Contact: Info@silverlake.sg +65 - 65882456

# Securing the Web with Cisco Web Security Appliance v3.0

Course#:SWSA
Duration:2 Days

Price:0.00

## **Course Description**

Through a combination of expert instruction and hands-on practice, the SWSA - Securing the Web with Cisco Web Security Appliance v3.0 course teaches how to deploy proxy services, use authentication, implement policies to control HTTPS traffic and access, implement use control settings and policies, use the solutions anti-malware features, implement data security and data loss prevention, perform administration of Cisco WSA solution, and more. This course helps you prepare to take the exam, Securing the Web with Cisco Web Security Appliance (300-725 SWSA), which leads to the CCNP Security and Cisco Certified Specialist - Web Content Security certifications. The 300-725 SWSA exam certifies your knowledge of Cisco Web Security Appliance including proxy services, authentication, decryption policies, differentiated traffic access policies and identification policies, acceptable use control settings, malware defense, and data security and data loss prevention.

# **Objectives**

After taking 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

#### **Audience**

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

## **Prerequisites**

To fully benefit from this course, you should have knowledge of these topics:

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

IP routing

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

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+)

CCNA-Implementing and Administering Cisco Solutions v1.0 Boot Camp

SCOR - Implementing and Operating Cisco Security Core Technologies v1.0

## Content

#### Virtual Classroom Live 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

#### Virtual Classroom Live Labs

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