

COMPTIA SY0-601

CompTIA Security+ Certification Questions & Answers

Exam Summary – Syllabus –Questions

SY0-601 <u>CompTIA Security+</u> 90 Questions Exam – 750/900% Cut Score – Duration of 90 minutes



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Know Your SY0-601 Certification Well:

The SY0-601 is best suitable for candidates who want to gain knowledge in the CompTIA Core. Before you start your SY0-601 preparation you may struggle to get all the crucial Security+ materials like SY0-601 syllabus, sample questions, study guide.

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The PDF is a combination of all your queries like-

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- How many questions are there in the SY0-601 exam?
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Passing the SY0-601 exam makes you CompTIA Security+. Having the Security+ certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

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Exam Name	CompTIA Security+
Exam Code	SY0-601
Exam Price	\$349 (USD)
Duration	90 mins
Number of Questions	90
Passing Score	750 / 900
Schedule Exam	<u>CompTIA Marketplace</u> <u>Pearson VUE</u>
Sample Questions	CompTIA Security + Sample Questions
Practice Exam	CompTIA SY0-601 Certification Practice Exam

SY0-601 Syllabus:

Торіс	Details
Threa	ts, Attacks, and Vulnerabilities - 24%
Compare and contrast different types of social engineering techniques.	 Phishing Smishing Vishing Vishing Spam over instant messaging (SPIM) Spear phishing Dumpster diving Shoulder surfing Pharming Tailgating Eliciting information Whaling Prepending Identity fraud Invoice scams Credential harvesting Reconnaissance Hoax Impersonation Watering hole attack Typosquatting Pretexting Influence campaigns Hybrid warfare Social media Principles (reasons for effectiveness) Authority Intimidation Consensus Scarcity Familiarity Trust Urgency



Торіс	Details
	1. Malware
Given a scenario, analyze potential indicators to determine	
	 Card cloning Skimming Adversarial artificial intelligence (AI) Tainted training data for machine learning (ML) Security of machine learning algorithms Supply-chain attacks Cloud-based vs. on-premises attacks Cryptographic attacks





Торіс	Details
Given a scenario,	1. Wireless
analyze potential	
indicators associated	Evil twin
with network attacks.	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
	4. Domain name system (DNS)
	Domain hijacking
	DNS poisoning
	Uniform Resource Locator (URL) redirection
	Domain reputation
	5. Distributed denial-of-service (DDoS)
	Network
	Application
	Operational technology (OT)
	6. Malicious code or script execution
	PowerShell
	• <u>Python</u>
	• Bash
	Macros
	Visual Basic for Applications (VBA)
Explain different threat	1. Actors and threats
actors, vectors, and	
intelligence sources.	Advanced persistent threat (APT)



Торіс	Details
	Insider threats
	State actors
	Hacktivists
	Script kiddies
	<u>Criminal</u> syndicates
	 Hackers Authorized Unauthorized Semi-authorized Shadow IT Competitors
	2. Attributes of actors
	 Internal/external Level of sophistication/capability Resources/funding Intent/motivation 3. Vectors
	 Direct access Wireless 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
Explain the security	Open ports and services Third methods
concerns associated with various types of	4. Third-party risks
vulnerabilities.	 Vendor management System integration Lack of vendor support Supply chain
	Outsourced code development
	Data storage
	5. Improper or weak patch management
	FirmwareOperating system (OS)
	Applications



Торіс	Details
	6. Legacy platforms 7. Impacts
	 Data loss Data breaches Data exfiltration Identity theft Financial Reputation Availability loss 1. Threat hunting Intelligence fusion
	 Threat feeds Advisories and bulletins Maneuver 2. Vulnerability scans
Summarize the techniques used in security assessments.	 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 Sentiment analysis Security monitoring Log aggregation



Торіс	Details
-	Log collectors
	4. Security orchestration, automation, and response (SOAR)
Explain the techniques used in penetration testing.	 Penetration testing Known environment Unknown environment Partially known environment Rules of engagement Lateral movement Privilege escalation Persistence Cleanup Bug bounty Pivoting Passive and active reconnaissance Drones War flying War driving Footprinting OSINT Exercise types Red-team White-team Purple-team
	Architecture and Design - 21%
Explain the importance of security concepts in an enterprise environment.	 Configuration management Diagrams Baseline configuration Standard naming conventions Internet protocol (IP) schema Data sovereignty Data protection



