



Train. Employ. Empower.

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

Price
\$995.00

Duration
**2 Daytime Classes
or
4 Evening Classes**

Delivery Methods
**Virtual, Private
Group,**

CAREER SKILLS+™

The Securing the Web with Cisco Web Security Appliance (SWSA) v3.0 course shows you how to implement, use, and maintain Cisco® Web Security Appliance (WSA), powered by Cisco Talos, to provide advanced protection for business email and control against web security threats. Through a combination of expert instruction and hands-on practice, you'll learn how to deploy proxy services, use authentication, implement policies to control HTTPS traffic and access, implement use control settings and policies, use the solution's anti-malware features, implement data security and data loss prevention, perform administration of Cisco WSA solution, and more.

Who Should Attend

Security architects
System designers
Network administrators
Operations engineers
Network managers, network or security technicians, and security engineers and managers responsible for web security
Cisco integrators and partners

Course Prerequisites

To fully benefit from this course, you should have one or more of the following basic technical competencies:

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

IP routing

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]

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+)

Course Objectives

Describe Cisco WSA

Deploy proxy services

Utilize authentication

Describe decryption policies to control HTTPS traffic

Understand differentiated traffic access policies and identification profiles

Enforce acceptable use control settings

Defend against malware

Describe data security and data loss prevention

Perform administration and troubleshooting

Agenda

1 - 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)
2 - 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
3 - 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)
4 - 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
5 - 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
6 - 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
7 - 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
8 - Data Security and Data Loss Prevention
Data Security
Cisco Data Security Solution
Data Security Policy Definitions
Data Security Logs
9 - 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
10 - 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
11 - Lab Outline
Configure the Cisco Web Security Appliance
Deploy Proxy Services



Configure Proxy Authentication
Configure HTTPS Inspection
Create and Enforce a Time/Date-Based Acceptable Use Policy
Configure Advanced Malware Protection
Configure Referrer Header Exceptions
Utilize Third-Party Security Feeds and MS Office 365 External Feed
Validate an Intermediate Certificate
View Reporting Services and Web Tracking
Perform Centralized Cisco AsyncOS Software Upgrade Using Cisco SMA

