

## Securing the Web with Cisco web Security Appliance

Duration: 2 Days    Course Code: SWSA    Version: 3.1

### Overview:

The **Securing the Web with Cisco Web Security Appliance (SWSA)** 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.

**This course is worth 16 Continuing Education (CE) Credits**

### Target Audience:

Individuals involved in the deployment, installation and administration of a Cisco Web Security Appliance.

### Objectives:

- **After completing this course you should be able to:**
- 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

### Prerequisites:

**Attendees should meet the following prerequisites :**

- TCP/IP services, including Domain Name System (DNS), Secure Shell (SSH), FTP, Simple Network Management Protocol (SNMP), HTTP, and HTTPS
- IP routing
- CCNA - Implementing and Administering Cisco Solutions
- G013 - CompTIA Security+

### Testing and Certification

**Recommended preparation for exam(s) :**

**300-725** - Securing the Web with Cisco Web Security Appliance

### Follow-on-Courses:

**Delegates looking for training on Cisco's Email Security Appliance should consider:**

- **SESA** - Securing your Email with Cisco Email Security Appliance

## Content:

### Cisco WSA Overview

- 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)

### 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

### Cisco WSA 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)

### Administration and Troubleshooting

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

### Decryption Policies

- 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

### 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

### 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

### Labs:

- Discovery Lab 1: Configure the Cisco Web Security Appliance
- Discovery Lab 2: Configure Proxy Authentication
- Discovery Lab 3: Configure Reporting Services and Web Tracking
- Discovery Lab 4: Configure the Cisco Secure Email and Web Manager for Tracking and Reporting
- Discovery Lab 5: Configure HTTPS Inspection
- Discovery Lab 6: Create and Enforce a Time/Date-Based Acceptable Use Policy
- Discovery Lab 7: Configure Advanced Malware Protection
- Discovery Lab 8: Configure Referrer Header Exceptions
- Discovery Lab 9: Utilize Third-Party Security Feeds and MS Office 365 External Feed
- Discovery Lab 10: Validate an Intermediate Certificate

## Further Information:

For More information, or to book your course, please call us on 0800/84.009

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