduplication
- Monitoring
 - Uptime
 - Thresholds
 - Performance
 - Memory
 - Disk
 - Input output operations
 - per second (IOPS)
 - Capacity vs. utilization
 - Network
 - Central processing unit (CPU)
 - Event logs
 - Configuration
 - Shipping

- Alerting
- Reporting
- Retention
- Rotation
- Data migration and transfer
 - Infiltration
 - Exfiltration
 - Disparate OS data transfer
 - Robocopy
 - File transfer
 - Fast copy
 - Secure copy protocol (SCP)
- Administrative interfaces
 - Console
 - Remote desktop
 - Secure shell (SSH)
 - Web interface

Explain the key concepts of high availability for servers.

- Clustering
 - Active-active
 - Active-passive
 - Failover
 - Failback
 - Proper patching procedures
 - Heartbeat

Fault tolerance

- Server-level redundancy vs.

- component redundancy
- Redundant server network infrastructure
 - Load balancing
 - Software vs. hardware
 - Round robin

- Most recently used (MRU) - Network interface card (NIC) teaming and redundancy
 - Failover
 - Link aggregation

Summarize the purpose and operation of virtualization.

- Host vs. guest
- Virtual networking
 - Direct access (bridged)
 - Network address translation (NAT)
 - vNICs
 - Virtual switches

- Resource allocation and provisioning
 - CPU
 - Memory - Disk
 - NIC
 - Overprovisioning
 - Scalability

- Management interfaces
- for virtual machines
- Cloud models
 - Public
 - Private
 - Hybrid





⁶ Summarize scripting basics for server administration.

Script types

- Bash
- Batch
- PowerShell
- Virtual basic script (VBS)
- Environment variables
- Comment syntax

Basic script constructs

- Loops
- Variables
- Conditionals
- Comparators
- Basic data types
- Integers
 - Strings
 - Arrays

Common server administration

scripting tasks

- Startup
- Shut down
- Service
- Login
- Account creation
- Bootstrap

Z Explain the importance of asset management and documentation.

Asset management

- Labeling
- Warranty
- Leased vs. owned devices
- Life-cycle management
 - Procurement
 - Usage
 - End of life
 - Disposal/recycling
- Inventory
 - Make
 - Model

- Serial number - Asset tag
- Documentation management
 - Updates
 - Service manuals
 - Architecture diagrams
 - Infrastructure diagrams
 - Workflow diagrams
 - Recovery processes
 - Baselines
 - Change management
 - Server configurations

- Company policies and procedures
 - Business impact analysis (BIA)
 - Mean time between failure (MTBF)
 - Mean time to recover (MTTR)
 - Recovery point objective (RPO)
 - Recovery time objective (RTO)
 - Service level agreement (SLA)
 - Uptime requirements
- Document availability
- Secure storage of sensitive documentation

Explain licensing concepts.

Models

- Per-instance
- Per-concurrent user
- Per-server
- Per-socket
- Per-core
- Site-based

- Physical vs. virtual
- Node-locked
- Signatures
- Open source
- Subscription
- License vs. maintenance and support
- Volume licensing

- License count validation
 - True up
- Version compatibility
 - Backward compatible
 - Forward compatible



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-3.0 Security and Disaster Recovery

3.1 Summarize data security concepts.

- Encryption paradigms
 - Data at rest
 - Data in transit
- Retention policies
- Data storage
 - Physical location storage
 - Off-site vs. on-site

- UEFI/BIOS passwords
- Bootloader passwords
- Business impact
 - Data value prioritization
 - Life-cycle management
 - Cost of security vs. risk
 - and/or replacement

3-2 Summarize physical security concepts.

- Physical access controls
 - Bollards
 - Architectural reinforcements
 - Signal blocking
 - Reflective glass
 - Datacenter camouflage
 - Fencing

- Security guards
- Security cameras
- Locks
 - Biometric
 - Radio frequency identification (RFID)
 - Card readers

 Mantraps
Safes
Environmental controls
Fire suppression
Heating, ventilation, and cooling (HVAC)
Sensors

Explain important concepts pertaining to identity and access management for server administration.

