

CompTIA Security+ (SY0-601)

Introduction

The Official CompTIA® Security+® (Exam SY0-601) course is the primary curriculum you will need to take if your job responsibilities include securing network services, devices, and traffic in your organization. You can also take this course to prepare for the CompTIA Security+ certification examination. In this course, you will build on your knowledge of 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.

Target Audience

This course is designed for individuals who are considering a career in information technology (IT) and who might be planning CompTIA Security +™ certification, or other similar certifications.

Prerequisites

This course assumes that you have basic knowledge of using and configuring individual workstations and simple networks. Knowledge equivalent to the CompTIA A+ and Network+ certifications is helpful but not necessary.

Course Content

Introduction

Course setup

Chapter 1: Security fundamentals

Module A: Security concepts

Module B: Enterprise security strategy

Module C: Security program components

Chapter 2: Risk management

Module A: Understanding threats

Module B: Risk management programs

Module C: Security assessments

Chapter 3: Cryptography

Module A: Cryptography concepts

Module B: Public key infrastructure

Chapter 4: Network connectivity

Module A: Network attacks

Module B: Packet flow

Chapter 5: Network security technologies

Module A: Network security components

Module B: Monitoring tools

Chapter 6: Secure network configuration

Module A: Secure network protocols

Module B: Hardening networks

Chapter 7: Authentication

Module A: Authentication factors

Module B: Authentication protocols

Chapter 8: Access control

Module A: Access control principles

Module B: Account management

Chapter 9: Securing hosts and data

Module A: Malware

Module B: Securing data

Module C: Securing hosts

Chapter 10: Securing specialized systems

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Module B: Embedded and specialized systems

Chapter 11: Application security

Module A: Application attacks

Module B: Securing applications

Chapter 12: Cloud security

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Module B: Securing cloud services

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Module B: Security policies

Module C: User roles and training

Module D: Physical security and safety

Chapter 14: Disaster planning and recovery

Module A: Business continuity

Module B: Resilient systems

Module C: Incident response procedures



Tel: 876-802-0144 Email: info@vantagepointitc.com Website: www.vantagepointitc.com

Appendix A: Glossary