



# Cloud Security for AWS

***In this course, you will learn about the different components that make up the Amazon Web Services (AWS) infrastructure and the security challenges these environments present, including high availability (HA), autoscaling, and software-defined networking (SDN) connectors, and how to manage traffic in the cloud with Fortinet products.***

## Product Version

- FortiGate 7.0
- FortiWeb 6.3

## Course Duration

- Lecture time (estimated): 3 hours
- Lab time (estimated): 5 hours
- Total course duration (estimated): 8 hours/1 day

## Who Should Attend

Anyone who is responsible for the deployment or day-to-day management of Fortinet solutions on AWS should attend this course.

## Certification

This course is intended to help you prepare for the *NSE 6—Cloud Security 7.0 for AWS* certification exam.

## Prerequisites

- General knowledge of IaaS vendors and experience with FortiGate and FortiWeb VMs

## AWS Prerequisite

To run the labs on AWS, students *must* have their own AWS accounts with the following:

- Valid payment method registered on the account
- Ability to subscribe to FortiGate PAYG and FortiWeb PAYG products on AWS Marketplace
- Capacity for at least four elastic IPs and 10 vCPUs in a single region
- Permissions to create the following:
  - VPCs
  - EC2 instances
  - Security groups
  - Lambda functions
  - AIM users
  - Elastic load balancers
  - Autoscaling groups
  - Cloud formation stack deployments

The estimated cost per student for running the lab, if done within the specified lab times and everything is deleted at the end, is USD 10 per day.

## Agenda

1. Introduction to the Public Cloud
2. AWS Concepts
3. High Availability and Load Balancer
4. Fortinet Solution for AWS

## Objectives

After completing this course, you will be able to:

- Understand the concept of the public cloud
- Understand AWS basic concepts
- Review AWS components
- Identify AWS security
- Describe the traffic flow in AWS
- Distinguish between different licenses in AWS Marketplace
- Deploy Fortinet products in AWS
- Configure the load balancer
- Identify FortiGate native active-passive HA
- Deploy FortiGate active-active HA with AWS ELB
- Understand how to use Fortinet GitHub
- Understand FortiGate AWS SDN integration

- Identify Fortinet WAF solutions for AWS
- Understand FortiGate autoscaling

## Training Delivery Options and SKUs

### Instructor-Led Training

Includes standard NSE training content delivered in person onsite, or live online using a virtual classroom application. Training is delivered within [public classes](#) or as a private class. Private requests are scoped, quoted, developed, and delivered by Fortinet Training (minimum quantities apply).

Use the following ILT Training SKU to purchase scheduled public classes of this course through [Fortinet Resellers](#) or [Authorized Training Partners](#):

FT-AWS-CDS

### Self-Paced Training

Includes online training videos and resources through the [NSE Training Institute](#) library, free of charge.

See [Purchasing Process](#) for more information about purchasing Fortinet training products.

## (ISC)<sup>2</sup>

- CPE training hours: 3
- CPE lab hours: 5
- CISSP domains: Communication and Network Security

## Program Policies and FAQs

For questions about courses, certification, or training products, refer to [Program Policy Guidelines](#) or [Frequently Asked Questions](#).