Торіс	Details
	Data loss prevention (DLP)
	Masking
	Encryption
	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 Security (TLS) inspection 7. Hashing 8. API considerations 9. Site resiliency
	Hot site
	Cold site
	Warm site
	10. Deception and disruption
	Honeypots
	Honeyfiles
	Honeynets
	Fake telemetry
	DNS sinkhole
	1. Cloud models
	 Infrastructure as a service (IaaS) Platform as a service (PaaS) Software as a service (SaaS)
Summarize virtualization	 Anything as a service (XaaS)
and cloud computing	 Public
concepts.	Community
	Private
	Hybrid
	 Cloud service providers Managed service provider (MSP)/managed security service provider (MSSP)



Торіс	Details
	 4. On-premises vs. off-premises 5. Fog computing 6. Edge computing 7. Thin client 8. Containers 9. Microservices/API 10. Infrastructure as code
	 Software-defined networking (SDN) Software-defined visibility (SDV) 11. Serverless architecture Services integration Resource policies Transit gateway Virtualization Virtual machine (VM) sprawl avoidance
	 VM escape protection
	 Environment Development Test Staging Production Quality assurance (QA)
Summarize secure application development, deployment, and automation concepts.	 2. Provisioning and deprovisioning 3. Integrity measurement 4. 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 5. Open Web Application Security Project (OWASP) 6. Software diversity



Торіс	Details
	Compiler
	Binary
	7. Automation/scripting
	 Automated courses of action Continuous monitoring Continuous validation Continuous integration Continuous delivery Continuous deployment 8. Elasticity 9. Scalability 10. Version control
	1. Authentication methods
Summarize authentication and authorization design concepts.	 Directory services Federation Attestation 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
	 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 Something you can do Something you exhibit Someone you know
 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
 Factors Something you know Something you have Something you are Attributes Somewhere you are Something you can do Something you exhibit Someone you know
 Something you know Something you have Something you are Attributes Somewhere you are Something you can do Something you exhibit Someone you know
- Someone you know
 Authentication, authorization and accounting (AAA) Cloud vs. on-premises requirements
. Redundancy
 Geographic dispersal Disk Redundant array of inexpensive disks (RAID) levels Multipath Network Load balancers Network interface card (NIC) teaming Power Uninterruptible power supply (UPS) Generator Dual supply Managed power distribution units (PDUs) Replication
 Storage area network VM On-premises vs. cloud Backup types Full Incremental Snapshot Differential Tape



Торіс	Details
-	• 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 <u>order</u> 8. Diversity
	Technologies
	Vendors
	• Crypto
	Controls
	1. Embedded systems
	Raspberry Pi
	 Field-programmable gate array (FPGA)
	Arduino
	2. Supervisory control and data acquisition (SCADA)/industrial
Explain the security	control system (ICS)
implications of	Facilities
embedded and	Industrial
specialized systems.	Manufacturing
	 Energy
	Logistics
	3. Internet of Things (IoT)
	S. Internet of Things (101)
	Sensors



Торіс	Details
	Smart devices
	Wearables
	Facility automation
	Weak defaults
	4. Specialized
	 Medical systems Vehicles Aircraft Smart meters 5. Voice over IP (VoIP) 6. Heating, ventilation, air conditioning (HVAC) 7. Drones
	 8. Multifunction <u>printer</u> (MFP) 9. Real-time operating system (RTOS) 10. Surveillance systems 11. System on chip (SoC) 12. Communication considerations
	 5G Narrow-<u>band</u> Baseband radio Subscriber identity module (SIM) cards Zigbee 13. Constraints
	 Power 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



Торіс	Details
	5. Signage
	6. Cameras
	Motion recognition
	Object detection
	7. Closed-circuit television (CCTV) 8. Industrial camouflage 9. Personnel
	 Guards Robot sentries Reception Two-person integrity/control
	10. Locks
	 Biometrics Electronic Physical Cable locks 10. USB data blocker 11. Lighting 12. Fencing 13. Fire suppression 14. Sensors
	 Motion detection Noise detection Proximity reader Moisture detection Cards Temperature
	 15. Drones 16. Visitor logs 17. Faraday cages 18. Air gap 19. Screened subnet (previously known as demilitarized zone) 20. Protected cable distribution 21. Secure areas
	Air gapVault



Торіс	Details
	• Safe
	Hot aisle
	Cold aisle
	22. 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
	Communications
	Computing
Summarize the basics of cryptographic concepts.	10. Post-quantum 11. Ephemeral 12. Modes of operation
	Authenticated
	Unauthenticated
	Counter
	13. Blockchain
	Public ledgers
	14. Cipher suites
	<u>Stream</u>Block



