

Excel at SY0-601 Security+ Exam: Proven Study Methods for Triumph

CompTIA Security+ CERTIFICATION QUESTIONS & ANSWERS

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Getting Ready for the SY0-601 Exam:

Use proven study tips and techniques to prepare for the <u>SY0-601 exam</u> confidently. Boost your readiness, improve your understanding regarding the Core, and increase your chances of success in the CompTIA CompTIA Security+ with our comprehensive guide. Start your journey towards exam excellence today.

CompTIA Security+ Certification Details:

Exam Name	CompTIA Security+
Exam Code	SY0-601
Exam Price	\$404 (USD)
Duration	90 mins
Number of Questions	90
Passing Score	750 / 900
Schedule Exam	Pearson VUE
Sample Questions	CompTIA Security+ Sample Questions
Practice Exam	CompTIA SY0-601 Certification Practice Exam

Explore SY0-601 Syllabus:

Торіс	Details		
Attac	Attacks, Threats, and Vulnerabilities - 24%		
Compare and contrast different types of social engineering techniques.	 Phishing Smishing Vishing Spam Spam over instant messaging (SPIM) Spear phishing Dumpster diving Shoulder surfing Pharming Tailgating Eliciting information Whaling Prepending Identity fraud 		

Details
15. Invoice scams
16. Credential harvesting
17. Reconnaissance
18. Hoax
19. Impersonation
20. Watering hole attack
21. Typosquatting
22. Pretexting
23. Influence campaigns
Hybrid warfare
Social media
24. Principles (reasons for effectiveness)
Authority
Intimidation
Consensus
Scarcity
Familiarity
Trust
Urgency
1. Malware
Ransomware
 Trojans
Worms
 Potentially unwanted programs (PUPs)
Fileless virus
Command and control
Bots
Cryptomalware
Logic bombs
 Spyware
 Keyloggers
 Remote access Trojan (RAT)
 Rootkit
Backdoor
2. Password attacks
Spraying
 Dictionary
Brute force

Торіс	Details
Topic	 Offline Online Rainbow table Plaintext/unencrypted 3. Physical attacks Malicious Universal Serial Bus (USB) cable Malicious flash drive Card cloning Skimming 4. Adversarial artificial intelligence (AI) Tainted training data for machine learning (ML) Security of machine learning algorithms 5. Supply-chain attacks 6. Cloud-based vs. on-premises attacks
	 7. Cryptographic attacks Birthday Collision Downgrade
Given a scenario, analyze potential indicators associated with application attacks.	 Privilege escalation Cross-site scripting Injections Structured query language (SQL) Dynamic-link library (DLL) Lightweight Directory Access Protocol (LDAP) Extensible Markup Language (XML) Pointer/object dereference Directory traversal Buffer overflows Race conditions Time of check/time of use Error handling Improper input handling Replay attack Session replays Integer overflow Request forgeries Server-side Cross-site

Торіс	Details
	 14. Resource exhaustion 15. Memory leak 16. Secure Sockets Layer (SSL) stripping 17. Driver manipulation Shimming Refactoring 18. Pass the hash
Given a scenario, analyze potential indicators associated with network attacks.	 Wireless Evil twin Rogue access point Bluesnarfing Bluejacking Disassociation Jamming Radio frequency identification (RFID) Near-field communication (NFC) Initialization vector (IV) On-path attack (previously known as man-in-the-middle attack/ man-in-the-browser attack) Layer 2 attacks Address Resolution Protocol (ARP) poisoning Media access control (MAC) flooding MAC cloning Domain name system (DNS) Domain hijacking DNS poisoning Uniform Resource Locator (URL) redirection Domain reputation Distributed denial-of-service (DDoS) Network Application Operational technology (OT) Malicious code or script execution PowerShell Python Bash Macros Visual Basic for Applications (VBA)

