



# Deploying Cisco ASA Firewall Solutions

## Cisco Course 2.0

Course Length: 5 Days

Course Delivery: Traditional Classroom · Online Live · On Demand

This course is aimed at providing network security engineers with the knowledge and skills needed to implement and maintain Cisco ASA adaptive security appliance-based perimeter solutions. You will learn to reduce risk to the IT infrastructure and applications using Cisco ASA adaptive security appliance features, and you will learn how to provide detailed operations support for the Cisco ASA adaptive security appliance.

### What You'll Learn

- Basic technology, features, and hardware models of the Cisco ASA adaptive security appliance product line
- Implement and maintain basic Cisco ASA adaptive security appliance connectivity and device management plane features
- Implement and maintain data plane access control features of the Cisco ASA adaptive security appliance product family
- Implement and maintain Cisco ASA adaptive security appliance features that integrate it with the local and global routing and switching infrastructure
- Implement Network Address Translation (NAT) on the ASA, ASDM public server feature, and quality of service (QoS) settings
- Implement ASA transparent firewall
- ASA routing features, including static and dynamic routing
- Implement ASA inspections features
- ASA Advanced Network Protections and Botnet traffic filter
- Implement and maintain Cisco ASA adaptive security appliance virtualization and high availability features

### Who Needs to Attend

- Anyone who implements and maintains Cisco ASA firewalls
- Network security specialists and technicians
- Candidates seeking CCNP Security certification



*"The Clever Advantage"*

## Prerequisites

- IINS 2.0 - Implementing Cisco IOS Network Security

## Course Outline

### 1. Cisco ASA Adaptive Security Appliance Essentials

- Cisco ASA Adaptive Security Appliance Technologies
- Cisco ASA Adaptive Security Appliance Families
- Cisco ASA Adaptive Security Appliance Licensing Options

### 2. Basic Connectivity and Device Management

- Preparing the Cisco ASA Adaptive Security Appliance for Network Integration
- Managing Basic Cisco ASA Adaptive Security Appliance Network Settings
- Configuring Cisco ASA Adaptive Security Appliance Device Management Features

### 3. Network Integration

- Configuring Cisco ASA Adaptive Security Appliance NAT Features
- Configuring Cisco ASA Adaptive Security Appliance Basic Access Control Features
- Configuring Cisco ASA Adaptive Security Appliance Routing Features
- Configuring the Cisco ASA Adaptive Security Appliance Transparent Firewall

### 4. Cisco ASA Adaptive Security Appliance Policy Control

- Defining the Cisco ASA Adaptive Security Appliance Modular Policy Framework (MPF)
- Configuring Cisco ASA Adaptive Security Appliance Connection Policy and QoS Settings
- Configuring Cisco ASA Adaptive Security Appliance Advanced Application Inspections
- Configuring Cisco ASA Adaptive Security Appliance User-Based Policies

### 5. Cisco ASA Adaptive Security Appliance High Availability and Virtualization

- Configuring Cisco ASA Adaptive Security Appliance Interface Redundancy Features
- Configuring Cisco ASA Adaptive Security Appliance Active/Standby High Availability
- Configuring Security Contexts on the Cisco ASA Adaptive Security Appliance



- Configuring Cisco ASA Adaptive Security Appliance Active/Active High Availability

## Labs

- Upgrading Cisco ASA Software
- Enable SSH Access to the Cisco ASA Adaptive Security Appliance
- Configure Cisco ASA Adaptive Security Appliance Logging to the Syslog Server and Cisco ASDM
- Configure Access Lists
- Enable Scanning Threat Detection with Shunning
- Configure uRPF and use the Real-Time Log Viewer
- Configure Basic Access Control
- Object Groups
- Configure Network Interfaces on the Security Appliance
- Configure Static Routing on the Security Appliance
- Configure HTTP Inspection to Protect the DMZ Server
- Configure ICMP and FTP Inspection
- Enable TCP Intercept

## Supplemental Assets

**Class Notes / Study Guides:** Printable study guide and class notes are intended to support your transfer of knowledge and skills from courses to the workplace. Use these to follow along with instruction, review prior to certification exams, or to reference on the job.

**Test Prep Exams:** Practice tests will help you prepare for a certification exam. You can take a test prep exam in Study Mode (where you receive feedback after each question) or in Certification Mode (designed to mimic a certification exam) as many times as you want.

**Lab Simulations:** Task-based multipath scenarios provide realistic practice of technology subjects or applications.