- User accounts
- User groups
- Password policies
 - Length
 - Lockout
 - Enforcement
- Permissions and access controls
 - Role-based
 - Rule-based

- Scope based
- Segregation of duties
- Delegation
- Auditing
 - User activity
 - Logins
 - Group memberships
 - Deletions

- Multifactor authentication (MFA)
 - Something you know
 - Something you have
 - Something you are
- Single sign-on (SSO)

³⁴ Explain data security risks and mitigation strategies.

Security risks

- Hardware failure
- Malware
- Data corruption
- Insider threats
- Theft
 - Data loss prevention (DLP)
 - Unwanted duplication
 - Unwanted publication
- Unwanted access methods
 - Backdoor
 - Social engineering

- Breaches

- Identification - Disclosure

Mitigation strategies

- Data monitoring
- Log analysis
- - Security information and event management (SIEM)
- Two-person integrity
- - Split encryption keys tokens - Separation of roles
- Regulatory constraints - Governmental - Individually privileged information - Personally identifiable information (PII) - Payment Card Industry Data Security Standard (PCI DSS) - Legal considerations
 - Data retention
 - Subpoenas

Given a scenario, apply server hardening methods.

OS hardening

- Disable unused services
- Close unneeded ports
- Install only required software
- Apply driver updates
- Apply OS updates
- Firewall configuration
- Application hardening
 - Install latest patches
 - Disable unneeded services, roles, or features

Host security

- Antivirus
- Anti-malware
- Host intrusion detection system (HIDS)/Host intrusion prevention system (HIPS)

Hardware hardening

- Disable unneeded hardware
- Disable unneeded physical
- ports, devices, or functions
- Set BIOS password
- Set boot order

Patching

- Testing
- Deployment
- Change management

Summarize proper server decommissioning concepts.

Proper removal procedures

- Company policies
- Verify non-utilization
- Documentation
 - Asset management
 - Change management
- Media destruction
- Disk wiping
 - Physical
 - Degaussing
 - Shredding
 - Crushing
 - Incineration
 - Purposes for media destruction

Media retention requirements

Cable remediation

- Power
- Networking
- Electronics recycling
 - Internal vs. external
 - Repurposing



^{3.7} Explain the importance of backups and restores.

Backup methods

- Full
- Synthetic full
- Incremental
- Differential
- Archive
- Open file
- Snapshot

Backup frequency

- Media rotation
- Backup media types
 - Tape
 - Cloud
 - Disk
 - Print
- File-level vs. system-state backup

Restore methods

- Overwrite
- Side by side
- Alternate location path
- Backup validation
 - Media integrity
 - Equipment
 - Regular testing intervals
- Media inventory before restoration

Explain the importance of disaster recovery. 3.8

• Site types

- Hot site
- Cold site
- Warm site
- Cloud
- Separate geographic locations

Replication

- Constant
- Background
- Synchronous vs. asynchronous

- Application consistent
- File locking
- Mirroring
- Bidirectional

Testing

- Tabletops
- Live failover
- Simulated failover
- Production vs. non-production





•4.0 Troubleshooting

Explain the troubleshooting theory and methodology.

- Identify the problem and determine the scope.
 - Question users/stakeholders and identify changes to the server/environment.
 - Collect additional
 - documentation/logs.
 - If possible, replicate the
 - problem as appropriate.
 - If possible, perform backups before making changes.
 - Escalate, if necessary.

- Establish a theory of probable cause (question the obvious).
 - Determine whether there is a common element or symptom causing multiple problems.
- Test the theory to determine the cause. - Once the theory is confirmed,
 - determine the next steps to resolve the problem.
 - If the theory is not confirmed, establish a new theory.
- Establish a plan of action to resolve the problem.
 - Notify impacted users.

- Implement the solution or escalate.
 - Make one change at a time and test/confirm the change has resolved the problem.
 - If the problem is not resolved. reverse the change, if appropriate, and implement a new change.
- Verify full system functionality and, if applicable, implement preventive measures.
- Perform a root cause analysis.
- Document findings, actions, and outcomes throughout the process.