Торіс	Details
	1. Actors and threats
	Advanced persistent threat (APT)
	Insider threats
	State actors
	Hacktivists
	Script kiddies
	Criminal syndicates
	Hackers
	- Authorized
	- Unauthorized
	- Semi-authorized
	Shadow IT
	Competitors
	2. Attributes of actors
	Internal/external Lovel of combinition/composition/
	Level of sophistication/capability
	Resources/fundingIntent/motivation
Explain different threat	
intelligence sources.	Direct accessWireless
	Email
	 Supply chain
	 Social media
	 Removable media
	 Cloud
	4. Threat intelligence sources
	Open-source intelligence (OSINT)
	 Closed/proprietary
	 Vulnerability databases
	 Public/private information- sharing centers
	 Dark web
	 Indicators of compromise
	 Automated Indicator Sharing (AIS)
	- Structured Threat Information eXpression
	(STIX)/Trusted Automated eXchange of
	Intelligence Information (TAXII)
	Predictive analysis

Торіс	Details
	Threat maps
	File/code repositories
	5. Research sources
	Vendor websites
	Vulnerability feeds
	Conferences
	Academic journals
	Request for comments (RFC)
	Local industry groups
	Social media
	Threat feeds
	 Adversary tactics, techniques, and procedures (TTP)
	 Cloud-based vs. on-premises vulnerabilities Zero-day Weak configurations
	Open permissions
	 Unsecure root accounts
	Errors
	Weak encryption
	Unsecure protocols
	Default settings
	Open ports and services
_	4. Third-party risks
Explain the security	Vendor management
concerns associated	- System integration
with various types of vulnerabilities.	- Lack of vendor support
	Supply chain
	 Outsourced code development
	Data storage
	5. Improper or weak patch management
	Firmware
	Operating system (OS)
	Applications
	6. Legacy platforms
	7. Impacts
	Data loss
	Data breaches

Торіс	Details
	 Data exfiltration Identity theft Financial Reputation Availability loss
Summarize the techniques used in security assessments.	 Threat hunting Intelligence fusion Threat feeds Advisories and bulletins Maneuver Vulnerability scans False positives False negatives Log reviews Credentialed vs. non-credentialed Intrusive vs. non-intrusive Application Web application Network Common Vulnerabilities and Exposures (CVE)/Common Vulnerability Scoring System (CVSS) Configuration review Syslog/Security information and event management (SIEM) Review reports Packet capture Data inputs User behavior analysis Security monitoring Log aggregation Log collectors Security orchestration, automation, and response (SOAR)
Explain the techniques used in penetration testing.	 Penetration testing Known environment Unknown environment

Торіс	Details
	Partially known environment
	Rules of engagement
	Lateral movement
	Privilege escalation
	Persistence
	Cleanup
	Bug bounty
	Pivoting
	2. Passive and active reconnaissance
	Drones
	War flying
	War driving
	Footprinting
	OSINT
	3. Exercise types
	Red-team
	Blue-team
	White-team
	Purple-team
	Architecture and Design - 21%
	1. Configuration management
	Diagrams
	Baseline configuration
	 Standard naming conventions
	 Internet protocol (IP) schema
	2. Data sovereignty
Explain the	3. Data protection
importance of security	 Data loss prevention (DLP)
concepts in an	Masking
enterprise	Encryption
environment.	At rest
	In transit/motion
	In processing
	Tokenization
	Rights management
	4. Geographical considerations
	5. Response and recovery controls
	6. Secure Sockets Layer (SSL)/Transport Layer

Торіс	Details
	Security (TLS) inspection 7. Hashing 8. API considerations 9. Site resiliency • Hot site • Cold site • Warm site 10. Deception and disruption • Honeypots • Honeypots • Honeyfiles • Honeynets • Fake telemetry
Summarize virtualization and cloud computing concepts.	 DNS sinkhole 1. Cloud models Infrastructure as a service (IaaS) Platform as a service (PaaS) Software as a service (SaaS) Anything as a service (XaaS) Public Community Private Hybrid 2. Cloud service providers Managed service provider (MSP)/ managed security service provider (MSSP) 4. On-premises vs. off-premises Fog computing Edge computing Thin client Containers Microservices/API 10. Infrastructure as code Software-defined networking (SDN) Software-defined visibility (SDV) 11. Serverless architecture 12. Services integration Resource policies Transit gateway Virtualization Virtual machine (VM) sprawl avoidance



