

# **Securing Networks with Cisco Firepower Next Generation Firewall (SSNGFW) v1.0 - On Demand**

**Modality: On Demand**

**Duration: 40 Hours**

**CLC: 10 Units**

## **Course Information**

### **About this course:**

This course will equip you with skills to deploy and use Cisco Firepower® Threat Defense system.

This hands-on course gives you knowledge and skills to use and configure Cisco® Firepower Threat Defense technology. It will start with initial device setup and configuration and will later move toward Cisco Adaptive Security Appliance (ASA) to Cisco Firepower Threat Defense migration, traffic control, and Network Address Translation (NAT). You will also learn how to configure site-to-site VPN, remote-access VPN, and Secure Sockets Layer (SSL) decryption before moving on to detailed analysis, system administration, and troubleshooting. The course will also allow you to implement advanced Next-Generation Firewall (NGFW) and Next-Generation Intrusion Prevention System (NGIPS) features, including network intelligence, file type detection, network-based malware detection, and deep packet inspection.

Upon completing this course, you will be fully prepared to take the Securing Networks with Cisco Firepower (300-710 SNCF) exam, passing which will lead to CCNP Security and Cisco Certified Specialist – Network Security Firepower certifications. The 300-710 SNCF exam has a second preparation course as well, Securing Networks with Cisco Firepower Next-Generation Intrusion Prevention System (SSFIPS). You can take these courses in any order.

### **Course Objective:**

You should be able to have command on the following after completing this course:

- Describe how to manage traffic and implement quality of service (QoS) using Cisco Firepower Threat Defense
- Describe how to implement NAT by using Cisco Firepower Threat Defense
- Implement and manage intrusion policies
- Describe key concepts of NGIPS and NGFW technology and the Cisco Firepower Threat Defense system, and identify deployment scenarios
- Perform initial Cisco Firepower Threat Defense device configuration and setup tasks
- Describe the components and configuration of site-to-site VPN
- Describe and configure a remote-access SSL VPN that uses Cisco AnyConnect®
- Describe SSL decryption capabilities and usage
- Perform an initial network discovery, using Cisco Firepower to identify hosts, applications, and services

- Describe the behavior, usage, and implementation procedure for access control policies
- Describe the concepts and procedures for implementing security intelligence features
- Describe Cisco Advanced Malware Protection (AMP) for Networks and the procedures for implementing file control and advanced malware protection

## **Audience:**

- System engineers
- Technical support personnel
- Cisco integrators and partners
- Security administrators
- Security consultants
- Network administrators

## **Prerequisite:**

To fully benefit from this course, you should have:

- Knowledge of TCP/IP and basic routing protocols
- Familiarity with firewall, VPN, and intrusion prevention system (IPS) concepts

## **Course Outline:**

### **Cisco Firepower Threat Defense Overview**

Examining Firewall and IPS Technology  
Firepower Threat Defense Features and Components  
Examining Firepower Platforms  
Examining Firepower Threat Defense Licensing  
Cisco Firepower Implementation Use Cases

### **Cisco Firepower NGFW Device Configuration**

Firepower Threat Defense Device Registration  
FXOS and Firepower Device Manager  
Initial Device Setup  
Managing NGFW Devices  
Examining Firepower Management Center Policies  
Examining Objects  
Examining System Configuration and Health Monitoring  
Device Management  
Examining Firepower High Availability  
Configuring High Availability  
Cisco ASA to Firepower Migration  
Migrating from Cisco ASA to Firepower Threat Defense

### **Cisco Firepower NGFW Traffic Control**

Firepower Threat Defense Packet Processing  
Implementing QoS  
Bypassing Traffic

## **Cisco Firepower NGFW Address Translation**

NAT Basics  
Implementing NAT  
NAT Rule Examples  
Implementing NAT

## **Cisco Firepower Discovery**

Examining Network Discovery  
Configuring Network Discovery

## **Implementing Access Control Policies**

Examining Access Control Policies  
Examining Access Control Policy Rules and Default Action  
Implementing Further Inspection  
Examining Connection Events  
Access Control Policy Advanced Settings  
Access Control Policy Considerations  
Implementing an Access Control Policy

## **Security Intelligence**

Examining Security Intelligence  
Examining Security Intelligence Objects  
Security Intelligence Deployment and Logging  
Implementing Security Intelligence

## **File Control and Advanced Malware Protection**

Examining Malware and File Policy  
Examining Advanced Malware Protection

## **Next-Generation Intrusion Prevention Systems**

Examining Intrusion Prevention and Snort Rules  
Examining Variables and Variable Sets  
Examining Intrusion Policies

## **Site-to-Site VPN**

Examining IPsec  
Site-to-Site VPN Configuration

Site-to-Site VPN Troubleshooting  
Implementing Site-to-Site VPN

## **Remote-Access VPN**

Examining Remote-Access VPN  
Examining Public-Key Cryptography and Certificates  
Examining Certificate Enrollment  
Remote-Access VPN Configuration  
Implementing Remote-Access VPN

## **SSL Decryption**

Examining SSL Decryption  
Configuring SSL Policies  
SSL Decryption Best Practices and Monitoring

## **Detailed Analysis Techniques**

Examining Event Analysis  
Examining Event Types  
Examining Contextual Data  
Examining Analysis Tools  
Threat Analysis

## **System Administration**

Managing Updates  
Examining User Account Management Features  
Configuring User Accounts  
System Administration

## **Cisco Firepower Troubleshooting**

Examining Common Misconfigurations  
Examining Troubleshooting Commands  
Firepower Troubleshooting