Securing the Web with Cisco Web Security Appliance (SWSA) v3.0 -

Modality: On Demand

Duration: 40 Hours

On Demand

CLC: 5 Units

Course Information

About this course:

This course will provide you skills to implement, use, and maintain Cisco® Web Security Appliance (WSA), powered by Cisco Talos. Being a Cisco Web Security Appliance expert you will be able to provide advanced protection for business email, and full control against web security threats.

Through a combination of instructor video, text, and hands-on practice, you'll learn how to implement policies to control HTTPS traffic and access, implement use control settings and policies, deploy proxy services, implement data security and data loss prevention, perform administration of Cisco WSA solution, use authentication, use the solution's anti-malware features, and more.

Upon completing this course, you will be fully prepared to take the Securing the Web with Cisco Web Security Appliance (300-725 SWSA) exam, passing which will lead to CCNP® Security and the Cisco Certified Specialist - Web Content Security certifications.

Course Objective:

Yu should be able to do the following once you complete the course:

- Enforce acceptable use control settings
- · Defend against malware
- Describe data security and data loss prevention
- · Perform administration and troubleshooting
- Describe Cisco WSA
- Deploy proxy services
- Utilize authentication
- Describe decryption policies to control HTTPS traffic
- Understand differentiated traffic access policies and identification profiles

Audience:

- Operations engineers
- Network managers, network or security technicians, and security engineers and managers responsible for web security

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- Cisco integrators and partners
- · Security architects

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- System designers
- Network administrators

Prerequisite:

You should have knowledge of these topics to fully benefit from this course:

- IP routing
- TCP/IP services, including Domain Name System (DNS), Secure Shell (SSH), FTP, Simple Network Management Protocol (SNMP), HTTP, and HTTPS

You are expected to have one or more of the following basic technical competencies or equivalent knowledge:

- Cisco Networking Academy letter of completion (CCNA 1 and CCNA 2)
- Windows expertise: Microsoft [Microsoft Specialist, Microsoft Certified Solutions Associate (MCSA), Microsoft Certified Solutions Expert (MCSE)], CompTIA (A+, Network+, Server+)
- Cisco certification (CCENT certification or higher)
- Relevant industry certification [International Information System Security Certification Consortium ((ISC)²), Computing Technology Industry Association (CompTIA) Security+, International Council of Electronic Commerce Consultants (EC-Council), Global Information Assurance Certification (GIAC), ISACA]

Course Outline:

Describing Cisco WSA

Technology Use Case

Cisco WSA Solution

Cisco WSA Features

Cisco WSA Architecture

Proxy Service

Integrated Layer 4 Traffic Monitor

Data Loss Prevention

Cisco Cognitive Intelligence

Management Tools

Cisco Advanced Web Security Reporting (AWSR) and Third-Party Integration

Cisco Content Security Management Appliance (SMA)

Deploying Proxy Services

Explicit Forward Mode vs. Transparent Mode

Transparent Mode Traffic Redirection

Web Cache Control Protocol

Web Cache Communication Protocol (WCCP) Upstream and Downstream Flow

Proxy Bypass

Proxy Caching

Proxy Auto-Config (PAC) Files

FTP Proxy
Socket Secure (SOCKS) Proxy
Proxy Access Log and HTTP Headers
Customizing Error Notifications with End User Notification (EUN) Pages

Utilizing Authentication

Authentication Protocols

Authentication Realms

Tracking User Credentials

Explicit (Forward) and Transparent Proxy Mode

Bypassing Authentication with Problematic Agents

Reporting and Authentication

Re-Authentication

FTP Proxy Authentication

Troubleshooting Joining Domains and Test Authentication

Integration with Cisco Identity Services Engine (ISE)

Creating Decryption Policies to Control HTTPS Traffic

Transport Layer Security (TLS)/Secure Sockets Layer (SSL) Inspection Overview

Certificate Overview

Overview of HTTPS Decryption Policies

Activating HTTPS Proxy Function

Access Control List (ACL) Tags for HTTPS Inspection

Access Log Examples

Understanding Differentiated Traffic Access Policies and Identification Profiles

Overview of Access Policies

Access Policy Groups

Overview of Identification Profiles

Identification Profiles and Authentication

Access Policy and Identification Profiles Processing Order

Other Policy Types

Access Log Examples

ACL Decision Tags and Policy Groups

Enforcing Time-Based and Traffic Volume Acceptable Use Policies, and End User

Notifications

Defending Against Malware

Web Reputation Filters

Anti-Malware Scanning

Scanning Outbound Traffic

Anti-Malware and Reputation in Policies

File Reputation Filtering and File Analysis

Cisco Advanced Malware Protection

File Reputation and Analysis Features Integration with Cisco Cognitive Intelligence

Enforcing Acceptable Use Control Settings

Controlling Web Usage
URL Filtering
URL Category Solutions
Dynamic Content Analysis Engine
Web Application Visibility and Control
Enforcing Media Bandwidth Limits
Software as a Service (SaaS) Access Control
Filtering Adult Content

Data Security and Data Loss Prevention

Data Security
Cisco Data Security Solution
Data Security Policy Definitions
Data Security Logs

Performing Administration and Troubleshooting

Monitor the Cisco Web Security Appliance Cisco WSA Reports Monitoring System Activity Through Logs System Administration Tasks Troubleshooting Command Line Interface

References

Comparing Cisco WSA Models

Comparing Cisco SMA Models

Overview of Connect, Install, and Configure

Deploying the Cisco Web Security Appliance Open Virtualization Format (OVF) Template Mapping Cisco Web Security Appliance Virtual Machine (VM) Ports to Correct Networks

Connecting to the Cisco Web Security Virtual Appliance

Enabling Layer 4 Traffic Monitor (L4TM)

Accessing and Running the System Setup Wizard

Reconnecting to the Cisco Web Security Appliance

High Availability Overview

Hardware Redundancy

Introducing Common Address Redundancy Protocol (CARP)

Configuring Failover Groups for High Availability

Feature Comparison Across Traffic Redirection Options

Architecture Scenarios When Deploying Cisco AnyConnect® Secure Mobility