Торіс	Details
	VM escape protection
Summarize secure application development, deployment, and automation concepts.	 Environment Development Test Staging Production Quality assurance (QA) Provisioning and deprovisioning Integrity measurement Secure coding techniques Normalization Stored procedures Obfuscation/camouflage Code reuse/dead code Server-side vs. client-side execution and validation Memory management Use of third-party libraries and software development kits (SDKs) Data exposure Open Web Application Security Project (OWASP) Software diversity Compiler Binary Automated courses of action Continuous monitoring Continuous validation Continuous delivery Continuous delivery Scalability Version control
Summarize authentication and authorization design concepts.	 Authentication methods Directory services Federation Attestation

Торіс	Details
	 Technologies Time-based one- time password (TOTP) HMAC-based one-time password (HOTP) Short message service (SMS) Token key Static codes Authentication applications Push notifications Phone call
	Smart card authentication
	2. Biometrics
	Fingerprint
	Retina
	• Iris
	Facial
	Voice
	Vein
	Gait analysis
	Efficacy rates
	False acceptance
	False rejection
	Crossover error rate
	 Multifactor authentication (MFA) factors and attributes
	 Factors Something you know Something you have Something you are
	 Attributes Somewhere you are Something you can do Something you exhibit Someone you know
	4. Authentication, authorization, and accounting (AAA)
	Cloud vs. on-premises requirements
Civon o concric	1. Redundancy
Given a scenario, implement	Geographic dispersal
cybersecurity	• Disk
resilience.	- Redundant array of inexpensive disks (RAID) levels

Торіс	Details
	- Multipath
	Network
	- Load balancers
	 Network interface card (NIC) teaming
	Power
	- Uninterruptible power supply (UPS)
	- Generator - Dual supply
	- Managed power distribution units (PDUs)
	2. Replication
	Storage area network
	• VM
	3. On-premises vs. cloud
	4. Backup types
	• Full
	Incremental
	Snapshot
	Differential
	Tape
	Disk
	• Сору
	Network-attached storage (NAS)
	Storage area network
	Cloud
	Image
	Online vs. offline
	Offsite storage
	- Distance considerations
	5. Non-persistence
	Revert to known state
	 Last known-good configuration
	Live boot media
	6. High availability
	Scalability
	7. Restoration order
	8. Diversity
	Technologies
	Vendors
	Crypto



Торіс	Details
	Controls
	1. Embedded systems
	Raspberry Pi
	Field-programmable gate array (FPGA)
	Arduino
	2. Supervisory control and data acquisition
	(SCADA)/industrial control system (ICS)
	Facilities
	Industrial
	Manufacturing
	Energy
	Logistics
	3. Internet of Things (IoT)
	Sensors
	Smart devices
	Wearables
	Facility automation
Explain the security	Weak defaults Specialized
implications of embedded and	4. Specialized
specialized systems.	 Medical systems Vehicles
	 Verneles Aircraft
	Smart meters
	5. Voice over IP (VoIP)
	6. Heating, ventilation, air conditioning (HVAC)
	7. Drones
	8. Multifunction printer (MFP)
	9. Real-time operating system (RTOS) 10. Surveillance systems
	11. System on chip (SoC)
	12. Communication considerations
	• 5G
	Narrow-band
	Baseband radio
	Subscriber identity module (SIM) cards
	Zigbee
	13. Constraints
	Power

Торіс	Details
	 Compute Network Crypto Inability to patch Authentication Range Cost Implied trust
Explain the importance of physical security controls.	 Bollards/barricades Access control vestibules Badges Alarms Signage Cameras Motion recognition Object detection Closed-circuit television (CCTV) Industrial camouflage Personnel Guards Robot sentries Reception Two-person integrity/control

Торіс	Details
	 16. Drones 17. Visitor logs 18. Faraday cages 19. Air gap 20. Screened subnet (previously known as demilitarized zone) 21. Protected cable distribution 22. Secure areas Air gap Vault Safe Hot aisle Cold aisle 23. Secure data destruction Burning Shredding Pulping Pulverizing
	 Degaussing Third-party solutions
	 Digital signatures Key length Key stretching Salting Hashing Key exchange Elliptic-curve cryptography Perfect forward secrecy Quantum
of cryptographic concepts.	 Communications Computing 10. Post-quantum 11. Ephemeral 12. Modes of operation Authenticated Unauthenticated Counter 13. Blockchain Public ledgers