4.2 Given a scenario, troubleshoot common hardware failures.

Common problems

- Predictive failures
- Memory errors and failures
 - System crash
 - Blue screen
 - Purple screen
 - Memory dump
 - Utilization
 - Power-on self-test (POST) errors
 - Random lockups
 - Kernel panic
- Complementary metal-oxidesemiconductor (CMOS) battery failure
- System lockups
- Random crashes
- Fault and device indication
 - Visual indicators

- Light-emitting diode (LED)
- Liquid crystal display
- (LCD) panel readouts
- Auditory or olfactory cues
- Misallocated virtual resources
- Causes of common problems
 - Technical
 - Power supply fault
 - Malfunctioning fans
 - Improperly seated heat sink
 - Improperly seated cards
 - Incompatibility of components
 - Cooling failures
 - Backplane failure
 - Firmware incompatibility
 - CPU or GPU overheating

- Environmental
 - Dust
 - Humidity
 - Temperature
- Tools and techniques
 - Event logs
 - Firmware upgrades or downgrades
 - Hardware diagnostics
 - Compressed air
 - Electrostatic discharge
 - (ESD) equipment
 - Reseating or replacing
 - components and/or cables

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- - POST codes

^{4.3} Given a scenario, troubleshoot storage problems.

Common problems

- Boot errors
- Sector block errors
- Cache battery failure
- Read/write errors
- Failed drives
- Page/swap/scratch file or partition
- Partition errors
- Slow file access
- OS not found
- Unsuccessful backup
- Unable to mount the device
- Drive not available
- Cannot access logical drive
- Data corruption
- Slow I/O performance
- Restore failure
- Cache failure
- Multiple drive failure

Causes of common problems

- Disk space utilization
- Insufficient disk space
- Misconfigured RAID
- Media failure
- Drive failure
- Controller failure
- Hot bus adapter (HBA) failure
- Loose connectors
- Cable problems
- Misconfiguration
- Corrupt boot sector
- Corrupt filesystem table
- Array rebuild
- Improper disk partition
- Bad sectors
- Cache battery failure
- Cache turned off
- Insufficient space

- Improper RAID configuration
- Mismatched drives
- Backplane failure
- Tools and techniques
 - Partitioning tools
 - Disk management
 - RAID and array management
 - System logs
 - Disk mounting commands
 - net use
 - mount
 - Monitoring tools
 - Visual inspections

- Scheduled reboots

- Software firewalls

- System time

- Starting

- Stopping

- Services and processes

- Dependencies

- Status identification

- Configuration management

- Puppet/Chef/Ansible

- Group Policy Object (GPO)

- Hardware compatibility list (HCL)

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manager (SCCM)

- System center configuration

- Zones

- Clocks

- Adding or removing ports

- Network time protocol (NTP)

- Auditory inspections

44 Given a scenario, troubleshoot common OS and software problems.

Common problems

- Unable to log on
- Unable to access resources
- Unable to access files
- System file corruption
- End of life/end of support
- Slow performance
- Cannot write to system logs
- Service failures
- System or application hanging
- Freezing
- Patch update failure
- Causes of common problems
- Incompatible drivers/modules
 - Improperly applied patches
 - Unstable drivers or software
 - Server not joined to domain
 - Clock skew
 - Memory leaks
 - Buffer overrun
 - Incompatibility
 - Insecure dependencies
 - Version management

CompTIA Server+ Certification Exam Objectives 1.0 (Exam Number: SK0-005)

- Architecture
- Update failures
- Missing updates
- Missing dependencies
- Downstream failures due to updates
- Inappropriate applicationlevel permissions
- Improper CPU affinity and priority
- OS and software tools and techniques
 - Patching
 - Upgrades
 - Downgrades
 - Package management
 - Recovery
 - Boot options
 - Safe mode
 - Single user mode
 - Reload OS
 - Snapshots
 - Proper privilege escalations
 - runas/Run As
 - sudo
 - su

^{4.5} Given a scenario, troubleshoot network connectivity issues.

Common problems

- Lack of Internet connectivity
- Resource unavailable
- Receiving incorrect DHCP information
- Non-functional or unreachable
- Destination host unreachable
- Unknown host
- Unable to reach remote subnets
- Failure of service provider
- Cannot reach server by hostname/ fully qualified domain name (FQDN)

Causes of common problems

- Improper IP configuration
- IPv4 vs. IPv6 misconfigurations
- Improper VLAN configuration

- Improper privilege escalation

- Cannot access network fileshares

- Excessive access

- Unable to open files

- Open ports

- Active

- Inactive - Orphan/zombie

- Services

Causes of common problems

- Applications will not load

- Network port security

- Component failure
- Incorrect OS route tables
- Bad cables
- Firewall (misconfiguration,
- hardware failure, software failure)
- Misconfigured NIC
- DNS and/or DHCP failure
- DHCP server misconfigured
- Misconfigured hosts file
- Tools and techniques
 - Check link lights
 - Confirm power supply
 - Verify cable integrity
 - Check appropriate cable selection
 - Commands
 - ipconfig

- ip addr
- ping - tracert
- traceroute
- nslookup
- netstat
- dig - telnet
- nc
- nbtstat - route

Given a scenario, troubleshoot security problems.

