



Implementing Cisco SD-WAN Security and Cloud Solutions (SDWSCS) v1.0

What you'll learn in this course

The Implementing Cisco SD-WAN Security and Cloud Solutions (SDWSCS) v1.0 course is an advanced training course focused on Cisco SD-WAN security and cloud services. Through a series of labs and lectures you will learn about on-box security services, including application-aware enterprise firewall, intrusion prevention, URL filtering, malware protection, and Transport Layer Security (TLS) or Secure Socket Layer (SSL) decryption. You will also learn about cloud integration with multiple cloud service providers across multiple use cases.

Additionally, the course labs will allow you to configure and deploy local security services and cloud security services with the Cisco Umbrella Secure Internet Gateway (SIG), as well as integrate the Cisco SD-WAN fabric with a cloud service provider using the Cisco vManage automated workflows.

The course lab environment is built using Cisco Catalyst 8000v IOS XE routers and Cisco SD-WAN 20.7 code, and it includes the integration of Cisco FirePOWER Threat Defense for network security and Cisco ThousandEyes for network monitoring.

The course will allow you to earn 24 Continuing Education (CE) credits toward recertification.

Course duration

- Instructor-led training: 3 days in the classroom and hands-on lab practice
- Virtual instructor-led training: 3 days of web-based classes and hands-on lab practice
- E-learning: Equivalent of 3 days of instruction

How you'll benefit

This course will:

- Introduce you to the security and cloud services available in Cisco SD-WAN
- Help you understand drivers, benefits, available features, and the architecture of Cisco SD-WAN integrated and distributed security and cloud networking services

Who should enroll

This course is designed for the following roles:

- Network engineers
- Network security engineers
- Network architects
- Sales/presales engineers

Technology areas

- Enterprise networking
- Network security
- Cisco SD-WAN
- Cloud services

Course details

Objectives

After completing this course, you should be able to:

- Describe Cisco SD-WAN security functions and deployment options
- Understand how to deploy on-premises threat prevention
- Describe content filtering options
- Implement secure Direct Internet Access (DIA)
- Explain and implement service chaining
- Explore Secure Access Service Edge (SASE) and identify use cases
- Describe Cisco Umbrella Secure Internet Gateway (SIG) and deployment options
- Implement Cisco Umbrella SIG and Domain Name System (DNS) policies
- Explore and implement Cloud Access Security Broker (CASB) and identify use cases (including Microsoft 365)
- Describe how to use Cisco ThousandEyes to monitor cloud services
- Configure Cisco ThousandEyes to monitor Microsoft 365 applications
- Examine how to protect and optimize access to the Software as a Service (SaaS) application with Cisco SD-WAN Cloud OnRamp
- Describe and deploy Cloud OnRamp for multi-cloud, including interconnect and colocation use cases
- Examine Cisco SD-WAN monitoring capabilities and features with vManage and vAnalytics

Recommended knowledge and training

Before taking this course, you should have a:

- Basic understanding of enterprise routing
- Basic understanding of WAN networking
- Basic understanding of Cisco SD-WAN
- Basic understanding of Public Cloud services

These recommended Cisco learning offerings may help students meet these prerequisites:

- Implementing and Administering Cisco Solutions (CCNA®)
- Implementing Cisco SD-WAN Solutions (ENSDWI)
- Cisco SD-WAN Operation and Deployment (SDWFND)

How to enroll

To enroll in the SDWSCS course or explore our larger catalog of courses on Cisco Digital Learning, contact us at <LP email/URL>

Outline

- Introducing Cisco SD-WAN Security
- Deploying On-Premises Threat Prevention
- Examining Content Filtering
- Exploring Cisco SD-WAN Dedicated Security Options
- Examining Cisco SASE
- Exploring Cisco Umbrella SIG
- Securing Cloud Applications with Cisco Umbrella SIG
- Exploring Cisco SD-Wan ThousandEyes
- Optimizing SaaS Applications
- Connecting Cisco SD-WAN to Public Cloud
- Examining Cloud Interconnect Solutions
- Exploring Cisco Cloud OnRamp for Colocation
- Monitoring Cisco SD-WAN Cloud and Security Solutions

Lab outline

Configure Threat Prevention
Implement Web Security
Deploy DIA Security with Unified Security Policy
Deploy Service Chaining
Configure Cisco Umbrella DNS Policies
Deploy Cisco Umbrella Secure Internet Gateway
Implement CASB Security
Microsoft 365 SaaS Testing by Using Cisco ThousandEyes
Configure Cisco OnRamp for SaaS