Торіс	Details
	14. Cipher suites
	Stream
	Block
	15. Symmetric vs. asymmetric
	16. Lightweight cryptography
	17. Steganography
	Audio Video
	Video
	Image 18. Homomorphic encryption
	19. Common use cases
	Low power devices
	Low latency
	High resiliency
	 Supporting confidentiality
	Supporting integrity
	Supporting obfuscation
	Supporting authentication
	 Supporting non-repudiation
	20. Limitations
	Speed
	• Size
	Weak keys
	• Time
	Longevity
	Predictability
	Reuse Entropy
	Entropy Computational everbands
	 Computational overheads Besource vs. security constraints
	Resource vs. security constraints Implementation - 25%
1. Protocols	
Given a scenario,	 Domain Name System Security Extensions (DNSSEC)
implement secure	• SSH
protocols.	Secure/Multipurpose Internet Mail Extensions
	(S/MIME)
	Secure Real-time Transport Protocol (SRTP)

Торіс	Details
	Lightweight Directory Access Protocol Over SSL (LDAPS)
	File Transfer Protocol, Secure (FTPS)
	SSH File Transfer Protocol (SFTP)
	 Simple Network Management Protocol, version 3 (SNMPv3)
	 Hypertext transfer protocol over SSL/TLS (HTTPS)
	 IPSec Authentication header (AH)/ Encapsulating Security Payloads (ESP) Tunnel/transport
	 Post Office Protocol (POP)/ Internet Message Access Protocol (IMAP)
	2. Use cases
	Voice and video
	Time synchronization
	Email and web
	File transfer
	Directory services
	Remote access
	Domain name resolution
	 Routing and switching
	 Network address allocation
	Subscription services
	1. Endpoint protection
	Antivirus
	Anti-malware
	 Endpoint detection and response (EDR)
Given a scenario, implement host or application security solutions.	• DLP
	 Next-generation firewall (NGFW)
	Host-based intrusion prevention system (HIPS)
	Host-based intrusion detection system (HIDS)
	Host-based firewall
	2. Boot integrity
	 Boot security/Unified Extensible Firmware Interface (UEFI)
	Measured boot

Details
Boot attestation
3. Database
Tokenization
Salting
Hashing
4. Application security
Input validations
Secure cookies
Hypertext Transfer Protocol (HTTP) headers
Code signing
Allow list
Block list/deny list
Secure coding practices
Static code analysis
- Manual code review
Dynamic code analysis
Fuzzing
5. Hardening
Open ports and services Degistry
Registry Disk operuption
Disk encryptionOS
Patch management
- Third-party updates
- Auto-update
Self-encrypting drive (SED)/ full-disk encryption (FDE)
Opal
7. Hardware root of trust8. Trusted Platform Module (TPM)9. Sandboxing
1. Load balancing
Active/active
 Active/active Active/passive
 Scheduling
 Virtual IP
Persistence
2. Network segmentation

Торіс	Details
	Virtual local area network (VLAN)
	 Screened subnet (previously known as
	demilitarized zone)
	East-west traffic
	Extranet
	Intranet
	Zero Trust
	Virtual private network (VPN)
	Always-on
	Split tunnel vs. full tunnel
	Remote access vs. site-to-site
	IPSec
	SSL/TLS
	HTML5
	 Layer 2 tunneling protocol (L2TP)
	4. DNS
	5. Network access control (NAC)
	Agent and agentless
	 Out-of-band management Port security
	Broadcast storm prevention
	 Bridge Protocol Data Unit (BPDU) guard
	Loop prevention
	 Dynamic Host Configuration Protocol (DHCP) snooping
	Media access control (MAC) filtering
	8. Network appliances
	Jump servers
	Proxy servers
	- Forward
	Reverse
	 Network-based intrusion detection system (NIDS)/network-based intrusion prevention system (NIPS) Signature-based Heuristic/behavior
	- Anomaly
	- Inline vs. passive
	HSM