Торіс	Details
	15. Symmetric vs. asymmetric 16. Lightweight cryptography 17. Steganography
	 Audio 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 Computational overheads Resource vs. security constraints
	Implementation - 25%
Given a scenario, implement secure protocols.	 Domain Name System Security Extensions (DNSSEC) SSH 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
	 <u>Post Office</u> 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
Given a scenario, implement host or application security solutions.	 Antivirus Anti-malware Endpoint detection and response (EDR) 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)



Торіс	Details
	Measured boot
	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 Registry Disk encryption OS Patch management Third-party updates Auto-update
	6. Self-encrypting drive (SED)/full-disk encryption (FDE)
	 Opal 7. Hardware root of trust 8. Trusted Platform Module (TPM) 9. Sandboxing
Given a scenario, implement secure network designs.	 Load balancing Active/active Active/passive



Торіс	Details
	Scheduling
	Virtual IP
	Persistence
	2. Network segmentation
	Virtual local area network (VLAN)
	 Screened subnet (previously known as demilitarized zone)
	East-west traffic
	• Extranet
	• Intranet
	Zero Trust
	3. 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
	6. Out-of- <u>band</u> management
	7. 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



Торіс	Details
	 Network-based intrusion detection system (NIDS)/network-based intrusion prevention system (NIPS) Signature-based Heuristic/behavior Anomaly Inline vs. passive
	• HSM
	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



Торіс	Details
	EAP-TLS
	EAP-TTLS
	• IEEE 802.1X
	 Remote Authentication Dial-in User Service (RADIUS) Federation
	3. Methods
	Pre-shared key (PSK) vs. Enterprise vs. OpenWiFi Protected Setup (WPS)
	 Captive portals
	4. Installation considerations
	4. Installation considerations
	Site surveys
	Heat maps
	WiFi analyzers
	Channel overlaps
	Wireless access point (WAP) placement
	Controller and access point security
	 Connection methods and receivers Cellular
	• WiFi
	Bluetooth
	NFC
	Infrared
	• USB
	Point-to-point
Given a scenario,	Point-to-multipoint
implement secure <u>mobile</u> solutions	Global Positioning System (GPS)
Secure <u>mobile</u> solutions	RFID
	2. <u>Mobile</u> device management (MDM)
	Application management
	Content management
	Remote wipe
	Geofencing
	Geolocation
	Screen locks



Торіс	Details
	Push notifications
	Passwords and PINs
	Biometrics
	Context-aware authentication
	Containerization
	Storage segmentation
	Full device encryption
	3. <u>Mobile</u> devices
	MicroSD hardware security module (HSM)
	 MDM/Unified Endpoint Management (UEM)
	<u>Mobile</u> application management (MAM)
	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



Торіс	Details
	Virtual desktop infrastructure (VDI)
	1. Cloud security controls
Given a scenario, apply cybersecurity solutions to the cloud.	 High availability across zones Resource policies Secrets management Integration and auditing Storage Permissions Encryption Replication High availability Network Virtual networks Public and private subnets Segmentation 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
	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



Торіс	Details
	2. Account types
	 User account Shared and generic accounts/credentials Guest accounts Service accounts 3. Account policies
	 Password complexity Password <u>history</u> Password reuse Network location Geofencing Geotagging Geolocation Time-based logins Access policies 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)



Торіс	Details
	 Terminal Access Controller Access Control System Plus (TACACS+) OAuth OpenID Kerberos Access control schemes Attribute-based access control (ABAC) Role-based access control Rule-based access control MAC
	Discretionary access control (DAC)
	Conditional access Privileged access management
	 Privileged access management Filesystem permissions
Given a scenario, implement public key infrastructure.	 Public key infrastructure (PKI) Key management Certificate authority (CA) 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 Types of certificates
	 Wildcard Subject alternative name Code signing Self-signed Machine/computer Email User Root



Торіс	Details
	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
Opera	ations and Incident Response - 16%
Given a scenario, use the appropriate tool to assess organizational security.	 Network reconnaissance and discovery tracert/traceroute nslookup/dig ipconfig/ifconfig nmap ping/pathping hping netstat netcat IP scanners arp route curl theHarvester sn1per scanless



Торіс	Details
	• dnsenum
	Nessus
	• Cuckoo
	2. File manipulation
	 head tail <u>cat</u> grep chmod logger 3. Shell and script environments
	 SSH PowerShell <u>Python</u> OpenSSL 4. Packet capture and replay
	 Tcpreplay Tcpdump Wireshark 5. Forensics
	 dd Memdump WinHex FTK imager Autopsy 6. Exploitation frameworks 7. Password crackers 8. Data sanitization
Summarize the importance of policies, processes, and procedures for incident response.	 Incident response plans Incident response process Preparation Identification Containment