Common concerns - File integrity

Security tools

- Port scanners
- Sniffers
- Telnet clients
- Anti-malware
- Antivirus
- File integrity
 - Checksums
 - Monitoring
 - Detection
 - Enforcement
- User access controls
 - SELinux
 - User account control (UAC)
- Anti-malware configurations
- Improperly configured
- local/group policies
- Improperly configured firewall rules

- Intrusion detection configurations

- Misconfigured permissions
- Virus infection
- Malware
- Rogue processes/services
- Data loss prevention (DLP)



CompTIA Server+ (SK0-005) Acronym List

The following is a list of acronyms that appear on the CompTIA Server+ exam. Candidates are encouraged to review the complete list and attain a working knowledge of all listed acronyms as a part of a comprehensive exam preparation program.

ACRONYM	SPELLED OUT	ACRONYM	SPELLED OUT
ACL	Access Control List	GPU	Graphics Processing Unit
AD	Active Directory	GUI	Graphical User Interface
APIPA	Automatic Private IP Address	HBA	Host Bus Adapter
BCP	Business Continuity Plan	HCL	Hardware Compatibility List
BIA	Business Impact Analysis	HID	Human Interface Device
BIOS	Basic Input/Output System	HIDS	Host Intrusion Detection System
BSOD	Blue Screen of Death	HIPS	Host Intrusion Prevention System
CIDR	Classless Inter-Domain Routing	HTTP	Hyper Text Transport Protocol
CIFS	Common Internet File System	HTTPS	Secure Hyper Text Transport Protocol
CIMC	Cisco Integrated Management Controller	HVAC	Heating Ventilation and Air Conditioning
CLI	Command Line Interface	IDF	Intermediate Distribution Frame
CMOS	Complementary Metal-Oxide-Semiconductor	idrac	Integrated Dell Remote Access Control
COOP	Continuity of Operations	IDS	Intrusion Detection System
CPU	Central Processing Unit	IIS	Internet Information Services
CRU	Customer Replaceable Unit	ilo	Integrated Lights Out
DAS	Direct Attached Storage	IMAP4	Internet Mail Access Protocol
DC	Domain Controller	Intel-VT	Intel Virtualization Technology
DDoS	Distributed Denial of Service	IOPS	Input Output Operations per Second
DHCP	Dynamic Host Configuration Protocol	IP	Internet Protocol
DLP	Data Loss Prevention	IP KVM	Internet Protocol Keyboard-Video-Mouse
DLT	Digital Linear Tape	IPMI	Intelligent Platform Management Interface
DMZ	Demilitarized Zone	IPS	Intrusion Prevention System
DNS	Domain Name Service	IPSEC	Internet Protocol Security
DR	Disaster Recovery	IPv6	Internet Protocol version 6
ECC	Error Checking and Correction	iSCSI	Internetworking Small Computer System Interface
EFS	Encrypting File System	ISO	International Organization for Standardization
eSATA	External Serial Advanced Technology Attachment	JBOD	Just a Bunch of Disks
ESD	Electrostatic Discharge	KVM	Keyboard-Video-Mouse
FAT	File Allocation Table	LAN	Local Area Network
FCoE	Fibre Channel over Ethernet	LC	Lucent Connector/Little Connector
FQDN	Fully Qualified Domain Name	LCD	Liquid Crystal Display
FRU	Field Replaceable Unit	LDAP	Lightweight Directory Access Protocol
FTP	File Transfer Protocol	LED	Light Emitting Diode
FTPS	File Transfer Protocol over SSL	LTO	Linear Tape-Open
GFS	Grandfather Father Son	LUN	Logical Unit Number
GPO	Group Policy Object	LVM	Logical Volume Management
GPT	GUID Partition Table	MAC	Media Access Control

