

Cisco® Implementing Cisco® Edge Network Security Solutions (SENSS)

Course Overview

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This is a 5-day class

Implementing Cisco Edge Network Security Solutions (SENSS) v1.0 is a five-day course that is part of the curriculum path leading to the Cisco Certified Network Professional Security (CCNP Security) certification. Additionally, it is designed to prepare security engineers with the knowledge and hands-on experience to prepare them to configure Cisco perimeter edge security solutions utilizing Cisco Switches, Cisco Routers, and Cisco Adaptive Security Appliance (ASA) Firewalls.



Who Should Attend

Network Security Engineers

Course Objectives

Understand current security threat landscape. Understanding and implementing Cisco modular Network Security Architectures such as SecureX and TrustSec. Deploy Cisco Infrastructure management and control plane security controls. Configuring Cisco layer 2 and layer 3 data plane security controls. Implement and maintain Cisco ASA Network Address Translations (NAT). Implement and maintain Cisco IOS Software Network Address Translations (NAT). Designing and deploying Cisco Threat Defense solutions on a Cisco ASA utilizing access policy and application and identity based inspection. Implementing Botnet Traffic Filters. Deploying Cisco IOS Zone-Based Policy Firewalls (ZBFW). Configure and verify Cisco IOS ZBFW Application Inspection Policy.

Other Prerequisites

Cisco Certified Network Associate (CCNA) certification
Cisco Certified Network Associate (CCNA) Security certification
Knowledge of Microsoft Windows operating system

Course Outline

1 Course Introduction

2 Cisco Secure Design Principles

Lesson 1: Network Security Zoning
Lesson 2: Cisco Module Network Architecture
Lesson 3: Cisco SecureX Architecture
Lesson 4: Cisco TrustSec Solutions

3 Implement Network Infrastructure Protection

Lesson 1: Introducing Cisco Network Infrastructure Architecture
Lesson 2: Deploying Cisco IOS Control Plane Security Controls
Lesson 3: Deploying Cisco IOS Management Plane Security Controls
Lesson 4: Deploying Cisco ASA Management Plane Security Controls
Lesson 5: Deploying Cisco Traffic Telemetry Methods
Lesson 6: Deploying Cisco IOS Layer 2 Data Plane Security Controls
Lesson 7: Deploying Cisco IOS Layer 3 Data Plane Security Controls



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4 Deploying NAT on Cisco IOS and Cisco Adaptive Security Appliance (ASA) Firewalls

Lesson 1: Introducing Network Address Translation
Lesson 2: Deploying Cisco ASA Network Address Translation
Lesson 3: Deploying Cisco IOS Software Network Address Translation

5 Deploying Threat Controls on Cisco ASA Firewalls

Lesson 1: Introducing Cisco Threat Controls
Lesson 2: Deploying Cisco ASA Basic Access Controls
Lesson 3: Deploying Cisco ASA Application Inspection Policies
Lesson 4: Deploying Cisco ASA Botnet Traffic Filtering
Lesson 5: Deploying Cisco ASA Identity Based Firewall

6 Deploying Threat Controls on Cisco IOS Software

Lesson 1: Deploying Cisco IOS Software with Basic Zone-Based Firewall Policies
Lesson 2: Deploying Cisco IOS Software Zone-Based Firewall with Application Inspection Policies

7 Lab Guide