uCertify

CompTIA Security+ (SY0-601)

Lesson Practice test Live-Lab

01 Sep 2023

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   2 Today's Security Professional

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   17 Security Policies, Standards, and Compliance

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Gain hands-on experience to pass the CompTIA Security+ certification exam with the CompTIA Security+ (SY0-601) course and lab. Interactive chapters and hands-on labs comprehensively cover the SY0-601 exam objectives and provide knowledge in areas such as security concepts, operating systems, application systems, and many more. The CompTIA Security+ study guide will help you get a full understanding of the challenges you'll face as a security professional.

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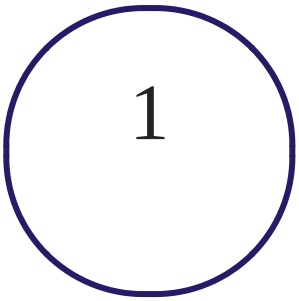

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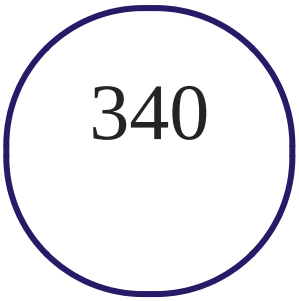

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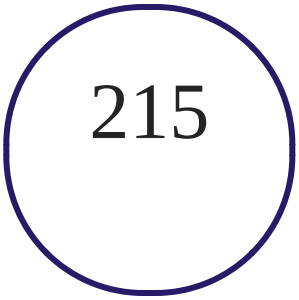

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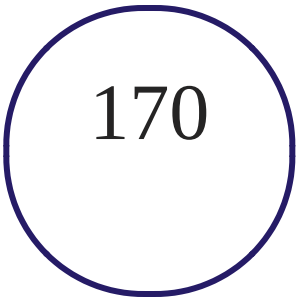

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1: Introduction

- The Security+ Exam
- What Does This Course Cover?
- Exam SY0-601 Exam Objectives

- Malicious Code
- Adversarial Artificial Intelligence
- Summary
- Exam Essentials

5: Social Engineering, Physical, and Password Attacks

- Social Engineering
- Password Attacks
- Physical Attacks
- Summary
- Exam Essentials

6: Security Assessment and Testing

- Vulnerability Management
- Security Vulnerabilities
- Penetration Testing
- Training and Exercises
- Summary

- Exam Essentials

7: Secure Coding

- Software Assurance Best Practices
- Designing and Coding for Security
- Software Security Testing
- Injection Vulnerabilities
- Exploiting Authentication Vulnerabilities
- Exploiting Authorization Vulnerabilities
- Exploiting Web Application Vulnerabilities
- Application Security Controls
- Secure Coding Practices
- Summary
- Exam Essentials

8: Cryptography and the Public Key Infrastructure

- An Overview of Cryptography
- Goals of Cryptography

- Cryptographic Concepts
- Modern Cryptography
- Symmetric Cryptography
- Asymmetric Cryptography
- Hash Functions
- Digital Signatures
- Public Key Infrastructure
- Asymmetric Key Management
- Cryptographic Attacks
- Emerging Issues in Cryptography
- Summary
- Exam Essentials

9: Identity and Access Management

- Identity
- Authentication and Authorization
- Authentication Methods
- Accounts

- Access Control Schemes
- Summary
- Exam Essentials

10: Resilience and Physical Security

- Building Cybersecurity Resilience
- Response and Recovery Controls
- Physical Security Controls
- Summary
- Exam Essentials

11: Cloud and Virtualization Security

- Exploring the Cloud
- Virtualization
- Cloud Infrastructure Components
- Cloud Security Issues
- Cloud Security Controls
- Summary

- Exam Essentials

12: Endpoint Security

- Protecting Endpoints
- Service Hardening
- Operating System Hardening
- Securing Embedded and Specialized Systems
- Summary
- Exam Essentials

13: Network Security

- Designing Secure Networks
- Secure Protocols
- Attacking and Assessing Networks
- Network Reconnaissance and Discovery Tools and Techniques
- Summary
- Exam Essentials

14: Wireless and Mobile Security

- Building Secure Wireless Networks
- Managing Secure Mobile Devices
- Summary
- Exam Essentials

15: Incident Response

- Incident Response
- Incident Response Data and Tools
- Mitigation and Recovery
- Summary
- Exam Essentials

16: Digital Forensics

- Digital Forensic Concepts
- Conducting Digital Forensics
- Reporting
- Digital Forensics and Intelligence

- Summary
- Exam Essentials

17: Security Policies, Standards, and Compliance

- Understanding Policy Documents
- Personnel Management
- Third-Party Risk Management
- Complying with Laws and Regulations
- Adopting Standard Frameworks
- Security Control Verification and Quality Control
- Summary
- Exam Essentials

18: Risk Management and Privacy

- Analyzing Risk
- Managing Risk
- Risk Analysis
- Disaster Recovery Planning

- Privacy
- Summary
- Exam Essentials

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VIDEOS	HOURS

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PRE-ASSESSMENTS QUESTIONS	FULL LENGTH TESTS	POST-ASSESSMENTS QUESTIONS

13 Live Labs

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Malicious Code

- Identifying Virus Threats
- Detecting Rootkits

Social Engineering, Physical, and Password Attacks

- Using Social Engineering Techniques to Plan an Attack
- Cracking a Linux Password Using John the Ripper

Security Assessment and Testing

- Conducting Vulnerability Scanning Using Nessus

Secure Coding

- Exploiting a Website Using SQL Injection
- Conducting a Cross-Site Request Forgery Attack
- Attacking a Website Using XSS Injection
- Defending Against a Buffer Overflow Attack

Cryptography and the Public Key Infrastructure

- Performing Symmetric Encryption
- Examining Asymmetric Encryption
- Observing an SHA-Generated Hash Value
- Observing an MD5-Generated Hash Value
- Examining PKI Certificates
- Using Rainbow Tables to Crack Passwords

Identity and Access Management

- Examining Kerberos Settings

- Installing a RADIUS Server

Resilience and Physical Security

- Configuring RAID 5

Endpoint Security

- Using the chmod Command
- Examining File Manipulation Commands

Network Security

- Configuring a Standard ACL
- Implementing Port Security
- Configuring a BPDU Guard on a Switch Port
- Configuring VLANs
- Using Windows Firewall
- Performing ARP Poisoning
- Using the ifconfig Command
- Using the traceroute Command
- Capturing Packets Using Wireshark
- Performing Reconnaissance on a Network
- Using the theHarvester Tool to Gather Information about a Victim
- Using the hping Program
- Using Reconnaissance Tools

Incident Response

- Viewing Linux event logs
- Using Event Viewer
- Making Syslog Entries Readable

Digital Forensics

- Using FTK Imager

Security Policies, Standards, and Compliance

- Configuring a Password Policy

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LIVE LABS	VIDEO TUTORIALS	HOURS

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