

Implementing Cisco SD-WAN Security and Cloud Solutions

Durée: 3 Jours **Réf de cours: SDWSCS** **Version: 1.2** **Méthodes d'apprentissage: Virtual Learning**

Résumé:

The Implementing Cisco SD-WAN Security and Cloud Solutions (SDWSCS) 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 TLS or SSL decryption. Cloud integration with multiple cloud services providers and across multiple use-cases is also covered.

The 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.

This course is worth 24 Continuing Education (CE) Credits.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Public visé:

Anyone involved in the deployment of a Cisco SD-WAN Security solution.

Objectifs pédagogiques:

■ After completing this course, you should be able to:

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

Pré-requis:

Attendees should meet the following prerequisites:

- Basic understanding of enterprise routing
- Basic understanding of WAN networking
- Basic understanding of Cisco SD-WAN
- Basic understanding of Public Cloud services
- CCNA - Mettre en oeuvre et administrer des solutions réseaux Cisco

Test et certification

Reommended as preparation for the following exams:

- There are no exams currently aligned to this course.

Contenu:

Introducing Cisco SD-WAN Security

- Cisco SD-WAN Security Overview
- Cisco SD-WAN Platform
- Cisco SD-WAN Security Types

Deploying On-Premises Threat Prevention

- Cisco SD-WAN Integrated Security Overview
- Deploying Application Aware Firewall
- Deploying Intrusion Prevention

Examining Content Filtering

- Cisco SD-WAN Content Filtering
- Implementing Web Security Functionalities
- Implementing Cisco SD-WAN SSL and TLS Proxy
- Implementing File Security
- Secure Direct Internet Access
- Implementing Unified Security Policies

Exploring Cisco SD-WAN Dedicated Security Options

- Integrating Cisco SD-WAN with Dedicated Security
- Service Chaining Deep Dive
- Deploying Service Chaining
- Troubleshooting Service Chaining
- Deploying TrustSec On Cisco SD-WAN

Examining Cisco SASE

- Introducing Cisco SASE Architecture
- Cisco Security Vision - Cisco SASE
- Implementing Cisco SASE

Exploring Cisco Umbrella SIG

- SIG Overview
- Integrating SIG and Cisco SD-WAN
- Umbrella DNS Deep Dive
- Cisco Umbrella CDFW and IPS
- Umbrella Secure Web Gateway

Securing Cloud Applications with Cisco Umbrella SIG

- Cloud Application Security Overview
- Implementing Cisco Umbrella CASB

Exploring Cisco SD-Wan ThousandEyes

- Cisco ThousandEyes Overview
- Deploying Cisco ThousandEyes with Cisco SD-WAN

Optimizing SaaS Applications

- SaaS Application Challenges in a Modern WAN
- Cloud OnRamp for SaaS Deep Dive
- Cloud OnRamp for SaaS via SIG
- Cloud OnRamp for SaaS and Microsoft 365

Connecting Cisco SD-WAN to Public Cloud

- Public Cloud Overview
- Deploying Cisco SD-WAN Edge Devices in a Public Cloud
- Cisco Cloud OnRamp for Multicloud
- Deploying Cisco Cloud OnRamp for Multicloud

Examining Cloud Interconnect Solutions

- Cloud Interconnect Overview
- Cisco SD-WAN Cloud Interconnect

Exploring Cisco Cloud OnRamp for Colocation

- Colocation Overview
- Cloud OnRamp for Colocation Overview
- Deploy Cloud OnRamp for Colocation

Monitoring Cisco SD-WAN Cloud and Security Solutions

- Monitoring Tools Available in vManage
- Cisco vAnalytics Monitoring Overview

Labs

- Discovery Lab 1: Configure Threat Prevention
- Discovery Lab 2 :Implement Web Security
- Discovery Lab 3: Deploy DIA Security with Unified Security Policy
- Discovery Lab 4: Deploy Service Chaining
- Discovery Lab 5: Configure Cisco Umbrella DNS Policies
- Discovery Lab 6 :Deploy Cisco Umbrella Secure Internet Gateway
- Discovery Lab 7: Implement CASB Security
- Discovery Lab 8: Microsoft 365 SaaS Testing by Using Cisco ThousandEyes
- Discovery Lab 9: Configure Cisco OnRamp for SaaS
- Discovery Lab 10: Deploy Cisco SD-WAN Multicloud Gateways
- Discovery Lab 11 :Cisco vAnalytics Overview

Autres moyens pédagogiques et de suivi:

- Compétence du formateur : Les experts qui animent la formation sont des spécialistes des matières abordées et ont au minimum cinq ans d'expérience d'animation. Nos équipes ont validé à la fois leurs connaissances techniques (certifications le cas échéant) ainsi que leur compétence pédagogique.
- Suivi d'exécution : Une feuille d'émargement par demi-journée de présence est signée par tous les participants et le formateur.
- En fin de formation, le participant est invité à s'auto-évaluer sur l'atteinte des objectifs énoncés, et à répondre à un questionnaire de satisfaction qui sera ensuite étudié par nos équipes pédagogiques en vue de maintenir et d'améliorer la qualité de nos prestations.

Délais d'inscription :

- Vous pouvez vous inscrire sur l'une de nos sessions planifiées en inter-entreprises jusqu'à 5 jours ouvrés avant le début de la formation sous réserve de disponibilité de places et de labs le cas échéant.
- Votre place sera confirmée à la réception d'un devis ou "booking form" signé. Vous recevrez ensuite la convocation et les modalités d'accès en présentiel ou distanciel.
- Attention, si cette formation est éligible au Compte Personnel de Formation, vous devrez respecter un délai minimum et non négociable fixé à 11 jours ouvrés avant le début de la session pour vous inscrire via moncompteformation.gouv.fr.

Accueil des bénéficiaires :

- En cas de handicap : plus d'info sur globalknowledge.fr/handicap
- Le Règlement intérieur est disponible sur globalknowledge.fr/reglement