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BUOB Computer Training™ Virtual Classroom for Cisco CCNA Security

IINS - Implementing Cisco IOS Network Security (Exam 640-553)

CCNA Security Certification meets the needs of IT professionals who are responsible for network security. It confirms an individual's skills for job roles such as Network Security Specialists, Security Administrators, and Network Security Support Engineers. This certification validates skills including installation, troubleshooting and monitoring of network devices to maintain integrity, confidentiality and availability of data and devices and develops competency in the technologies that Cisco uses in its security structure.

BUOB Computer Training's 640-553 IINS curriculum includes installation, troubleshooting and monitoring of network devices to maintain integrity, confidentiality and availability of data and devices and develops competency in the technologies that Cisco uses in its security infrastructure.

Pre-requisites for this exam is a valid CCNA. BUOB Computer Training recommends that you complete your CCNA certification exam prior to starting this course.

**If you fail the same exam covered by BUOB Computer Training's training on two (2) attempts within 180 days of purchase, a refund will be issued for the corresponding training package.*



COURSE OUTLINE

Goals & Topics

- Icons
- Certification Paths, Learn & Recertification
- Summary

Security Threats: Mitigating Network Attacks

- Goals, Integrity & Availability of Network Security
- Self-Defending Networks
- Network Attacks
- Types of Attacks
- Access Attacks
- Worms, Virus & Trojan Horse Attacks
- Application Layer Attacks
- Tools
- Summary

Securing Cisco Routers

- Cisco Router SDM - Security Audit Feature
- One-Step Lockdown Feature in SDM
- Secure Administrative Access to Cisco Routers
- Multiple Privilege Levels and Role-Based CLI
- Securing Cisco IOS Images, Config Files & Implementation
- Summary

Implementing AAA

- Functions and Features of AAA
- RADIUS
- TACACS+
- Setting Up ACS
- Configuring AAA Throughout the Entire Network
- AAA Accounting
- Summary

Mitigate Threats Using Access Control Lists

- Types of ACLs
- Threat Mitigation Using ACLs
- Summary

Switch Security: Mitigate Common Layer2 Attacks

- Switch Attack Categories
- Private VLANs
- VLAN Hopping, Trunk Exploitation & STP Misuse
- Implementing IP and DHCP Spoof Prevention & ARP Inspection
- Summary

Cisco IOS Firewall Features using SDM

- Firewall Technologies
- Stateful Firewalls
- Cisco IOS Firewall
- Set Up a Firewall on Routers
- Summary

Implementing the Cisco IOS IPS Feature Set Using the SDM

- IDS and IPS Systems
- Network Based, Host Based IPS & Signature Categories
- Cisco IOS IPS
- IPS Policies Wizard & SDM IPS Edit Menu Demonstration
- Summary

Implementing Site-To-Site VPNs on Cisco Routers Using SDM

- Cryptography Methods
- IKE Protocol
- Building Blocks of IPSec
- Advantages of IPSec VPNs
- Message Authentication and Integrity Check
- Differences Between Symmetric and Asymmetric Encryption
- PKI
- 5 Steps of IPSec
- VPN
- Summary
- Course Summary