

CompTIA Security+

COURSE OVERVIEW

CompTIA Security+ is the primary course you will need to take if your job responsibilities include securing network services, devices, and traffic and your organization as a whole including the physical security elements and operational security measures. It is also the main course you will take to prepare for the CompTIA Security+ Certification examination. In this course, you will build on your knowledge and professional experience with security fundamentals, networks, and organizational security as you acquire the specific skills required to implement basic security services on any type of computer network.

This course can benefit you in two ways. If you intend to pass the CompTIA Security+ (Exam SY0-501) Certification examination, this course can be a significant part of your preparation. But certification is not the only key to professional success in the field of computer security. Today's job market demands individuals with demonstrable skills, and the information and activities in this course can help you build your computer security skill set so that you can confidently perform your duties in any security-related professional role.

WHO WILL BENEFIT FROM THIS COURSE?

This course is targeted toward the information technology (IT) professional who has networking and administrative skills in Windows®-based Transmission Control Protocol/Internet Protocol (TCP/IP) networks and familiarity with other operating systems, such as Mac OS® X, Unix, or Linux, and who wants to further a career in IT by acquiring a foundational knowledge of security topics; prepare for the CompTIA Security+ Certification examination; or use Security+ as the foundation for advanced security certifications or career roles.

PREREQUISITES

CompTIA A+ and Network+ certifications, or equivalent knowledge / experience.

COURSE OBJECTIVES

- Prepare for the CompTIA Security+ Certification examination
- Build on your knowledge and professional experience with security fundamentals, networks, and organizational security
- Implement basic security services on any type of computer network

COURSE OUTLINE

Lesson 1: Security Fundamentals

- The Information Security Cycle
- Information Security Controls
- Authentication Methods
- Cryptography Fundamentals
- Security Policy Fundamentals



Lesson 2: Security Threats and Vulnerabilities

- Social Engineering
- Physical Threats and Vulnerabilities
- Network-Based Threats
- Wireless Threats and Vulnerabilities
- Software-Based Threats

Lesson 3: Network Security

- Network Devices and Technologies
- Network Design Elements and Components
- Implement Networking Protocols
- Apply Network Security Administration Principles
- Secure Wireless Traffic

Lesson 4: Managing Application, Data, and Host Security

- Establish Device/Host Security
- Application Security
- Data Security
- Mobile Security

Lesson 5: Access Control, Authentication, and Account Management

- Access Control and Authentication Services
- Implement Account Management Security Controls

Lesson 6: Managing Certificates

- Install a CA Hierarchy
- Enroll Certificates
- Secure Network Traffic by Using Certificates
- Renew Certificates
- Revoke Certificates
- Back Up and Restore Certificates and Private Keys

Lesson 7: Compliance and Operational Security

- Physical Security
- Legal Compliance
- Security Awareness and Training

Lesson 8: Risk Management

- Risk Analysis
- Implement Vulnerability Assessment Tools and Techniques
- Scan for Vulnerabilities
- Mitigation and Deterrent Techniques

Lesson 9: Managing Security Incidents

- Respond to Security Incidents
- Recover from a Security Incident

Lesson 10: Business Continuity and Disaster Recovery Planning

- Business Continuity
- Plan for Disaster Recovery
- Execute DRPs and Procedures



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