



FIREFLY

Securing Cloud Deployments with Cisco Technologies

DURATION: 4 DAYS

COURSE CODE: SECCLD

FORMAT: LIVE/VIRTUAL

COURSE OVERVIEW

The Securing Cloud Deployments with Cisco Technologies (SECCLD) v1.0 course shows you how to implement Cisco® cloud security solutions to secure access to the cloud, workloads in the cloud, and Software as a Service (SaaS) user accounts, applications, and data. Through expert instruction and hands-on labs, you'll learn a comprehensive set of skills and technologies including: how to use key Cisco cloud security solutions; detect suspicious traffic flows, policy violations, and compromised devices; implement security controls for cloud environments; and implement cloud security management. This course covers usage of Cisco Cloudlock, Cisco Umbrella™, Cisco Cloud Email Security, Cisco Advanced Malware Protection (AMP) for Endpoints, Cisco Stealthwatch® Cloud and Enterprise, Cisco Firepower® NGFW (next-generation firewall), and more.

This class will help you:

- Learn how to deploy and troubleshoot Cisco cloud security solutions to protect your cloud, users, data, and applications; prevent breaches and quickly detect and mitigate attacks; improve security and incident response, and more
- Learn skills that can be applied to both public and private solutions including Amazon Web Services (AWS), Google Cloud Platform (GCP), IBM Cloud, Microsoft Azure, Dimension Data Cloud, Alibaba Cloud, VMware Cloud, and other cloud solutions
- Gain leading-edge skills for high-demand jobs focused on enterprise security

WHO SHOULD ATTEND

This course is open to engineers, administrators, and security-minded users of public, private, and hybrid cloud infrastructures responsible for implementing security in cloud environments:

- Security architects
- Cloud architects
- Security engineers
- Cloud engineers
- System engineers
- Cisco integrators and partners

PREREQUISITES

To fully benefit from this course, you should have completed the following course or obtained the equivalent knowledge and skills:

Knowledge of cloud computing and virtualization software basics

Ability to perform basic UNIX-like OS commands

Cisco CCNP® security knowledge or understanding of the following topic areas:

TOPIC AREAS

- Cisco Adaptive Security Appliance (ASA) and Adaptive Security Virtual Appliance (ASAv) deployment, and Cisco IOS® Flexible NetFlow operations
- Cisco NGFW (Cisco Firepower Threat Defense [FTD]), Cisco Firepower, and Cisco Firepower Management Center (FMC) deployment
- Cisco Content Security operations including Cisco Web Security Appliance (WSA)/ Cisco Email Security Appliance (ESA)/Cisco Cloud Web Security (CWS)
- Cisco AMP for network and endpoints deployment
- Cisco ISE operations and Cisco TrustSec architecture
- VPN operation

AVAILABLE IN THESE COURSES

Implementing Cisco Edge Network Security Solutions (SENSS)

Implementing Cisco Threat Control Solutions (SITCS)

Implementing Cisco Secure Access Solutions (SISAS)

Implementing Cisco Secure Mobility Solutions (SIMOS)

LEARNING OBJECTIVES

Contrast the various cloud service and deployment models

Implement the Cisco Security Solution for SaaS using Cisco Cloudlock Micro Services

Deploy cloud security solutions using Cisco AMP for Endpoints, Cisco Umbrella, and Cisco Cloud Email Security

Define Cisco cloud security solutions for protection and visibility using Cisco virtual appliances and Cisco Stealthwatch Cloud

Describe the network as a sensor and enforcer using Cisco Identity Services Engine (ISE), Cisco Stealthwatch Enterprise, and Cisco TrustSec®

Implement Cisco Firepower NGFW Virtual (NGFWv) and Cisco Stealthwatch Cloud to provide protection and visibility in AWS environments

Explain how to protect the cloud management infrastructure by using specific examples, defined best practices, and AWS reporting capabilities

COURSE OUTLINE

1. Introducing the Cloud and Cloud Security

- Describe the Evolution of Cloud Computing
- Explain the Cloud Service Models

2. Implementing the Cisco Security Solution for SaaS Access Control

- Explore Security Challenges for Customers Using SaaS
- Describe User and Entity Behavior Analytics, Data Loss Prevention (DLP), and Apps Firewall

3. Deploying Cisco Cloud-Based Security Solutions for Endpoints and Content Security

- Describe Cisco Cloud Security Solutions for Endpoints
- Describe AMP for Endpoints Architecture

4. Introducing Cisco Security Solutions for Cloud Protection and Visibility

- Describe Network Function Virtualization (NFV)
- Describe Cisco Secure Architectures for Enterprises (Cisco SAFE)

5. Describing the Network as the Sensor and Enforcer

- Describe Cisco Stealthwatch Enterprise
- Describe Cisco ISE Functions and Personas

6. Implementing Cisco Security Solutions in AWS

- Explain AWS Security Offerings
- Describe AWS Elastic Compute Cloud (EC2) and Virtual Private Cloud (VPC)

7. Describing Cloud Security Management

- Describe Cloud Management and APIs
- Explain API Protection

DISCOVERY LABS

- 1: Explore the Cisco Cloudlock Dashboard and User Security
- 2: Explore Cisco Cloudlock Application and Data Security
- 3: Explore Cisco AMP Endpoints
- 4: Perform Endpoint Analysis Using the AMP Endpoint Console
- 5: Examine the Umbrella Dashboard
- 6: Examine Cisco Umbrella Investigate
- 7: Explore Email Ransomware Protection by Cisco Cloud Email Security
- 8: DNS Ransomware Protection by Cisco Umbrella
- 9: Explore File Ransomware Protection by Cisco AMP for Endpoints
- 10: Explore a Ransomware Execution Example
- 11: Implement Cisco ASAv in ESXi
- 12: Configure and Test Basic Cisco ASAv Network Address Translation (NAT)/Access Control List (ACL) Functions
- 13: Explore Cisco Stealthwatch Cloud
- 14: Explore Stealthwatch Cloud Alerts Settings, Watchlists, and Sensors
- 15: Explore the Network as the Sensor and Enforcer
- 16: Explore Cisco Stealthwatch Enterprise
- 17: Deploy NGFWv and FMCv in AWS
- 18: Troubleshoot FTD and FMC in AWS – Scenario 1
- 19: Troubleshoot FTD and FMC in AWS – Scenario 2
- 20: Troubleshoot FTD and FMC in AWS – Scenario 3
- 21: Explore AWS Reporting Capabilities