Торіс	Details
	Sensors
	Collectors
	Aggregators
	 Firewalls Web application firewall (WAF) NGFW Stateful Stateless Unified threat management (UTM) Network address translation (NAT) gateway Content/URL filter Open-source vs. proprietary Hardware vs. software Appliance vs. host-based vs. virtual 9. Access control list (ACL) 10. Route security 11. Quality of service (QoS) 12. Implications of IPv6 13. Port spanning/port mirroring Port taps 14. Monitoring services
	15. File integrity monitors
Given a scenario, install and configure wireless security settings.	 Cryptographic protocols WiFi Protected Access 2 (WPA2) WiFi Protected Access 3 (WPA3) Counter-mode/CBC-MAC Protocol (CCMP) Simultaneous Authentication of Equals (SAE) Authentication protocols Extensible Authentication Protocol (EAP) Protected Extensible Authentication Protocol (PEAP) EAP-FAST EAP-TLS IEEE 802.1X Remote Authentication Dial-in User Service (RADIUS) Federation

Торіс	Details
	Captive portals
	4. Installation considerations
	Site surveys
	Heat maps
	WiFi analyzers
	Channel overlaps
	 Wireless access point (WAP) placement
	 Controller and access point security
	1. Connection methods and receivers
	Cellular
	• WiFi
	Bluetooth
	• NFC
	Infrared
	• USB
	Point-to-point
	Point-to-multipoint
	 Global Positioning System (GPS)
	RFID
	2. Mobile device management (MDM)
	Application management
Given a scenario,	Content management
implement secure	Remote wipe
mobile solutions.	Geofencing
	Geolocation
	Screen locks
	Push notifications
	Passwords and PINs
	Biometrics
	Context-aware authentication
	Containerization
	Storage segmentation
	Full device encryption
	3. Mobile devices
	 MicroSD hardware security module (HSM)
	MDM/Unified Endpoint Management (UEM)
	Mobile application management (MAM)

Торіс	Details
	SEAndroid
	4. Enforcement and monitoring of:
	Third-party application stores
	Rooting/jailbreaking
	Sideloading
	Custom firmware
	Carrier unlocking
	 Firmware over-the-air (OTA) updates
	Camera use
	SMS/Multimedia Messaging Service (MMS)/Rich Communication Services (RCS)
	External media
	USB On-The-Go (USB OTG)
	Recording microphone
	GPS tagging
	WiFi direct/ad hoc
	Tethering
	Hotspot
	Payment methods
	5. Deployment models
	Bring your own device (BYOD)
	Corporate-owned personally enabled (COPE)
	Choose your own device (CYOD)
	Corporate-owned
	Virtual desktop infrastructure (VDI)
	1. Cloud security controls
	High availability across zones
	Resource policies
	Secrets management
Civen e econoria	Integration and auditing
Given a scenario, apply cybersecurity	Storage Permissions
solutions to the cloud.	- Encryption
	- Replication
	- High availability
	Network
	- Virtual networks
	 Public and private subnets Segmentation

Торіс	Details
	- API inspection and integration
	 Compute Security groups Dynamic resource allocation Instance awareness Virtual private cloud (VPC) endpoint Container security Solutions
	CASB
	Application security
	 Next-generation secure web gateway (SWG)
	 Firewall considerations in a cloud environment - Cost
	 Need for segmentation Open Systems Interconnection (OSI) layers
	3. Cloud native controls vs. third-party solutions
Given a scenario, implement identity and account management controls.	 Identity Identity provider (IdP) Attributes Certificates Tokens SSH keys Smart cards Account types User account Shared and generic accounts/credentials Guest accounts Service accounts Account policies Password complexity Password reuse Network location Geofencing Geolocation Time-based logins

