ASM Educational Center (ASM) *Est. 1992*

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Implementing Cisco Edge Network Security Solutions (Part of the CCNP Security certification track)

Course Outline

Module 1: 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

Module 2: 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

Module 3: Deploying NAT on Cisco IOS and Cisco Adaptive Security Appliance (ASA)

Lesson 1: Introducing Network Address Translation

Lesson 2: Deploying Cisco ASA Network Address Translation

Lesson 3: Deploying Cisco IOS Software Network Address Translation

Module 4: Deploying Threat Controls on Cisco ASA

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

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Lesson 5: Deploying Cisco ASA Identity Based Firewall

Module 5: 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

Lab Outline

Lab 2-1: Configuring Configure Cisco Policy Protection (CPP) and Management Plane Protection (MPP)

Lab 2-2: Configure Traffic Telemetry Methods

Lab 2-3: Configure Layer 2 Data Plane Security

Lab 2-4: Configure Layer 3 Data Plane Security

Lab 3-1: Configure NAT on Cisco Adaptive Security Appliance (ASA) Firewall

Lab 3-2: Configure NAT on Cisco IOS Software

Lab 4-1: Configure Cisco ASA Access Policy

Lab 4-2: Configure Cisco ASA Application Inspection Policy

Lab 4-3: Configure Cisco ASA Botnet Traffic Filter

Lab 4-4: Configure Cisco ASA Identity Based Firewall

Lab 5-1: Configure Cisco IOS Software Zone-Based Firewall (ZBFW)

Lab 5-2: Configure Cisco IOS Software ZBFW Application Inspection Policy