HCIA-Security

Duration: 5 Days

Prerequisites:

- Basic knowledge of TCP/IP
- Basic knowledge of Routing and Switching

Course Objectives:

On completion of this program, the participants will be able to:

- Understand the basic concepts of information security.
- Understand information security common specifications.
- Configure network devices Know some common security attacks.
- Understand the basic process of security operation and maintenance.
- Understanding of safety analysis methods and evidence collection methods.
- Understand basic firewall technology and configuration.
- Understand NAT technology.
- Understand firewall dual-system hot back principles.
- Know basic network instructions.
- Know the basic component of operating system.
- Understanding the common risks and defense methods of operating systems.
- Understand encryption principles.
- Understand encryption application and practice the related configurations.

Intended Audience:

- Security operation and maintenance personnel
- Those who hope to obtain HCIA-Security V3.0 certificate

Course Outlines:

1. Basic Network Concepts
   - TCP/IP Architecture Common Network Protocols
2. Information Security Standards and Specifications
   - Information Security Standards and Specifications
   - ISO 27001 ISMS
   - Graded Protection of Information Security
   - Other Standards
3. Common Network Devices
   - Basic Network Devices
   - Initial Device Login
4. Threat Defense and Information Security Development Trends
   - Security Threat Defense
   - Information Security Awareness
   - Information Security Development Trends
5. Common Information Security Threats
   - Current Situation of Information Security Threats
   - Threats to Network Security
   - Threats to Application Security
   - Threats to Data Transmission and Device Security
6. Basic Concepts of Information Security
   - Information and Information Security
   - Information Security Risks and Management

SECURITY OPERATION AND ANALYSIS

1. Cyber Security Emergency Response
   - Background of Cyber Security Emergency Response
   - Overview of Cyber Security Emergency Response
   - Process of Cyber Security Emergency Response
2. Introduction to Security Operations
   - Concept of Security Operations
   - Basic Requirements for Security Operations
   - Content of Security Operations
3. Data Monitoring and Analysis
   - Proactive Analysis
   - Passive Collection
   - Data Analysis

4. Digital Forensics
   - Cyber crime
   - Overview of Digital Forensics
   - Digital Forensic Process
5. Case Workshop
   - Discussion on Information Security Deployment Procedure
   - Discussion on Cyber Security Cases

NETWORK SECURITY BASIS

1. Firewall User Management
   - User Authentication and AAA Technical Principles
   - User Authentication Management and Application
2. Overview of Intrusion Prevention
   - Intrusion Overview
   - Intrusion Prevention System Overview
   - Network Antivirus Overview
3. Introduction to Firewalls
   - Firewall Overview
   - Principle of Firewall Forwarding
   - Firewall Security Policies and Application
   - ASPF
4. Dual-System Hot Standby
   - Technical Principles of Dual-System Hot Standby
   - Basic Networking and Configuration of Dual-System Hot Standby
5. Network Address Translation
   - NAT Principle
   - Source NAT
   - Server Mapping
   - Application Scenarios

OPERATION SYSTEM AND HOST SECURITY

1. Host Firewalls and Antivirus Software
   - Windows Firewalls
   - Linux Firewalls
   - Antivirus Software
2. Operating System Overview
   - Operating System 101
   - Windows Operating System
   - Linux Operating System
3. Common Server Types and Threats
   - Server Overview
   - Common Server Software
   - Server Security Threats
   - Vulnerabilities and Patches

APPLICATION OF ENCRYPTION AND DECRYPTION

1. Public Key Infrastructure (PKI) Certificate System
   - Digital Certificate
   - PKI System Structure
   - PKI Implementation
2. Application of Cryptographic Technologies
   - Application of Cryptography
   - VPN Overview
   - VPN Configuration
3. Encryption and Decryption Mechanisms
   - Encryption Technology Development
   - Encryption and Decryption Mechanisms
   - Common Encryption and Decryption Algorithms

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