MBRMaster Boor RecordSASSerial Attached SC31MDFMain Distribution FrameSATASarial ATAMBAManagement Information BaseSCCMSystem Configuration ManagementMMCMicrosoft Management ConsoleSCPSecure Cogn ProtocolMRUMiscrosoft Management ConsoleSCSSmall Computer System InterfaceMRTMean Time Bekeven FailureSDSecure DigitalMTFMean Time Bekeven FailureSCSSecure DigitalMTRMean Time to RecoverSELinuxSecure DigitalNACNetwork Attached StorageSFPSamil Forn Factor PluggableNASNetwork Attached StorageSFPSecure File Transfer ProtocolNASNetwork Ratic StrandationSIAService Level AgreementNEISINational instituted CardSOLStructured Query LanguageNISTNational instituted Standards InchnologySSLSecure ShellNISTNetwork Intrusion Detection SystemSSOSolid State DriveNISTNetwork Intrusion Detection SystemSSOSolid State DriveNISTNetwork Intrusion Detection SystemSSOSolid State DriveNISTNetwork Koad BalancingSSLSecure ShellNISTNetwork Intrusion StateTransmission Control ProtocolOFMOrganial Equipment ManufacturerTCPTransmission Control ProtocolOFMOrganial Equipment ManufacturerUDPUser Account ControlPOLOrganial Equipment ManufacturerUDP </th <th>ACRONYM</th> <th>SPELLED OUT</th> <th>ACRONYM</th> <th>SPELLED OUT</th>	ACRONYM	SPELLED OUT	ACRONYM	SPELLED OUT
NFA NIBMultifactor AuthenticationSCStandar ConnectorNIBManagement Information BaseSCCMSystem Center Configuration ManagementMACMicrosoft Management ConsoleSCPSecure Cipy ProtocolMRIFMean Time Between FailureSDSccure DigitalMTFRMean Time to RecoverSELinuxSecure DigitalNACNetwork Attached StorageSFIPSecure DigitalNACNetwork Attached StorageSFIPSecure File Transfer ProtocolNATNetwork Attached StorageSFIPSecure DigitalNATNetwork Attached StorageSFIPSecure DigitalNASNetwork Katichug Out Output SystemSIMSimple Nall Transfor ProtocolNISTNetwork Katichug CardSQLStructured Query LanguageNIDSNetwork Natinal Institute of Standards and TechnologySSLSecure Solets LayerNISTNational Institute of Standards and TechnologySSLSecure Solets LayerNISTNetwork Not Radards and TechnologySSLSecure Solets LayerNISTNetwork Kong SystemSSDSingle Sign-OnNTFNetwork Kong SystemSSDSingle Sign-OnNTFNetwork Kong SystemSSLSecure Solets LayerNTSNetwork Kong SystemTCPTransmission Control ProtocolOFOriginal Equipment ManufacturerTCPTransmission Control ProtocolOFOriginal Equipment ManufacturerTCP/IPTransmission Control ProtocolOFOperating	MBR		SAS	
MIACManagement information BaseSCCMSystem Center Configuration ManagementMMCMicrosoft Management ConsoleSCPSecure Copy ProtocolMRUMost Recenty UsedSCSISmall Computer System InterfaceMTFRMean Time RekoverSLinuxSecure DigitalMTRMean Time RekoverSFPSecure DigitalNACNetwork Access ControlSFPSmall Form Factor PluggableNASNetwork Access ControlSFPSecure Fild Transfer ProtocolNATNetwork Address TranslationSLAService Level AgreementNEBIOSNetwork Basic Input Output SystemSDMSimple Metwork Management ProtocolNISNetwork Interface CardSQLStructured Query LanguageNISNetwork Interface CardSQLScrure Solid State DriveNISNetwork Interface CardSQLScrure Solid State DriveNISNetwork Interface CardSQ	MDF	Main Distribution Frame	SATA	Serial ATA
