

## COURSE OUTLINE

# Introducing Cisco Cloud Consumer Security (SECICC) v1.0

**Duration:** 1 Day

### Prerequisites:

This course has no prerequisites, but you'll get the most from the course if you have the following knowledge and skills:

- Basic computer literacy
- Basic PC operating system navigation skills
- Basic Internet usage skills
- Basic IP address knowledge

We also recommend that you have the following skills:

- Prior knowledge of cloud computing and virtualization software basics

### Course Description:

The Introducing Cisco Cloud Consumer Security (SECICC) v1.0 course gives you a technical overview of basic concepts and components of the cloud, and the Cisco® solutions used to provide comprehensive security of your cloud-based environment. In this primarily lecture-based course, you'll learn the basics from a cloud consumer perspective including securing cloud and Software as a Service (SaaS) application environments. This introductory course provides insights on using Cisco Stealthwatch™ Cloud, Cisco CloudLock, Cisco Umbrella™ and more to protect the user when using cloud-based applications.

### Course Objectives:

- Describe public, private, and hybrid cloud models, concepts, and design
- Explain the concepts and components for securing cloud environments
- Describe Cisco security offerings for Amazon Web Services (AWS)
- Define methods to secure SaaS application usage

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

### Intended Audience:

This course benefits cloud consumers and administrators of public cloud, private cloud, and hybrid cloud infrastructures:

- Security architects
- Cloud architects
- Network engineers and administrators
- System engineers and administrators
- Cloud security consumers
- Cloud application administrators
- IT managers
- Line of business managers
- Cisco integrators and partners

### Course Outlines:

#### Introducing the Cloud

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

#### Introducing Securing the Cloud

- Describe the Cisco Threat-Centric Approach to Network Security
- Describe Cloud Physical Environment Security
- Describe Cloud Network Infrastructure Security
- Explain Application Security
- Explore Cloud Management and API Security
- Describe Cisco Cloud-Based Security Solutions

- Describe Network Functions Virtualization (NFV), Virtual Network Function (VNF), and Secure Agile Exchange (SAE)
- Describe Cisco CloudCenter for MultiCloud Management
- Describe Cisco Stealthwatch

#### Describing Cloud Security Solutions Using AWS

- Identify AWS Security Offerings
- Identify Cisco Security Solutions in AWS

#### Introducing Security in an SaaS Environment

- Describe SaaS Applications
- Describe SaaS Security Challenges
- Explain Cloud Access Security Broker
- Describe Cisco CloudLock
- Describe OAuth and OAuth Attacks
- Describe Cisco Advanced Malware Protection for Endpoints
- Describe Cisco Cloud Email Security
- Describe Cisco Umbrella

#### Lab outline

- Explore Cisco Stealthwatch Cloud
- Explore Stealthwatch Cloud Alerts Settings, Watchlists, and Sensors
- Explore Cisco Security Solutions in AWS Marketplace
- Explore the Cisco CloudLock Dashboard and User Security
- Explore Cisco CloudLock Application and Data Security
- Explore Cisco Advanced Malware Protection (AMP) Endpoints
- Explore the Cisco Umbrella Roaming Client

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