

FortiOS Administrator

Course Description

In this course, you will learn how to use the most common FortiGate features.

In interactive labs, you will explore firewall policies, user authentication, high availability, logging and monitoring, site-to-site IPsec VPN, FortiGate in Cloud, FortiSASE, and how to protect your network using security profiles, such as IPS, antivirus, web filtering, application control, and more. These administration fundamentals will provide you with a solid understanding of how to implement the most common FortiGate features.

Who Should Attend

Networking and security professionals involved in the management, configuration, administration, and monitoring of FortiGate devices used to secure their organizations' networks should attend this course.

You should have a thorough understanding of all the topics covered in the FortiGate Operator course before attending the FortiOS Administrator course.

Prerequisites

- Knowledge of network protocols
- Basic understanding of firewall concepts

Agenda

1. System and Network Settings
2. Logging and Monitoring
3. Firewall Policies and NAT
4. Routing
5. Firewall Authentication
6. Fortinet Single Sign-On (FSSO)
7. Certificate Operations
8. Antivirus
9. Web Filtering
10. Intrusion Prevention and Application Control
11. IPsec VPN
12. SD-WAN Configuration and Monitoring
13. High Availability
14. Diagnostics and Troubleshooting
15. FortiGate in the Cloud
16. FortiSASE

Objectives

After completing this course, you will be able to:

- Configure FortiGate basic networking from factory default settings
- Configure and control administrator access to FortiGate
- Use the GUI and CLI for administration
- Describe methods of device registration
- View and search for logs on FortiGate and FortiAnalyzer
- Configure IPv4 firewall policies
- Apply port forwarding, source NAT, and destination NAT
- Analyze a FortiGate route table
- Configure static routing
- Implement route redundancy and load balancing
- Configure a remote LDAP and RADIUS authentication server on FortiGate
- Monitor firewall users from the FortiGate GUI
- Deploy Fortinet Single Sign-On (FSSO) access to network services, integrated with Microsoft Active Directory (AD)
- Describe encryption functions and certificates
- Describe SSL inspection on FortiGate
- Configure security profiles to neutralize threats and misuse, including viruses, torrents, and inappropriate websites
- Apply application control techniques to monitor and control network applications that might use standard or non-standard protocols and ports
- Configure IPsec VPN using the IPsec wizard and manual process
- Configure SD-WAN and verify traffic distribution
- Identify the primary and secondary device tasks in an HA cluster
- Identify the different operation modes for HA with the FortiGate Clustering Protocol (FGCP)
- Diagnose and correct common problems
- Identify FortiGate VM and FortiGate CNF in the cloud
- Identify FortiSASE and various FortiSASE use cases

System Requirements

If you take the online format of this class, you must use a computer that has the following:

- A high-speed Internet connection
- An up-to-date web browser
- A PDF viewer
- Speakers or headphones
- One of the following:
 - HTML 5 support
 - An up-to-date Java Runtime Environment (JRE) with Java plugin enabled in your web browser

You should use a wired Ethernet connection, *not* a Wi-Fi connection. Firewalls, including Windows Firewall or FortiClient, must allow connections to the online labs.

Product Versions

- FortiOS 7.6.0

Course Duration

- Lecture time (estimated): 13 hours
- Lab time (estimated): 11 hours
- Total course duration (estimated): 24 hours
 - 4 full days or 7 half days

Formats

- Instructor-led (classroom and online)
- Self-paced online

ISC2

- CPE training hours: 13
- CPE lab hours: 11
- CISSP domains: Security Operations

Part Number (SKU)

See Purchasing Process for more information

Certification

This course is intended to help you prepare for the Fortinet NSE 4 - FortiOS 7.6 Administrator exam. This exam is part of the following certification tracks:

- FCP - Secure Networking Certification
- FCP - SASE Certification
- FCP - Cloud Security Certification
- FCP - Security Operations Certification