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Learning Style: On Demand

Technology: Cisco

Difficulty: Intermediate

Course Duration: 40 Hours

Securing Cloud Deployments with Cisco Technologies (SECCLD) v1.0 - On Demand

Course Information

About this course:

This e-learning course will teach you skills to implement Cisco® cloud security

solutions to secure Software as a Service (SaaS) user accounts, applications, data, cloud access and cloud workloads.

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.

Virtual instructor led training, text based course material, and hands-on labs will help you learn the 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.

Course Objective:

You will be equipped with the following skills after taking this course:

- 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 Amazon Web Services (AWS) environments
- Explain how to protect the cloud management infrastructure by using specific examples, defined best practices, and AWS reporting capabilities
- 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

Audience:

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

Prerequisite:

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 level of knowledge

Course Outline:

- **User and Entity Behavior Analytics, Data Loss Prevention (DLP), and Apps Firewall**
- **Cloud Access Security Broker (CASB)**
- **Cisco CloudLock as the CASB**
- **OAuth and OAuth Attacks**
- **Deploying Cisco Cloud-Based Security Solutions for Endpoints and Content Security**
- **Cisco Cloud Security Solutions for Endpoints**
- **AMP for Endpoints Architecture**
- **Cisco Umbrella**
- **Cisco Cloud Email Security**
- **Design Comprehensive Endpoint Security**
- **Introducing Cisco Security Solutions for Cloud Protection and Visibility**
- **Network Function Virtualization (NFV)**
- **Cisco Secure Architectures for Enterprises (Cisco SAFE)**
- **Cisco NGFWv/Cisco Firepower Management Center Virtual**
- **Cisco ASAv**
- **Cisco Services Router 1000V**
- **Cisco Stealthwatch Cloud**
- **Cisco Tetration Cloud Zero-Trust Model**
- **The Network as the Sensor and Enforcer**
- **Cisco Stealthwatch Enterprise**
- **Cisco ISE Functions and Personas**
- **Cisco TrustSec**
- **Cisco Stealthwatch and Cisco ISE Integration**
- **Cisco Encrypted Traffic Analytics (ETA)**
- **Implementing Cisco Security Solutions in AWS**
- **Explain AWS Security Offerings**
- **AWS Elastic Compute Cloud (EC2) and Virtual Private Cloud (VPC)**
- **Discover Cisco Security Solutions in AWS**
- **Cisco Stealthwatch Cloud in AWS**
- **Cloud Security Management**
- **Cloud Management and APIs**
- **API Protection**
- **An API Example: Integrate to ISE Using pxGrid**
- **Identify SecDevOps Best Practices**
- **Cisco Cloud Security Management Tool Example: Cisco Defense Orchestrator**
- **Cisco Cloud Security Management Tool Example: Cisco CloudCenter**
- **Cisco Application Centric Infrastructure (ACI)**
- **AWS Reporting Tools**