

ASAE ASA Essentials

Duration: 5 Days

Course Overview:

ASA Essentials (ASAE) v3.0 is a 5-day Cisco ASA training course where the student will gain the essential skills required to configure, maintain, and operate Cisco ASA 5500-X Series Adaptive Security Appliances based on ASA Software v9.x. If you need to get up to speed quickly with Cisco's Adaptive Security Appliance (ASA), this is the Cisco ASA online course for you.

We have combined the most important content from Cisco's Authorized CCNP Security courses and added additional information on the new features in v9.x software to hone in on the most crucial aspects of the ASA. In just one week, students will cover: Cisco ASA Firewall Training Basics, Network Address Translation (NAT), Access Control Lists (ACLs), Object Groups, Stateful Inspection, Modular Policy Framework, PKI Integration, Site-to-site and Remote Access VPN (both IPsec and SSL), Active/Standby Failover, Server-based Authentication, Authorization, and Accounting (AAA) using ACS 5.2.

If you need to know how to implement and manage Cisco ASA 5500-X, get the essential skills that you need for the job by signing up for our comprehensive, instructor-led course.

Prerequisites:

It is recommended that prior to taking this course, the learner should have successfully completed the following:

- IINS 2.0 - Implementing Cisco IOS Network Security

Who Should Attend:

The primary audience for this course is as follows:

- Network administrators, managers, and coordinators
- Anyone who requires fundamental training on the ASA
- Security technicians, administrators, and engineers



Course Objectives:

Upon completing this course, the learner will be able to meet these overall objectives:

- Technology and features of the Cisco ASA
- Cisco ASA product family
- How ASAs protect network devices from attacks
- Bootstrap the security appliance
- Prepare the security appliance for configuration via the Cisco Adaptive Security Device Manager (ASDM)
- Launch and navigate ASDM
- Essential security appliance configuration using ASDM and the command-line interface (CLI)
- Configure dynamic and static address translations
- Configure access policy based on ACLs
- Use object groups to simplify ACL complexity and maintenance
- Use the Modular Policy Framework to provide unique policies to specific data flows
- Handle advanced protocols with application inspection
- Troubleshoot with syslog and tcp ping
- Configure the ASA to work with Cisco Secure ACS 5.2 for RADIUS-based AAA of VPNs
- Implement site-to-site IPsec VPN
- Implement remote access IPsec and SSL VPNs using the Cisco AnyConnect 3.0 Secure Mobility Client
- Work with the 5.x Legacy Cisco IPsec VPN client and AnyConnect VPN client
- Deploy clientless SSL VPN access, including smart tunnels, plug-ins, and web-type ACLs
- Configure access control policies to implement your security policy across all classes of VPN
- Configure Active/Standby failover for both firewall and VPN high availability



Course Outline:

Module 1: Cisco ASA Essentials

- Lesson 1: Evaluating Cisco ASA Technologies
- Lesson 2: Identifying Cisco ASA Families

Module 2: Basic Connectivity and Device Management

- Lesson 1: Preparing the Cisco ASA for Network Integration
- Lesson 2: Managing Basic Cisco ASA Network Settings
- Lesson 3: Configuring Cisco ASA Device Management Features

Module 3: Network Integration

- Lesson 1: Configuring Cisco ASA NAT Features
- Lesson 2: Configuring Cisco ASA Basic Access Control Features

Module 4: Cisco ASA Policy Control

- Lesson 1: Cisco ASA Modular Policy Framework
- Lesson 2: Configuring Cisco ASA Connection Policy

Module 5: Cisco ASA VPN Architecture and Common Components

- Lesson 1: Implementing Profiles, Group Policies, and User Policies
- Lesson 2: Implementing PKI Services

Module 6: Cisco ASA Clientless Remote Access SSL VPN Solutions

- Lesson 1: Deploying Basic Clientless VPN Solutions
- Lesson 2: Deploying Advanced Application Access for Clientless SSL VPNs

Module 7: Cisco AnyConnect Remote Access SSL Solutions

- Lesson 1: Deploying a Basic Cisco AnyConnect Full-Tunnel SSL VPN Solution

Course Outline (cont.):

Module 8: Cisco ASA Remote Access IPsec VPNs

- Lesson 1: Deploying Cisco Remote Access VPN Clients
- Lesson 2: Deploying Basic Cisco Remote Access IPsec VPN Solutions

Module 9: Cisco ASA Site-to-Site IPsec VPN Solutions

- Lesson 1: Deploying Basic Site-to-Site IPsec VPNs
- Lesson 2: Deploying Advanced Site-to-Site IPsec VPNs

Module 10: Cisco ASA High Availability and Virtualization

- Lesson 1: Configuring Cisco ASA Active/Standby High Availability



Lab Outline:

Lab 1: Prepare the ASA for Administration

Lab 2: Fundamental ASA Configuration

Lab 3: Network Address Translation (NAT)

Lab 4: Basic Access Control

Lab 5: Basic Protocol Inspection

Lab 6: Licensing, ACS, and Public CA

Lab 7: Basic Clientless SSL VPN

Lab 8: Clientless SSL VPN - Thin Apps

Lab 9: Basic AnyConnect Full Tunnel SSL VPN

Lab 10: Remote Access IPsec VPN

Lab 11: IPsec Site-to-Site VPN

Lab 12: Active/Standby Failover