

NSE4 /NSE5 - FORTIGATE FIREWALL

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- In this 3-weeks class, you will learn how to use basic FortiGate UTM.
- In interactive labs, you will explore firewall policies, basic VPNs, virus detection, web filtering, application control, user authentication, and more.
- These administrative fundamentals will provide you with a solid understanding of how to integrate basic network security.

Prerequisites:

- Strong Knowledge of TCP/IP Protocols
- Basic Knowledge of Firewalls

Course Outline:

Introduction to firewalls 1 Generation and 2nd Gne firewalls

- Understanding 1 Generation firewalls
- Understanding 2 Generation firewalls
- Understanding 2nd Gne Firewalls and futures
- Understanding UTM firewalls futures

Module-1: Introduction to fortigate

- Understanding Features of Fortigate
- Understanding Fortigaurd Queries & Packages
- Initial Configuration
- Upgrading Firmware
- Backup & Restore
- Configuring DHCP

Module-2: Introduction to Routing

- configure static and dynamic routing
- Configure ospf and redistribution
- configure rip and redistribution
- configrue routing between cisco to fortigate
- configure routing between fortigate to fortigate
- BGP Configuration

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Module-3: Firewall Policies

- Basic Firewall Policies
- configure policies for internet
- configure policies based network
- configure Policies based devices
- Understanding NAT
- Configuring Static NAT
- Configuring Static nat (port forwarding) using Virtual Server

Module-4: Authentication

- Create Authentication Policies
- Creating User and policies
- Create Admin privilege accounts
- Monitor firewall Users
- Configure Ldap server for authentication

Module-5: Logging & Monitoring

- Understanding Log severity levels
- Understanding Logs & Sub log types
- Understanding Log structures
- Configuring log settings
- Redirect logs to Syslog & SNMP

Module-6: Antivirus

- Types of Virus & Malware
- Configure Antivirus scanning
- Test Antivirus scanning
- Monitor antivirus logs

Module-7: Webfilter

- Understanding Fortigate Webfiltering Mechanism
- Configuring Content Filtering
- Configuring URL Filtering
- Monitor Webfilter logs

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Module-8: Application Control

- Updating Application Control Database
- Configuring Application control profile
- Traffic Shaping
- Logging Application control event

Module-9: Intrusion Prevention system

- Choose IPS Signatures
- Configure Anomaly based Detection
- Configure signature based detection
- Configure DOS Sensor
- Monitor & Recognize Attacks using IPS

Module-10: Certificate Operations

- Generating a CSR
- Configuring SSL/SSH inspection
- Generating Self signed Certificate
- Enable SSL Inspection in fortigate

Module-11: Data Leakage Prevention

- Understanding Function of DLP
- Filter files & Messages

Module-13: Basic IPSEC VPN

- Understanding Architecture of IPSEC
- Understanding IKE Phase 1 & 2
- Configure IPSEC between two networks
- Configure IPSEC between fortigate to fortigate
- Configure IPSEC between fortigate to cisco
- configure IPSEC overlapping vpn
- Configure IPSEC VPN fortigate to paloalto
- configure forticlient vpn configuration

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Module-14: SSL VPN

- Understanding SSL Architecture
- Operation Modes of SSL
- Configuring SSL VPN WebMode
- Configuring Bookmark
- Configure firewall policies for SSL VPN
- Monitor SSL Users

Module-15

- SD-WAN CONFIGURSTION
- High availability

Module-16

- Configure web-application firewall
- Configure mitigate web application based attacks
- Configure security fabric

NSE - 5 FORTIMANAGER AND FORTI ANA fortianalyzer

Module-17

NSE 5

- Configure fortianalyzer
- Configure FortiManager
- Configure Fortigate firewall
- Add Fortigate and Fortianalyzer in to Manager
- Configure Devices Configuration in fortimanager
- Import policy package from fortigate firewall
- Configure polices push to fortigate firewall
- Configure security profiles
- Configure security fabric

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