

Preparing for the CompTIA Security+™ Certification Exam - 5 dagar

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- You Will Learn How To**
- Successfully prepare for the CompTIA Security+ Certification Exam
 - Confidently explain and define an array of security terminologies
 - Navigate the complexity of secure communication protection
 - Explore the concepts of network protection with firewalls and IDS
 - Investigate privacy and integrity issues such as cryptography, PKI and digital signatures
 - Assess organisational compliance procedures and access controls that bolster your security foundation
- Course Benefits** The CompTIA Security+ Certification is considered one of the leading vendor-neutral security certifications and is a cornerstone to the U.S. Department of Defense 8570.1 initiative. This exam preparation course provides in-depth review of the six domains included in the exam. Demonstrations and practice quizzes reinforce the concepts and provide the framework for a personalised study plan for exam success.
- Who Should Attend** Security professionals, government and military personnel seeking IAT-2 or IAM-1 certification to fulfill the 8570.1 Directive, network security personnel and managers with previous technical skills or background.
- Workshop Course** Workshops provide you with practical experience to prepare for the CompTIA Security+ Exam, including:
- Practicing exams daily for the six domains
 - Analysing protocols and security issues with Wireshark
 - Employing an IDS to detect and deflect attacks
 - Protecting communication with encryption and digital signatures
 - Validating certificates using public keys
 - Scanning for vulnerabilities with a vulnerability scanner

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Introduction to the CompTIA Security+ Exam

- Examination and certification goals
- The six domains of knowledge
- Expected level of expertise
- Assessing initial readiness

Securing the Network

Communication security goals

- Evaluating network design and components
- Examining ports, protocols and threats
- Implementing wireless security

Secure administration principles

- Designing for security
- Managing VLANs and firewall rules
- Implementing port security
- Leveraging flood guards

Compliance and Operational Security

Risk-related concepts

- Inspecting methods of control
- Conducting risk reduction
- Formulating risk models
- Evaluating risk

Mitigation strategies

- Deterrence, avoidance and transference
- Incident response
- Preparing security awareness training

Business continuity measures

- Assessing environmental controls
- Planning for disaster recovery
- Analysing continuity of business plans
- Implementing high-availability

Access Controls

Infrastructure principles

- Assessing MAC, DAC and RBAC
- Comparing logical and physical access controls

Strengthening the infrastructure

- Utilising authentication systems
- Implementing multifactor authentication
- Kerberos and CHAP

Threats and Vulnerabilities

Identifying vulnerabilities and threats

- Isolating botnets, viruses and worms
- Preventing man-in-the-middle attacks
- Stopping social engineering ploys
- Malicious insiders
- Spamming, phishing and vishing

Application attacks

- Detecting buffer overflows
- Rejecting injection attacks
- Preventing cookie misuse
- Halting cross-site scripting (XSS)

Application, Data and Host Security

Security assessment tools

- Fuzzers
- Patch management
- Application hardening

Host security tools and techniques

- Anti-malware
- Physical security
- Mobile devices

Fundamentals of Cryptography

Assuring privacy with encryption

- The CIA model and beyond
- Cryptographic standards and protocols
- Deploying symmetric encryption
- Implementing Public Key cryptography

Establishing cryptographic security

- Performing digital signatures
- Exploring the role of certificate authorities
- Managing keys and the CRL
- Analysing X.509 certificates

Final Review

Preparing for the examination

- Priming for the exam
- Narrowing the choices
- Handling out-of-date questions
- Utilising additional study guides

Assessing readiness

- Final review and assessment
- Taking a complete practice exam