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PKIPublic Key InfrastructureVBSVisual Basic ScriptPOSTPower on Self-TestVLANVirtual Local Area NetworkPSUPower Supply UnitVMVirtual MachinePXEPreboot Execution EnvironmentVMFSVMWare File SystemQSFPQuad-Small Form Factor PluggableVNCVirtual Network ComputingRADIUSRemote Authentication Dial-in User ServiceVNICVirtual Network Interface CardRAIDRedundant Array ofVoIPVoice over IPInexpensive/Integrated Disks/DrivesVPNVirtual Private NetworkRAMRandom Access MemoryVSSVolume Shadow ServiceRASRemote Access ServerVTVirtualization TechnologyRDPResilient File SystemWINSWindows Internet Naming ServiceRFCRequest for CommentsWMIWindows Management InstrumentationRFIDRadio Frequency IdentificationWOLWake on LANRISRemote Installation ServiceWSUSWindows Software Update ServicesRJ45Registered Jack 45WWNNWorld Wide Port NameRPMRotations per MinuteWWPNWorld Wide Port NameRPORecovery Point ObjectiveZFSZ File System	PDU	Power Distribution Unit	USB	Universal Serial Bus
POSTPower on Self-TestVLANVirtual Local Area NetworkPSUPower Supply UnitVMVirtual MachinePXEPreboot Execution EnvironmentVMFSVMWare File SystemQSFPQuad-Small Form Factor PluggableVNCVirtual Network ComputingRADIUSRemote Authentication Dial-in User ServicevNICVirtual Network Interface CardRAIDRedundant Array ofVoIPVoice over IPInexpensive/Integrated Disks/DrivesVPNVirtual Private NetworkRAMRandom Access MemoryVSSVolume Shadow ServiceRASRemote Access ServerVTVirtualization TechnologyRDPReguest for CommentsWDSWindows Internet Naming ServiceRFCRequest for CommentsWMIWindows Management InstrumentationRFIDRadio Frequency IdentificationWOLWake on LANRISRegistered Jack 45WWNNWorld Wide Node NameRPMRotations per MinuteWWPNWorld Wide Port NameRPORecovery Point ObjectiveXDExecute DisableRTORecovery Time ObjectiveZFSZ File System	PII	Personally Identifiable Information	UUID	Universal Unique Identifier
PSUPower Supply UnitVMVirtual MachinePXEPreboot Execution EnvironmentVMFSVMWare File SystemQSFPQuad-Small Form Factor PluggableVNCVirtual Network ComputingRADIUSRemote Authentication Dial-in User ServicevNICVirtual Network Interface CardRAIDRedundant Array ofVoIPVoice over IPInexpensive/Integrated Disks/DrivesVPNVirtual Private NetworkRAMRandom Access MemoryVSSVolume Shadow ServiceRASRemote Access ServerVTVirtualization TechnologyRDPRemote Desktop ProtocolWDSWindows Deployment ServicesRFCRequest for CommentsWMIWindows Management InstrumentationRFIDRadio Frequency IdentificationWOLWake on LANRISRegistered Jack 45WWNNWorld Wide Node NameRPMRotations per MinuteWWPNWorld Wide Port NameRPORecovery Point ObjectiveXDExecute DisableRTORecovery Time ObjectiveXDExecute Disable	PKI	Public Key Infrastructure	VBS	Visual Basic Script
PXEPrebort Execution EnvironmentVMFSVMWare File SystemQSFPQuad-Small Form Factor PluggableVNCVirtual Network ComputingRADIUSRemote Authentication Dial-in User ServicevNICVirtual Network Interface CardRAIDRedundant Array ofVoIPVoice over IPInexpensive/Integrated Disks/DrivesVPNVirtual Private NetworkRAMRandom Access MemoryVSSVolume Shadow ServiceRASRemote Access ServerVTVirtualization TechnologyRDPRemote Desktop ProtocolWDSWindows Deployment ServicesReFSResilient File SystemWINSWindows Internet Naming ServiceRFCRequest for CommentsWMIWindows Management InstrumentationRISRemote Installation ServiceWSUSWindows Software Update ServicesRJ45Registered Jack 45WWNNWorld Wide Node NameRPMRotations per MinuteWWPNWorld Wide Port NameRPORecovery Point ObjectiveXDExecute DisableRTORecovery Time ObjectiveZFSZ File System	POST	Power on Self-Test	VLAN	Virtual Local Area Network
QSFPQuad-Small Form Factor PluggableVNCVirtual Network ComputingRADIUSRemote Authentication Dial-in User ServicevNICVirtual Network Interface CardRAIDRedundant Array ofVoIPVoice over IPInexpensive/Integrated Disks/DrivesVPNVirtual Private NetworkRAMRandom Access MemoryVSSVolume Shadow ServiceRASRemote Access ServerVTVirtualization TechnologyRDPRemote Desktop ProtocolWDSWindows Deployment ServicesReFSResilient File SystemWINSWindows Management InstrumentationRFCRequest for CommentsWOLWake on LANRISRemote Installation ServiceWSUSWindows Software Update ServicesRJ45Registered Jack 45WWNNWorld Wide Node NameRPMRotations per MinuteWWPNWorld Wide Port NameRPORecovery Point ObjectiveXDExecute DisableRTORecovery Time ObjectiveZFSZ File System	PSU	Power Supply Unit	VM	Virtual Machine
