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Course: CCNA Security Training

Duration: 40 Hrs (Changeable) | Fees: Individual / Batch

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Describe the security threats facing


- * modern network infrastructures
- * Describe and simplify common network attacks
- * Describe the mitigation methods for worm,
- * viruses, and Trojan horse attacks
- * Describe Cisco self-defending network architecture

Secure Cisco routers

- * Secure Cisco routers using the SDM
 - * Security Audit feature
 - * Use one-step lockdown facility for SDM
 - * to secure Cisco Router
 - * Securing encrypted access to Cisco RWRs
 - * enables powerful encrypted passwords,
 - * exit timeouts and login failure
 - * Race, using IOS login improvements
 - * Secure administrative access to Cisco routers
 - * by configuring multiple privilege levels
 - * Secure administrative access to Cisco Rooters
 - * by adjusting the CLI-based congiguration
 - * Secure the Cisco IOS image and configuration file
- Perform AAA on Cisco Rooters using local Router Databases and XSS
- * Describe the activity and significance of AAA
 - * Describe the features of TACACS, RADIUS AAA protocols

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- * Configure AAA authenticationConfigure AAA authorization

- * Set up AAA Accounting

Minimize the threat to Cisco routers and chains used by ACLs

- * Describe the work of typical, expanded and

- * named IP ACLs that routers use to filter packets

- * IP to ease given threats Configure and

- * configure ACLs (suggested IP traffic for telenet,

- * SNMP and DDOS attacks)by CLI

- * Configure IP ACLs to prevent IP address spoofing using CLI

- * Accepted when producing ACLs

Perform secure network management and reporting

- * Use CLI and SDM to configure SSH on cisco and

- * to enable them Secure management access

- * Use CLI and SDM to configure Cisco routers to

- * send Syslog messages to a Syslog Server CCNA security

Mitigate common Layer 2 attacks

- * Explain how Layer 2 attacks can be blocked by

- * configuring the basic layer\'s core security features

Cisco implements the IOS firewall feature using SDM

- * Explain the strengths and weaknesses of different firewall technologies

- * Describe state firewall operations and the function of the state table

- * Perform a zone based firewall with SDM

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Enable Cisco IOS IPS feature using SDM

- * Define the host-based infiltration and
 - * prevention networking network
 - * Explain IPS technologies, attack responses, and surveillance options
 - * Enable and configure Cisco IOS IPS activities using SDM
- Ensure site-to-site VPNs in Cisco routers using SDM
- * Explain the different methods used in cryptography
 - * Explain the IKE protocol function and steps
 - * Explain the IPSec's building blocks and
 - * the security measures it provides
 - * Configure and verify an IPSec site-to-site VPN
 - * with pre-shared key authentication using SDM

(Click on Course for more details)


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- Thank You -

N.B: This syllabus is not final and can be customized as per requirements / updates.

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