



Mindsets

Network Security Consulting and Training Services

IT SOLUTIONS BASED ON EGYPT

Engineered Training

Developed by

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COURSE OUTLINES



FORTIGATE FIREWALL **V7.X**

FORTINET TECHNOLOGIES

COURSE OVERVIEW

The Fortigate 7.X is a Fortinet Technologies course that is developed for whom seeking to understand Fortigate Firewall Technologies along with generic foundational knowledge in Security Solutions. 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, SSL VPN, site-to-site IPsec VPN, Fortinet Security Fabric, 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.

COURSE RELATED CERTIFICATIONS

The FortiGate course is not aligned with any specific certification exam. It is custom-developed for Fortinet Technologies and can be recommended for anyone planning to take the following exam:

- NSE4 Fortigate Administration

This course provides valuable knowledge and skills that will be beneficial in preparing for these certifications, even though it is not directly aligned with any specific exam.

COURSE PREREQUISITES

There are no specific prerequisites for this course, although it's recommended to fulfill below points to better understand technologies and features

Recommended to have at least CCNA R&S

Recommended to have good knowledge of Windows Server and Basic understanding of firewall concepts

Recommended to have at least 1 – 3 years of networking experience.

Recommended to have a laptop in Lab sessions.

COURSE OBJECTIVES

After completing this course, you will be able to:

- Configure FortiGate basic networking from factory default settings
- Apply port forwarding, source NAT, and destination NAT
- Authenticate users using firewall policies
- Understand encryption functions and certificates
- Configure security profiles
- Offer an SSL VPN for secure access to your private network
- Establish an IPsec VPN tunnel between two FortiGate devices
- Configure SD-WAN underlay, overlay, and local breakout
- Deploy FortiGate devices as an HA cluster
- Diagnose and correct common problems

TARGET AUDIENCE

Who Should Attend:

- Networking Administrators Engineers
- Security Engineers
- Operation Engineers
- Pre-sales Engineers

DURATION

The FortiGate course has a duration of 30 hours. This includes all instructional content, hands-on labs, and any additional training materials required to gain a comprehensive understanding of FortiGate technologies

DELIVERY

- Online Classroom
- Onsite Classroom
- Recorded Videos
- Free Version

TOOLS AND MATERIALS

- Recorded Video's
- Animated Presentation
- Official Guide
- Software for Labs
- Configuration Templates
- Lab Topologies EVE-ng

COURSE INDEX

Module#1 Introduction

- Introduction to Fortinet Products & Certificates
- Firewall fundamentals and Security Concepts,
- Install PNET LAB
- FortiGate Initial Configuration
- GUI and CLI Overview
- Administration
- Firmware upgrade and downgrade
- Backup and Restore
- Global Settings
- Fortigate Modes
- Fortiguard
- Feature Visibility
- Password Policy , retries and lockout time and recovery
- Process Monitor

Module#2 Interface and routing

- Interfaces Types
 - VLANs
 - Link Aggregation
 - Redundant Interface
 - Hardware Switch
 - Software Switch
- Interfaces Roles
 - LAN
 - WAN
 - DMZ

- DHCP , DHCP Relay
- Zones
- Routing
 - Static

Module#3 Policy and Object

- Ipv4 Policy
 - Objects
 - Interface
 - Addresses (Subnet, IP Range, FQDN, Geography, MAC, ISD)
 - Services
 - Schedule's
 - Action
- Traffic Shaping Policy

Module#4 NATING

- NATING
 - Central NAT
 - Policy NAT
 - SNAT
 - Overload
 - One to one
 - Fixed port Range
 - Port Block Allocation
 - DNAT

Module#5 Firewall Authentication

- Firewall Authentication Types
 - LDAP
 - FSSO
- User Authentication
 - Firewall Policy
 - Captive Portal

Module#6 Security Profiles and Inspection

- Digital Certificates
 - Deep Inspection
 - Certificate Inspection
- Security Profiles
 - Antivirus
 - Web Filter
 - DNS Filter
 - File Filter
 - Application Control

Module#7 SDWAN and HA

- SD-WAN
 - SD-WAN Zone
 - SD-WAN Member
 - SD-WAN Policy
 - SD-WAN SLA
- High Availability

Module#8 VPN

- SSL VPN
- IPsec VPN

Module#9 Challenge LAB

OUR CONTACT



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First 6th of October, October
Gardens, Giza Governorate