



# CompTIA

## Security+ 01

Attacks, Threats, and  
Vulnerabilities

STUDY PLAN

## **MAALINKA 1AAD**

### **INFORMATION SECURITY ROLES**

1. Information Security
2. Cybersecurity Framework
3. Information Security Competencies
4. Information Security Roles and Responsibilities
5. Information Security Business Units
6. Questions 01: Security Roles and Security Controls

## **MAALINKA 2AAD**

### **SECURITY CONTROL AND FRAMEWORK TYPES**

1. Security Control Categories
2. Security Control Functional Types
3. NIST Cybersecurity Framework
4. ISO and Cloud Frameworks
5. Benchmarks and Secure Configuration Guides
6. Regulations, Standards, and Legislation

## **MAALINKA 3AAD**

### **THREAT ACTOR TYPES AND ATTACK VECTORS**

1. Vulnerability, Threat, and Risk
2. Attributes of Threat Actors
3. Hackers, Script Kiddies, and Hacktivists
4. State Actors and Advanced Persistent Threats
5. Criminal Syndicates and Competitors
6. Insider Threat Actors

7. Attack Surface and Vectors
8. Question 02: Threat Actors and Threat Intelligence

## **MAALINKA 4AAD**

### **THREAT INTELLIGENCE SOURCES**

1. Threat Research Sources
2. Threat Intelligence Providers
3. TTPs and Indicators of Compromise
4. Threat Data Feeds
5. Artificial Intelligence and Predictive Analysis

## **MAALINKA 5AAD**

### **BUILD CYBERSECURITY LAB**

1. Building Cybersecurity Lab
2. VMware Workstation Pro – Download, Install, and Configure
3. DC1 – Installing Windows Server 2016
4. DC1 – Installing DC and DNS
5. MS1 – Installing Windows Server 2016
6. DC1 – Install Certification Authority (CA)
7. MS1 – Installing and Configure DHCP
8. MS1 – Installing and Configure IIS Server
9. LP1 – Graphical User Interface of Kali Linux
10. LP1 – Kali Linux Terminal
11. LP1 – Basics Linux Commands
12. LX1 – Download and Install CentOS
13. PT1 – Download and Install Kali Linux
14. RT1-LOCAL, RT2-ISP, RT3-INT VMs – VyOS Linux

## **MAALINKA 6AAD**

### **NETWORK RECONNAISSANCE TOOLS**

1. Ipconfig, ping, and arp
2. Route and traceroute
3. Use nmap to discover hosts
4. Netstat and nslookup
5. Reconnaissance and Discovery Tools
6. Packet Capture and tcpdump
7. Packet Analysis and Wireshark
8. Packet Injection and Replay
9. Exploitation Frameworks

## **MAALINKA 7AAD**

### **GENERAL VULNERABILITY TYPES**

1. Software Vulnerabilities and Patch Management
2. Zero-day and Legacy Platform Vulnerabilities
3. Weak Host Configurations
4. Weak Network Configurations
5. Impacts from Vulnerabilities
6. Third-Party Risks

## **MAALINKA 8AAD**

### **VULNERABILITY SCANNING TECHNIQUES**

1. Security Assessment Frameworks
2. Vulnerability Scan Types

3. Common Vulnerabilities and Exposures
4. Intrusive versus Non-intrusive Scanning
5. Credentialed versus Non-credentialed Scanning
6. False Positives, False Negatives, and Log Review
7. Configuration Review
8. Threat Hunting

## **MAALINKA 9AAD**

### **PENETRATION TESTING CONCEPTS**

1. Penetration Testing
2. Rules of Engagement
3. Exercise Team Types
4. Passive and Active Reconnaissance
5. Pen Test Attack Life Cycle

## **MAALINKA 10AAD**

### **SOCIAL ENGINEERING TECHNIQUES**

1. Social Engineering
2. Social Engineering Principles
3. Impersonation and Trust
4. Dumpster Diving and Tailgating
5. Identity Fraud and Invoice Scams
6. Phishing, Whaling, and Vishing
7. Spam, Hoaxes, and Prepending
8. Pharming and Credential Harvesting
9. Influence Campaigns

## **MALWARE-BASED ATTACKS**

1. Malware Classification
2. Computer Viruses
3. Computer Worms and Fileless Malware
4. Spyware, Adware, and Keyloggers
5. Backdoors and Remote Access Trojans
6. Rootkits
7. Ransomware, Crypto-Malware, and Logic Bombs
8. Malware Indicators
9. Process Analysis