RADIUSRemote Authentication Dial-in User ServicevNICVirtual Network Interface CardRAIDRedundant Array ofVoIPVoice over IPInexpensive/Integrated Disks/DrivesVPNVirtual Private NetworkRAMRandom Access MemoryVSSVolume Shadow ServiceRASRemote Access ServerVTVirtualization TechnologyRDPRemote Desktop ProtocolWDSWindows Deployment ServicesReFSResilient File SystemWINSWindows Internet Naming ServiceRFCRequest for CommentsWMIWindows Management InstrumentationRISRemote Installation ServiceWSUSWindows Software Update ServicesRJ45Registered Jack 45WWNNWorld Wide Node NameRPMRotations per MinuteWWPNWorld Wide Port NameRPORecovery Point ObjectiveXDExecute DisableRTORecovery Time ObjectiveZFSZ File System	PXE	Preboot Execution Environment	VMFS	VMWare File System
RAIDRedundant Array of Inexpensive/Integrated Disks/DrivesVoIPVoice over IPRAMRandom Access MemoryVSSVolume Shadow ServiceRASRemote Access ServerVTVirtual ization TechnologyRDPRemote Desktop ProtocolWDSWindows Deployment ServicesReFSResilient File SystemWINSWindows Internet Naming ServiceRFCRequest for CommentsWMIWindows Management InstrumentationRFIDRadio Frequency IdentificationWOLWake on LANRISRegistered Jack 45WWNNWorld Wide Node NameRPMRotations per MinuteWWPNWorld Wide Port NameRPORecovery Point ObjectiveXDExecute DisableRTORecovery Time ObjectiveZFSZ File System	QSFP	Quad-Small Form Factor Pluggable	VNC	Virtual Network Computing
Inexpensive/Integrated Disks/DrivesVPNVirtual Private NetworkRAMRandom Access MemoryVSSVolume Shadow ServiceRASRemote Access ServerVTVirtualization TechnologyRDPRemote Desktop ProtocolWDSWindows Deployment ServicesReFSResilient File SystemWINSWindows Internet Naming ServiceRFCRequest for CommentsWMIWindows Management InstrumentationRFIDRadio Frequency IdentificationWOLWake on LANRISRemote Installation ServiceWWNNWorld Wide Node NameRPMRotations per MinuteWWPNWorld Wide Port NameRPORecovery Point ObjectiveXDExecute DisableRTORecovery Time ObjectiveZFSZ File System	RADIUS	Remote Authentication Dial-in User Service	VNIC	Virtual Network Interface Card
RAMRandom Access MemoryVSSVolume Shadow ServiceRASRemote Access ServerVTVirtualization TechnologyRDPRemote Desktop ProtocolWDSWindows Deployment ServicesReFSResilient File SystemWINSWindows Internet Naming ServiceRFCRequest for CommentsWMIWindows Management InstrumentationRFIDRadio Frequency IdentificationWOLWake on LANRISRemote Installation ServiceWWNNWorld Wide Node NameRJ45Registered Jack 45WWNNWorld Wide Port NameRPORecovery Point ObjectiveXDExecute DisableRTORecovery Time ObjectiveZFSZ File System	RAID	Redundant Array of	VoIP	Voice over IP
RASRemote Access ServerVTVirtualization TechnologyRDPRemote Desktop ProtocolWDSWindows Deployment ServicesReFSResilient File SystemWINSWindows Internet Naming ServiceRFCRequest for CommentsWMIWindows Management InstrumentationRFIDRadio Frequency IdentificationWOLWake on LANRISRemote Installation ServiceWWNNWorld Wide Node NameRJ45Registered Jack 45WWNNWorld Wide Port NameRPMRotations per MinuteWWPNWorld Wide Port NameRPORecovery Point ObjectiveXDExecute DisableRTORecovery Time ObjectiveZFSZ File System		Inexpensive/Integrated Disks/Drives	VPN	Virtual Private Network