Торіс	Details
	 Account permissions Account audits Impossible travel time/risky login Lockout Disablement
Given a scenario, implement authentication and authorization solutions.	 Authentication management Password keys Password vaults TPM HSM Knowledge-based authentication Authentication/authorization EAP Challenge-Handshake Authentication Protocol (CHAP) Password Authentication Protocol (PAP) 802.1X RADIUS Single sign-on (SSO) Security Assertion Markup Language (SAML) Terminal Access Controller Access Control System Plus (TACACS+) OAuth OpenID Kerberos Access control schemes Attribute-based access control (ABAC) Role-based access control MAC Discretionary access control (DAC) Conditional access Privileged access management Filesystem permissions
Given a scenario, implement public key infrastructure.	 Public key infrastructure (PKI) Key management Certificate authority (CA)

Торіс	Details
	Intermediate CA
	Registration authority (RA)
	Certificate revocation list (CRL)
	Certificate attributes
	Online Certificate Status Protocol (OCSP)
	 Certificate signing request (CSR)
	• CN
	Subject alternative name
	Expiration
	2. Types of certificates
	Wildcard
	Subject alternative name
	Code signing
	Self-signed
	Machine/computer
	Email
	• User
	Root
	Domain validation
	Extended validation
	3. Certificate formats
	 Distinguished encoding rules (DER)
	Privacy enhanced mail (PEM)
	 Personal information exchange (PFX)
	• .cer
	• P12
	• P7B
	4. Concepts
	Online vs. offline CA
	Stapling
	Pinning
	Trust model
	Key escrow
	Certificate chaining
Oper	ations and Incident Response - 16%
Given a scenario, use	1. Network reconnaissance and discovery
the appropriate tool to	tracert/traceroute

Торіс	Details
assess organizational	 nslookup/dig
security.	 ipconfig/ifconfig
	• nmap
	 ping/pathping
	hping
	netstat
	netcat
	IP scanners
	• arp
	route
	• curl
	theHarvester
	 sn1per
	 scanless
	dnsenum
	Nessus
	Cuckoo
	2. File manipulation
	• head
	• tail
	• cat
	• grep
	chmod
	logger
	3. Shell and script environments
	• SSH
	PowerShell
	Python
	OpenSSL
	4. Packet capture and replay
	 Tcpreplay
	Tcpdump
	Wireshark
	5. Forensics
	• dd
	Memdump
	WinHex

Торіс	Details
Summarize the importance of policies, processes, and procedures for incident response.	 FTK imager Autopsy Exploitation frameworks 7. Password crackers 8. Data sanitization 1. Incident response plans 2. Incident response process Preparation Identification Containment Eradication Recovery Lessons learned 3. Exercises Tabletop
Given an incident, utilize appropriate data sources to support an investigation.	 Vulnerability scan output SIEM dashboards Sensor Sensitivity Trends Alerts Correlation Log files Network System

Торіс	Details
	 Application Security Web DNS Authentication Dump files VoIP and call managers Session Initiation Protocol (SIP) traffic 4. syslog/rsyslog/syslog-ng 5. journalctl NXLog 7. Bandwidth monitors 8. Metadata Email Mobile Web File 9. Netflow/sFlow Netflow SFlow IPFIX
Given an incident, apply mitigation techniques or controls to secure an environment.	 10. Protocol analyzer output 1. Reconfigure endpoint security solutions Application approved list Application blocklist/deny list Quarantine 2. Configuration changes Firewall rules MDM DLP Content filter/URL filter Update or revoke certificates 3. Isolation Containment Segmentation SOAR Runbooks Playbooks

Торіс	Details
Explain the key aspects of digital forensics.	1. Documentation/evidence • Legal hold • Video • Admissibility • Chain of custody • Timelines of sequence of events • Tags • Reports • Event logs • Interviews 2. Acquisition • Order of volatility • Disk • Random-access memory (RAM) • Swap/pagefile • OS • Device • Firmware • Snapshot • Cache • Network • Artifacts 3. On-premises vs. cloud • Right-to-audit clauses • Regulatory/jurisdiction • Data breach notification laws 4. Integrity • Hashing • Checksums • Provenance 5. Preservation 6. E-discovery 7. Data recovery 8. Non-repudiation 9. Strategic intelligence/ counterintelligence
Gove	ernance, Risk, and Compliance - 14%
Compare and contrast various types of	1. Category

