



Eduva Tech

# CCNP SECURITY SYLLABUS

**Prepared For :**  
Eduva Tech

**Contact Us:**

[info@eduvatech.com](mailto:info@eduvatech.com)

Call/Whatsapp: +91 9315519124



# Course Outline

## ADAPTIVE SECURITY APPLIANCE (V9.14)

- ASA Overview and History
- ASA deployment
- Bootstrapping and basic ASA configuration
- ASA traffic flow
- ASA routing
- NAT
- Modular Policy Framework (MPF)
- Transparent firewall
- QoS
- ASA HA
- ASA clustering
- Security context



## NGFW/NGIPS – SECURITY FIREWALL (V7.1)

- Introduction and overview
- Firepower deployment
- Firepower traffic flow
- Access Control Policy
- Device and object management
- Network discovery
- Intrusion policy
- NAP and pre-processors
- File detection and AMP4N
- SSL decryption
- Identity policy
- Correlation policies
- Event analysis

## CRYPTOGRAPHY PRIMER AND VPN (IOS, ASA, FIREPOWER AND ANYCONNECT)

- Basics of cryptography
- Introduction to IPSec and PK
- VPN types and modes
- Site-to-Site VPNs
- GETVPN
- FlexVPN
- SSL VPN
- Clientless RA VPNs
- AnyConnect VPNs
- VPN load balancing and HA



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## **INFRASTRUCTURE SECURITY (L2/L3)**

- Layer 2 Threats and Mitigation
- Implementing network foundation protection framework (NFP)
- Understand and secure MP-CP
- Secure management traffic
- Secure Infra device images and config files
- Securing routing protocols

## **CONTENT SECURITY (WSA/ESA)**

- WSA proxy services
- Integrated L4TM
- User identity and authentication
- Web security policies
- URL filtering
- Bandwidth control
- AVC
- SSL decryption
- Outbound data security
- SMTP Overview
- SMTP relay
- ESA packet flow
- Reputation filters
- AS and AV
- Content filters
- Outbreak filters
- Content security

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# CISCO IDENTITY SERVICES ENGINE (V2.7)



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- AAA framework overview
- RADIUS and TACACS+
- IEEE 802.1x
- ISE introduction and overview
- ISE and AD integration
- MAB
- Wired and wireless 802.1x
- Guest access
- ISE posturing
- Device profiling
- BYOD
- TrustSec
- ISE in SDA deployment

## STEALTHWATCH (V7.4)

- NetFlow and deployment scenarios
- Netflow in Cisco IOS and IOS-XE
- StealthWatch Management Console and Flow Collector
- CTA and ETA

## CISCO AMP4E AND TG (5 HOURS)

- AMP4E introduction and overview
- Licensing
- AMP4E Console
- Managing policies
- Best practices
- Malicious investigations
- Introduction to Threat Grid
- Cloud vs On-prem
- TG File analysis
- CTR and SecureX



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## CISCO UMBRELLA (2 HOURS)

- Why and What of DNS?
- DNS Importance
- Umbrella introduction
- Umbrella use cases



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