

# Implementing Advanced Cisco ASA Security (SASAA)

Duration 5 Days

## OVERVIEW

Implementing Advanced Cisco ASA Security provides you with knowledge of advanced features of Cisco ASA security products and enables you to implement the key features of ASA including FirePOWER services , ASA Identity Firewall, ASA Cloud Web security, ASA Clustering and virtual ASA.

## OBJECTIVES

Upon completion of this course, you will be able to:

- Describe the Cisco ASA 5500-X Series Next-Generation Firewalls, ASAv, ASA 5506-X, 5508-X, 5516-X, and ASASM and implement new ASA 9.4.1 features
- Implement Cisco ASA Identity Firewall policies
- Install and set up the Cisco Firepower Services Module (SFR)
- Implement Cisco ASA Cloud Web Security
- Implement cisco ASA Clustering
- Describe Cisco ASA Security Group Firewall and Change of Authorization Support

## WHO SHOULD ATTENT

- Network engineers
- Network designers and administrators
- Network managers.

## PREREQUISITES

Implementing Core Cisco ASA Security v1.0 (SASAC) or equivalent knowledge of the Cisco ASA

## FOLLOW ON COURSES

- Managing Enterprise Security with Cisco Security Manager (SSECMGT)
- Securing Networks with Cisco Firepower Next-Generation IPS (SSFIPS)

## OUTLINE

### Module 1: Cisco ASA Product Family

- Introduction to ASA series firewalls
- Introduction to ASAv
- Deploy ASAv
- ASAv Other hypervisors support, digitally signed image and management options
- Verify ASAv VM
- ASA 9.2.1 BGP IP support
- ASA 9.3 features
- ASA 9.4.1 + VXLAN support
- Describe the Cisco ASASM platforms, architecture, and features

### Module 2: Cisco ASA Identity Firewall

- ASA Identity Firewall benefits, flow and policies
- Cisco CDA basic network configuration
- Application status verification
- Active directory server configuration
- CDA user-account configuration
- CDA GUI password policy configuration
- Configure identity firewall policies on ASA
- Using ASDM
- Using CLI
- FQDN network object configuration
- Verify user-identity operations
- CDA management with CLI, live log monitoring and troubleshooting

### Module 3: Cisco ASA Firepower Services

- SFR introduction
- FireSIGHT management
- SFR management interface, package installation and verification
- FireSIGHT VM installation and setup
- License requirement
- Policy types introduction
- Recommended rules introduction
- Monitoring
- ASDM and Firepower on-box FireSIGHT manager
- Firepower dashboard, reporting, status and events viewer
- Licensing
- Firepower 6.0 features
- System configurations and device platform settings
- Firepower multidomain management

### Module 4: Cisco ASA Cloud Web Security (CWS)

- ASA with CWS introduction
- CWS scanning processes
- Licenses
- ASA with CWS integration
- CWS operations verification
- Verify traffic redirection
- Syslog messages
- ScanCenter web filtering policy introduction and configuration
- ASA CWS AMP introduction
- CWS cognitive threat analysis
- Threats reporting

### Module 5: Cisco ASA Clustering

- Cluster performance figures and supported platforms
- Cluster data-interface modes and connections
- CLL functions
- Cluster dynamic-routing, NAT and PAT operations
- Cluster terminology
- TCP, asymmetric UDP, short-lived and centralized-feature traffic flows
- Cluster management
- Configuration with the CLI
- Each unit configuration
- Master unit configuration
- Sample configuration of a two-unit cluster with spanned etherchannel and individual interface
- Configure ASA cluster using Cisco ASDM
- Cluster licensing
- Verification types
- Troubleshoot ASA cluster operations
- Cluster features

### Module 6: Cisco ASA Security Group Firewall and Change of Authorization (Optional)

- Cisco secure access architecture
- SG Firewall configuration
- SGACL operations monitoring
- SGT features (post 9.0 releases)
- Change of authorization introduction
- Change of authorization CLI and ASDM configurations

## LABS

- Access the Remote Cisco Learning Lab Environment
- Set Up and Test the ASAv
- Implement New Features in ASA 9.3 and 9.4
- Configure the Cisco CDA
- Configure ASA IDFW
- Cisco ASA Firepower Services Module Installation
- Cisco Firepower Management Center Configuration
- Configure ASA CWS
- Cisco ASA Cluster Configuration