

Public Cloud Security

In this course, you will learn how to deploy FortiGate VMs in the public cloud using various methods. You will learn how to use third-party automation tools to deploy FortiGate VMs and secure your network. You will take a deep dive into AWS SD-WAN Connect deployment and learn how to utilize AWS Transit Gateway to secure east-west and north-south traffic. You will also learn how to effectively troubleshoot FortiGate deployments in Azure and how to use FortiCNP to simplify risk management for your AWS workloads.

Product Version

- FortiGate 7.2

Course Duration

- Lecture time (estimated): 6 hours
- Lab time (estimated): 10 hours
- Total course duration (estimated): 16 hours
 - 3 full days or 4 half days

Who Should Attend

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

Certification

This course is intended to help you prepare for the *Fortinet NSE 7 - Public Cloud Security 7.2* certification exam. This exam is in the Fortinet Certified Solution Specialist - Public Cloud Security certification track.

Prerequisites

- General knowledge of IaaS vendors
- Experience with FortiGate and Linux VMs
- Completion of the *FCP - Cloud Security for AWS* and *FCP - Cloud Security for Azure* courses or a clear understanding of network components and how to deploy resources in Azure

AWS Prerequisites

Labs: students must have *own* account with:

- A valid payment method registered on the account*
- Capacity for at least four elastic IPs and 15 vCPUs in a single region
- Capacity to deploy FortiGate HA with 10 or more network interfaces
- Permissions to create the following:
 - Minimum 6 VPCs and 10 EC2 instances
 - S3 bucket
 - CloudShell
 - Security groups
 - Internet and Transit gateways
 - Lambda functions
 - IAM users with AWSMarketplaceFullAccess, AmazonEC2FullAccess permissions

Azure Prerequisites

Labs: students must have *own* account with:

- Pay-as-you-go subscription with valid payment method*
- Ability to deploy FortiGate from Azure Marketplace and Terraform
- Capacity for at least 15 vCPUs in a single region
- Capacity to deploy FortiGate HA with 10 or more network interfaces
- Permissions to create the following:
 - App registrations (service principal) and keys
 - Minimum 6 VNets
 - Minimum 7 VMs with 15 vCPUs
- The ability to do the following:
 - Run Cloud Shell with storage setup
 - Read the Active Directory properties and use Azure functions
 - IAM user with contributor, owner, and user access administrator role permissions

*Estimated lab cost/student, following all instructions, is USD \$10/cloud vendor/day. Free trial will not work for some exercises.

Agenda

1. FortiGate Deployment
2. Automation
3. Deploying a FortiGate VM Using Terraform

4. Troubleshooting
5. Cloud-Native Protection: FortiCNP

Objectives

After completing this course, you will be able to:

- Deploy a FortiGate SD-WAN Connect scenario with AWS Transit Gateway
- Deploy a FortiGate VM on AWS/Azure in single, HA modes
- Use Terraform to deploy environments
- Use Ansible to make FortiGate configuration changes
- Troubleshoot Terraform and HA deployment issues
- Use FortiCNP to simplify risk management

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-PUB-CDS

Self-Paced Training

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

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

(ISC)²

- CPE training hours: 6
- CPE lab hours: 10
- 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](#).