Торіс	Details
	Eradication
	Recovery
	Lessons learned
	3. Exercises
	Tabletop
	Walkthroughs
	Simulations
	4. Attack frameworks
	MITRE ATT&CK
	The Diamond Model of Intrusion Analysis
	Cyber Kill Chain
	5. Stakeholder management
	6. Communication plan
	7. Disaster recovery plan
	8. Business continuity plan
	9. Continuity of operations planning (COOP)
	10. Incident response team
	11. Retention policies
	1. Vulnerability scan output
	2. SIEM dashboards
	Sensor
	Sensitivity
	Trends
	Alerts
	Correlation
Given an incident, utilize	
appropriate data	5. Log mes
sources to support an	Network
investigation.	System
	Application
	Security
	• Web
	• DNS
	Authentication
	Dump files
	 VoIP and call managers



Торіс	Details
	Session Initiation Protocol (SIP) traffic
	4. syslog/rsyslog/syslog-ng 5. journalctl 6. NXLog 7. Bandwidth monitors 8. Metadata
	 Email <u>Mobile</u> Web File 9. Netflow/sFlow
	 Netflow sFlow IPFIX 10. Protocol analyzer output
	 Reconfigure endpoint security solutions Application approved list Application blocklist/deny list Quarantine Configuration changes
Given an incident, apply mitigation techniques or controls to secure an environment.	 Firewall rules MDM DLP Content filter/URL filter Update or revoke certificates
	 3. Isolation 4. Containment 5. Segmentation 6. SOAR • Runbooks
	 Playbooks
Explain the key aspects	1. Documentation/evidence
of digital forensics.	• Legal hold



Торіс	Details
	Video
	Admissibility
	Chain of custody
	 Timelines of sequence of events Time stamps Time offset
	• Tags
	Reports
	Event logs
	Interviews
	2. Acquisition
	 <u>Order</u> 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



Торіс	Details
Gove	mance, Risk, and Compliance - 14%
	1. Category
	ManagerialOperationalTechnical
Compare and contrast	2. Control type
various types of controls.	 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 Clean desk space Background checks Non-disclosure agreement (NDA) Social media analysis Onboarding Offboarding User training
3. 1	 Gamification Capture the flag Phishing campaigns Phishing simulations Computer-based training (CBT) Role-based training Diversity of training techniques 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
4.	. Data



Торіс	Details
	5. Credential policies
	 Personnel Third-party Devices Service accounts Administrator/root accounts 6. Organizational policies Change management
	Change control Asset management
	Asset management I. Risk types
Summarize risk management processes and concepts.	 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 Risk control self-assessment Risk awareness Inherent risk Residual risk Control risk Risk appetite



Торіс	Details
•	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
	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
	1. Organizational consequences of privacy and data breaches
	Reputation damage
	Identity theft
	Fines
Explain privacy and	IP theft
sensitive data concepts in relation to security.	
	2. Notifications of breaches
	Escalation
	Public notifications and disclosures
	3. Data types



Торіс	Details
	 Classifications Public Private Sensitive Confidential Critical Proprietary Personally identifiable information (PII) <u>Health</u> information Financial information Government data Customer data
	4. Privacy enhancing technologies
	 Data minimization Data masking Tokenization Anonymization Pseudo-anonymization 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

CompTIA SY0-601 Sample Questions:

Question: 1

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: 2

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

Question: 3

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) Cable locks
- c) Visitor logs
- d) Cameras

Answer: b



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

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

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

Answer: a

Question: 6

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) Separation of duties
- d) Least privilege

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

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: 9

A Chief Financial Officer (CFO) has been receiving email messages that have suspicious links embedded from unrecognized senders.

The emails ask the recipient for identity verification. The IT department has not received reports of this happening to anyone else.

Which of the following is the MOST likely explanation for this behavior?

- a) The CFO is the target of a whaling attack.
- b) The CFO is the target of identity fraud.
- c) The CFO is receiving spam that got past the mail filters.
- d) The CFO is experiencing an impersonation attack.

Answer: a



Question: 10

Why do vendors provide MD5 values for their software patches?

- a) To provide the necessary key for patch activation
- b) To allow the downloader to verify the authenticity of the site providing the patch
- c) To ensure that auto-updates are enabled for subsequent patch releases
- d) To allow the recipient to verify the integrity of the patch prior to installation

Answer: d

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