

CCNA SECURITY SYLLABUS

ABOUT CCNA SECURITY

Describe the security threats facing modern network infrastructures

- [Describe and list mitigation methods for common network attacks](#)
- [Describe and list mitigation methods for Worm, Virus, and Trojan Horse attacks](#)
- [Describe the Cisco Self Defending Network architecture](#)

Secure Cisco routers

- [Secure Cisco routers using the SDM Security Audit feature](#)
- [Use the One-Step Lockdown feature in SDM to secure a Cisco router](#)
- [Secure administrative access to Cisco routers by setting strong encrypted passwords, exec timeout, login failure rate and using IOS login enhancements](#)
- [Secure administrative access to Cisco routers by configuring multiple privilege levels](#)
- [Secure administrative access to Cisco routers by configuring role based CLI](#)

Implement AAA on Cisco routers using local router database and external ACS

- [Explain the functions and importance of AAA](#)
- [Describe the features of TACACS+ and RADIUS AAA protocols](#)
- [Configure AAA authentication](#)
- [Configure AAA authorization](#)

Mitigate threats to Cisco routers and networks using ACLs

- [Explain the functionality of standard, extended, and named IP ACLs used by routers to filter packets](#)
- [Configure and verify IP ACLs to mitigate given threats \(filter IP traffic destined for Telnet, SNMP, and DDoS attacks\) in a network using CLI](#)
- [Configure IP ACLs to prevent IP address spoofing using CLI](#)

Implement secure network management and reporting

- [Use CLI and SDM to configure SSH on Cisco routers to enable secured management](#)

Mitigate common Layer 2 attacks

Implement the Cisco IOS firewall feature set using SDM

- [Describe the operational strengths and weaknesses of the different firewall technologies](#)
- [Explain stateful firewall operations and the function of the state table](#)

Implement the Cisco IOS IPS feature set using SDM

- [Define network based vs. host based intrusion detection and prevention](#)
- [Explain IPS technologies, attack responses, and monitoring options](#)

Implement site-to-site VPNs on Cisco Routers

- [Explain the different methods used in cryptography](#)
- [Explain IKE protocol functionality and phases](#)
- [Describe the building blocks of IPSec and the security functions it provides](#)

Batch Timing : 7 - 9 am/9 - 11am/11 – 1pm/ 2 – 4pm /4– 6pm / 6 – 8pm / Sat & Sun Only / Sunday Only.

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