Торіс	Details
controls.	 Managerial Operational Technical 2. Control type Preventive Detective Corrective Deterrent Compensating Physical
Explain the importance of applicable regulations, standards, or frameworks that impact organizational security posture.	 Regulations, standards, and legislation General Data Protection Regulation (GDPR) National, territory, or state laws Payment Card Industry Data Security Standard (PCI DSS) Key frameworks Center for Internet Security (CIS) National Institute of Standards and Technology (NIST) Risk Management Framework (RMF)/ Cybersecurity Framework (CSF) International Organization for Standardization (ISO) 27001/27002/27701/31000 SSAE SOC 2 Type I/II Cloud security alliance Cloud control matrix Reference architecture Benchmarks /secure configuration guides Platform/vendor-specific guides Web server OS Application server Network infrastructure devices
Explain the importance of policies to organizational security.	 Personnel Acceptable use policy Job rotation Mandatory vacation Separation of duties Least privilege

Торіс	Details
	Clean desk space
	Background checks
	 Non-disclosure agreement (NDA)
	Social media analysis
	Onboarding
	Offboarding
	User training
	- Gamification
	- Capture the flag - Phishing campaigns
	- Phishing simulations
	- Computer-based training (CBT)
	- Role-based training
	2. Diversity of training techniques
	3. Third-party risk management
	Vendors
	Supply chain
	Business partners
	Service level agreement (SLA)
	Memorandum of understanding (MOU)
	Measurement systems analysis (MSA)
	Business partnership agreement (BPA)
	End of life (EOL)
	End of service life (EOSL)
	NDA Data
	4. Data
	Classification
	GovernanceRetention
	5. Credential policies
	Personnel
	Third-party
	Devices
	Service accounts
	Administrator/root accounts
	6. Organizational policies
	Change management
	Change control
	Asset management

Торіс	Details
	1. Risk types
	External
	Internal
	Legacy systems
	Multiparty
	IP theft
	Software compliance/licensing
	2. Risk management strategies
	Acceptance
	Avoidance
	Transference
	- Cybersecurity insurance
	Mitigation
	3. Risk analysis
	Risk register
	Risk matrix/heat map
	Risk control assessment
Summarize risk	Risk control self-assessment
management	Risk awareness
processes and	Inherent risk
concepts.	Residual risk
	Control risk
	Risk appetite
	Regulations that affect risk posture
	Risk assessment types
	- Qualitative - Quantitative
	Likelihood of occurrence
	 Impact
	Asset value
	 Single-loss expectancy (SLE)
	 Annualized loss expectancy (ALE)
	 Annualized rate of occurrence (ARO)
	4. Disasters
	Environmental
	Person-made
	 Internal vs. external
	5. Business impact analysis

Торіс	Details
	Recovery time objective (RTO)
	Recovery point objective (RPO)
	Mean time to repair (MTTR)
	 Mean time between failures (MTBF)
	 Functional recovery plans
	Single point of failure
	 Disaster recovery plan (DRP)
	Mission essential functions
	 Identification of critical systems
	Site risk assessment
	 Organizational consequences of privacy and data breaches
	Reputation damage
	Identity theft
	Fines
	IP theft
	2. Notifications of breaches
	Escalation
	 Public notifications and disclosures
	3. Data types
	Classifications
Evalain privoov and	- Public
Explain privacy and sensitive data	- Private - Sensitive
concepts in relation to	- Confidential
security.	- Critical
	- Proprietary
	 Personally identifiable information (PII)
	Health information
	Financial information
	Government data
	Customer data
	4. Privacy enhancing technologies
	Data minimization
	Data masking
	Tokenization
	Anonymization
	Pseudo-anonymization

Торіс	Details
	5. Roles and responsibilities
	Data owners
	Data controller
	Data processor
	Data custodian/steward
	Data protection officer (DPO)
	6. Information life cycle
	7. Impact assessment
	8. Terms of agreement
	9. Privacy notice

Prepare with SY0-601 Sample Questions:

Question: 1

A security manager needed to protect a high-security datacenter, so the manager installed an access control vestibule that can detect an employee's heartbeat, weight, and badge. Which of the following did the security manager implement?

