

Implementing Core Cisco ASA Security (SASAC)

COURSE OVERVIEW:

Cisco ASA Core is a five-day course that covers the Cisco ASA 9.0 / 9.1 core firewall and VPN features. This course offers hands-on labs and is designed to teach network security engineers working on the Cisco ASA Adaptive Security Appliance to implement core Cisco ASA features, including the new ASA 9.0 and 9.1 features.

If you are considering this course, you may also be interested in ASA Essentials (ASAE). The content in SASAC is very similar to ASAE and we have dates for the ASAE class.

WHO WILL BENEFIT FROM THIS COURSE?

This course is designed for network engineers responsible for supporting Cisco ASA 9.x implementations.

PREREQUISITES:

In order to fully benefit from this course, it is strongly recommended that students have the following prior to enrollment:

- Working knowledge of basic IP networking
- Basic Cisco ASA Knowledge

It would also be beneficial to have the following:

- Successful completion of FIREWALL
- Successful completion of VPN

COURSE OBJECTIVES:

Upon successful completion of this course, students should be able to:

- Explain the core essential features of Cisco ASA 5500-X Series Next Generation Firewalls
- Describe how to implement Cisco ASA basic connectivity and device management
- Implement basic Cisco ASA network integration
- Describe and implement basic Cisco ASA policy controls
- Describe Cisco ASA common VPN components
- Describe and implement Cisco ASA clientless VPN solutions
- Describe and implement Cisco ASA and Cisco AnyConnect full tunnel VPN solutions

COURSE OUTLINE:

Module 1: Cisco ASA Adaptive Security Appliance Essentials

- Lesson 1: Evaluating Cisco ASA Adaptive Security Appliance Technologies
- Lesson 2: Identifying Cisco ASA Adaptive Security Appliance Models
- Lesson 3: Identifying Cisco ASA Adaptive Security Appliance Licensing Options

Module 2: Basic Connectivity and Device Management

- Lesson 1: Preparing the Cisco ASA Adaptive Security Appliance for Network Integration
- Lesson 2: Managing Basic Cisco ASA Adaptive Security Appliance Network Settings

Module 3: Network Integration

- Lesson 1: Configuring Cisco ASA Adaptive Security Appliance NAT Features
- Lesson 2: Configuring Cisco ASA Adaptive Security Appliance Basic Access Control Features
- Lesson 3: Configuring Cisco ASA Adaptive Security Appliance Routing Features

Module 4: Cisco ASA Adaptive Security Appliance Policy Controls

- Lesson 1: Defining the Cisco ASA Adaptive Security Appliance MPF
- Lesson 2: Configuring Cisco ASA Adaptive Security Appliance Advanced Applications Inspections

Module 5: Cisco ASA Adaptive Security Appliance VPN Common Components

- Lesson 1: VPN Overview
- Lesson 2: Implementing Policies, Group Policies, and User Policies
- Lesson 3: Implementing PKI Services

Module 6: Cisco Clientless VPN Solution

- Lesson 1: Introducing Clientless SSL VPN
- Lesson 2: Deploying Basic Cisco Clientless SSL VPN on the Cisco ASA Adaptive Security Appliance
- Lesson 3: Deploying Application Access in Cisco Clientless SSL VPN
- Lesson 4: Deploying Client-Side Authentication and Authorization in Clientless SSL VPN

Module 7: Cisco AnyConnect Full Tunnel VPN Solutions

- Lesson 1: Deploying Basic Cisco AnyConnect SSL VPN on Cisco ASA
- Lesson 2: Deploying Advanced Cisco AnyConnect SSL VPN on Cisco ASA
- Lesson 3: Deploying Advanced Authentication and Authorization in Cisco AnyConnect VPNs
- Lesson 4: Deploying Cisco AnyConnect IPsec/IKEv2 VPNs

Module 8: Cisco ASA Adaptive Security Appliance High Availability and Virtualization

- Lesson 1: Configuring Cisco ASA Adaptive Security Appliance Interface Redundancy Features
- Lesson 2: Configuring Cisco ASA Adaptive Security Appliance Active/Standby High Availability
- Lesson 3: Configuring Security Contexts on the Cisco ASA Adaptive Security Appliance
- Lesson 4: Configuring Cisco ASA Adaptive Security Appliance Active/Active High Availability (Optional)

Lab Outline:

- Lab 1: Accessing the Remote Lab Environment
- Lab 2: Configuring the Cisco ASA Adaptive Security Appliance
- Lab 3: Configuring NAT
- Lab 4: Configuring Basic Cisco Access Control Features
- Lab 5: Configuring MPF, Basic Stateful Inspections, and QoS
- Lab 6: Configuring MPF Advanced Application Inspections
- Lab 7: Implementing Basic Clientless SSL VPN on the Cisco ASA
- Lab 8: Configuring Application Access for Clientless SSL VPN on the Cisco ASA
- Lab 9: Implementing External Authentication and Authorization for Clientless SSL VPNs
- Lab 10: Implementing Basic Cisco AnyConnect SSL VPN on the Cisco ASA
- Lab 11: Configuring Advanced Authentication for Cisco AnyConnect SSL VPNs
- Lab 12: Implementing Cisco AnyConnect IPsec/IKEv2 VPNs
- Lab 13: Configuring Active/Standby High Availability

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