

Fortinet FortiGate Firewall (NSE4)

This course is focused on:

- ⇒ IT Professional
- ⇒ System Administrator
- ⇒ Support Analysts
- ⇒ Security Manager

Course Duration:

- **24 Hours**, 12 Classes, 2 Hours per class (weekly 2 Days)

Lesson 01: Internetworking Basic

- Network Security fundamentals
- Introduction to Firewall Technologies.
- Introduction About Fortinet FortiGate
- Firewall Sizing
- Network analysis & Device deployment

Lesson 02: Fortigate Firewall Dashboard

- Install FortiGate Firewall On VMWare.
- FortiGate Firewall Dashboard.
- FortiGate Firewall Initial Working Lab.
- FortiGate OS Upgradation (Online & Offline)
- Firewall operations & Services

Lesson 03: Redundant Interface in Fortigate with VLAN

- Firewall Administration
- Firewall deployment mood
- FortiGate Firewall Interfaces and Zones.
- Configure and Verify VLAN and Zone Lab.
- Configure and Verify One-Armed Sniffer Lab

- Configure Redundant Interface in FortiGate
- Configure Aggregate Interface in FortiGate.
- Configure Virtual Wire Pair in FortiGate.

Lesson 04: Configure Routing & Lab

- Administrative Access in FortiGate Firewall.
- Configure DNS & DNS Server In FortiGate.
- Static, Default, Dynamic and Policy Route Theory.
- Configure & Verify Static & Default Route Lab
- Configure and Verify Policy Routing Lab

Lesson 05: Dynamic Protocols

- Configure and Verify Dynamic Protocol OSPF.
- Configure and Verify Routing Redistribution.
- Configure and Verify Dynamic Protocol BGP.
- FortiGate Firewall Policies Theory

Lesson 06: Services and IP address Based Policy FortiGate Firewall

- MAC Address Based Policy in FortiGate Firewall
- Local User Based Policy in FortiGate Firewall
- IP Address Based Policy in FortiGate Firewall.
- Services and Schedule Based Policy in FortiGate.
- FortiGate Firewall DHCP Server Theory.

Lesson 07: Fortigate Firewall as DHCP Server Lab

- FortiGate Firewall as DHCP Server .
- FortiGate Firewall as DHCP Relay
- FortiGate Firewall License Activation.
- FortiGate Firewall Security Profile & FortiGuard
- FortiGate Firewall Replacement Messages.

Lesson 08: Security Profile

- Security Profile Antivirus Profile
- Security Profile Web Filter Profile.
- Security Profile DNS Filter.
- Security Profile Application Control
- Security Profile Intrusion Prevention.

Lesson 09: Firewall Different Mode

- Security Profile File Filter.
- FortiGate Firewall Inspection Mode.
- FortiGate Firewall NGFW Modes.
- Policy-Based Mode to Block Facebook App
- Policy-Based Mode for Default Services

Lesson 10: FortiGate Firewall Modes (Transparent).

- Configure and Verify IPv4 DoS Policy
- Network Address Translation Theory
- Policy , Source ,Interface Overload NAT Lab
- Policy,Source,Overload NAT Lab
- FortiGate Firewall Modes (Transparent).

Lesson 11: NAT Theory

- Network Address Translation Theory
- Policy,Source,Interface Overload NAT Lab.
- Policy,Source,Overload NAT Lab
- Policy,Source,One-To-One NAT Lab.
- Policy,Source,Fixed Port Range NAT Lab.
- Policy,Source, Port Block Allowcation NAT Lab.
- Source NAT, Central Secure NAT (SNAT)
- Destination NAT, Virtual IP in Security Policy

Lesson 12: High Availability Theory

- Destination NAT, Virtual IP with Central SNAT.
- Addresses Objects in FortiGate Firewall.
- Services Objects in FortiGate Firewall.
- High Availability (HA) Theory.
- High Availability HA Active-Passive Lab

Lesson 13: Authentication with AD

- High Availability HA Active-Active Lab
- FortiGate Authentication With AD & Lab Setup
- FortiGate Active Authentication(AD).
- FortiGate Passive Authentication (AD).
- Configure & Verify Virtual Domains (VDOMs).

Lesson 14: IPSec VPN and Firmware Upgrade

- Site-to-Site IPSec Route-Based VPN Template Lab.
- Site-to-Site IPsec Route-Based VPN Custom Lab
- Configure SNMP V1/V2 and SNMP V3 in FortiGate

Lesson 15: Traffic Shaping and SSL VPN

- Configure Syslog in FortiGate Firewall.
- Traffic Shaping Shared Shaper and Per IP Shaper.
- Remote Access SSL VPN Web Portal Theory & Lab.
- Remote Access IPSec VPN Theory and Lab

Lesson 16: Traffic Shaping and SSL VPN

- Troubleshooting FortiGate Firewall.
- Fundamental CLI Commands in FortiGate Firewall.
- Configure and Verify Packet Capture in FortiGate