RDPRemote Desktop ProtocolWDSWindows Deployment ServicesReFSResilient File SystemWINSWindows Internet Naming ServiceRFCRequest for CommentsWMIWindows Management InstrumentationRFIDRadio Frequency IdentificationWOLWake on LANRISRemote Installation ServiceWSUSWindows Software Update ServicesRJ45Registered Jack 45WWNNWorld Wide Node NameRPMRotations per MinuteWWPNWorld Wide Port NameRPORecovery Point ObjectiveXDExecute DisableRTORecovery Time ObjectiveZFSZ File System	RAM	Random Access Memory	VSS	Volume Shadow Service
ReFSResilient File SystemWINSWindows Internet Naming ServiceRFCRequest for CommentsWMIWindows Management InstrumentationRFIDRadio Frequency IdentificationWOLWake on LANRISRemote Installation ServiceWSUSWindows Software Update ServicesRJ45Registered Jack 45WWNNWorld Wide Node NameRPMRotations per MinuteWWPNWorld Wide Port NameRPORecovery Point ObjectiveXDExecute DisableRTORecovery Time ObjectiveZFSZ File System	RAS	Remote Access Server	VT	Virtualization Technology
RFCRequest for CommentsWMIWindows Management InstrumentationRFIDRadio Frequency IdentificationWOLWake on LANRISRemote Installation ServiceWSUSWindows Software Update ServicesRJ45Registered Jack 45WWNNWorld Wide Node NameRPMRotations per MinuteWWPNWorld Wide Port NameRPORecovery Point ObjectiveXDExecute DisableRTORecovery Time ObjectiveZFSZ File System	RDP	Remote Desktop Protocol	WDS	Windows Deployment Services
RFIDRadio Frequency IdentificationWOLWake on LANRISRemote Installation ServiceWSUSWindows Software Update ServicesRJ45Registered Jack 45WWNNWorld Wide Node NameRPMRotations per MinuteWWPNWorld Wide Port NameRPORecovery Point ObjectiveXDExecute DisableRTORecovery Time ObjectiveZFSZ File System	ReFS	Resilient File System	WINS	Windows Internet Naming Service
RISRemote Installation ServiceWSUSWindows Software Update ServicesRJ45Registered Jack 45WWNNWorld Wide Node NameRPMRotations per MinuteWWPNWorld Wide Port NameRPORecovery Point ObjectiveXDExecute DisableRTORecovery Time ObjectiveZFSZ File System	RFC	Request for Comments	WMI	Windows Management Instrumentation
RJ45Registered Jack 45WWNNWorld Wide Node NameRPMRotations per MinuteWWPNWorld Wide Port NameRPORecovery Point ObjectiveXDExecute DisableRTORecovery Time ObjectiveZFSZ File System	RFID	Radio Frequency Identification	WOL	Wake on LAN
RPMRotations per MinuteWWPNWorld Wide Port NameRPORecovery Point ObjectiveXDExecute DisableRTORecovery Time ObjectiveZFSZ File System	RIS	Remote Installation Service	WSUS	Windows Software Update Services
RPORecovery Point ObjectiveXDExecute DisableRTORecovery Time ObjectiveZFSZ File System	RJ45	Registered Jack 45	WWNN	World Wide Node Name
RTO Recovery Time Objective ZFS Z File System	RPM	Rotations per Minute	WWPN	World Wide Port Name
	RPO	Recovery Point Objective	XD	Execute Disable
SAN Storage Area Network	RTO	Recovery Time Objective	ZFS	Z File System
	SAN	Storage Area Network		

Server+ Proposed Hardware and Software List

CompTIA has included this sample list of hardware and software to assist candidates as they prepare for the Server+ exam. This list may also be helpful for training companies that wish to create a lab component for their training offering. The bulleted lists below each topic are samples and are not exhaustive.

HARDWARE

- Computer capable of virtualization
- Cables
- USB flash drive
- KVM*
- Rack*
- UPS*
- Switch*
- Storage device*

*Ideal, but not necessary for lab setup

SOFTWARE

- Server operating system
- Virtualization software
- Antivirus/anti-malware



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