- a) A physical control
- b) A corrective control
- c) A compensating control
- d) A managerial control

Answer: a

Question: 2

IPv6 addresses consist of how many bits?

- a) 8
- b) 16
- c) 32
- d) 128

Answer: d

Question: 3

Botnets can be used to set what type of coordinated attack in motion?

- a) DDoS
- b) Cross-site scripting
- c) Privilege escalation
- d) Rootkit

Answer: a



Question: 4

What is the term given to a framework or model outlining the phases of attack to help security personnel defend their systems and respond to attacks?

- a) Command and control
- b) Intrusion kill chain
- c) Cyber-incident response
- d) CIRT

Answer: b

Question: 5

An organization has a policy in place that states the person who approves firewall controls/changes cannot be the one implementing the changes.

Which of the following describes this policy?

- a) Change management
- b) Job rotation
- c) Least privilege
- d) Separation of duties

Answer: d

Question: 6

Which of the following would be the BEST method to prevent the physical theft of staff laptops at an open-plan bank location with a high volume of customers each day?

- a) Guards at the door
- b) Visitor logs
- c) Cable locks
- d) Cameras

Answer: c

Question: 7

You have been asked to provide a virtualized environment. Which of the following makes it possible for many instances of an operating system to be run on the same machine?

- a) API
- b) Virtual machine
- c) Hypervisor
- d) Container

Answer: c



Question: 8

Joe, an employee, knows he is going to be fired in three days. Which of the following characterizations describes the employee?

- a) A competitor
- b) An insider threat
- c) A hacktivist
- d) A state actor

Answer: b

Question: 9

Which of the following disaster recovery sites would require the MOST time to get operations back online?

- a) Colocation
- b) Cold
- c) Hot
- d) Warm

Answer: b

Question: 10

The IT department receives a call one morning about users being unable to access files on the network shared drives. An IT technician investigates and determines the files became encrypted at 12:00 a.m.

While the files are being recovered from backups, one of the IT supervisors realizes the day is the birthday of a technician who was fired two months prior.

Which of the following describes what MOST likely occurred?

- a) The fired technician placed a logic bomb.
- b) The fired technician installed a rootkit on all the affected users' computers.
- c) The fired technician installed ransomware on the file server.
- d) The fired technician left a network worm on an old work computer.

Answer: a

Study Tips to Pass the CompTIA Security+ Exam:

Understand the SY0-601 Exam Format:

Before diving into your study routine, it's essential to familiarize yourself with the SY0-601 exam format. Take the time to review the <u>exam syllabus</u>, 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 SY0-601 Exam:

To effectively prepare for the SY0-601 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 SY0-601 exam topics comprehensively. Each resource offers unique insights and explanations that can enhance your learning experience.

Practice Regularly for the SY0-601 Exam:

Practice makes you perfect for the SY0-601 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 SY0-601 Exam Preparation:

Stay organized throughout your SY0-601 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 <u>material</u>.

Regular Revision Plays A vital Role for the SY0-601 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 SY0-601 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 SY0-601 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 SY0-601 exam. Visualize success, stay focused, and approach the exam calmly and confidently.

Benefits of Earning the SY0-601 Exam:

- Achieving the SY0-601 certification opens doors to new career opportunities and advancement within your field.
- The rigorous preparation required for the SY0-601 exam equips you with in-depth knowledge and practical skills relevant to your profession.
- Holding the SY0-601 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 SY0-601 certification validates your proficiency and credibility, instilling confidence in clients, employers, and colleagues.

Discover the Reliable Practice Test for the SY0-601 Certification:

EduSum.com brings you comprehensive information about the SY0-601 exam. We offer genuine practice tests tailored for the SY0-601 certification. What benefits do these practice tests offer? You'll encounter authentic examlike 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 SY0-601 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 Security+.

Concluding Thoughts:

Preparing for the SY0-601 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 SY0-601 Certification

EduSum.com offers comprehensive details about the SY0-601 exam. Our platform provides authentic practice tests designed for the SY0-601 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 SY0-601 practice tests. Through consistent practice, many candidates have found success and simplified their journey towards attaining the CompTIA Security+.

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