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**CORE NETWORKING
CLASSES**

**GET TRAINING
BY CERTIFIED
TRAINERS AND
INDUSTRY
EXPERTS**

TRAINING TYPE
ONLINE

COURSE DURATION
1 MONTH

NO OF HOURS
2 HOURS/DAY

CERTIFICATE
FORTIGATE NSE4

SKILL LEVEL
INTERMEDIATE

STUDY MATERIAL
YES

BATCHES AVAILABLE
WEEKDAYS/WEEKENDS



FORTINET®

FORTIGATE

**START YOUR
LEARNING
WITH CNC**



COURSE CONTENT

1 Build a Fortinet FW Lab using Eve-NG

- Build a Fortinet FW Lab using Eve-NG
- Eve-NG Lab Overview
- FortiGate Lab Topology Design Eve-NG
- Eve-NG to use FortiGate Images
- Building the LAB topology in Eve-NG
- Initial Boot of a FortiGate VM

2 Build a Fortinet FW Lab using VMware Workstation

- Adding FW VMs to the Lab Topology
- FortiGate Lab Topology Design VMware Workstation
- Intro to Building a FortiGate Lab in VMware Workstation
- Prepare the Networking in VMware Workstation
- Testing LAB PC to Internet Connectivity
- VMware Workstation Lab Overview

3 Build a Fortinet FW Lab using VMware ESXi

- Adding FW VMs to the Lab Topology
- Intro to Building a Lab in VMware ESXi
- Lab Topology Design
- Prepare the Networking in VMware ESXi
- Testing LAB PC to Internet Connectivity
- VMware ESXi Lab Overview

4 FortiGate FW Network Fundamentals

- Intro to FortiGate Network Fundamentals
- Overview
- Bootstrap Using the CLI
- Initial GUI access
- Data Plane Interfaces
- Adding a Default Route
- Verify the Data Plane
- Initial Config for Remaining Firewalls

5 FortiGate FW IP Routing Fundamentals

- Intro to FortiGate IP Routing
- Overview of Learning Routes
- Directly Connected Networks
- Static Routes
- FortiGate and RIP
- FortiGate and OSPF
- FortiGate and BGP

6 FortiGate FW DHCP Services

- Intro to FortiGate DHCP Services
- DHCP Overview
- FortiGate DHCP Server Config
- Verifying DHCP
- DHCP Reservations
- FortiGate as a DHCP Client
- DHCP Relay

7 FortiGate FW Address Translation

- Intro to IPv4 Address Translation
- NAT and PAT Overview
- Design for Source PAT
- Source PAT Using the Security Policy
- Source PAT Using Central SNAT
- 1 to 1 Mappings for Source NAT

- Destination NAT-PAT Overview
- Implementing DNAT in Local Policy
- Implement DNAT with Central NAT

8 FortiGate Virtual Networking and Trunking

- Intro to Integration with Trunking
- Trunking Overview
- Trunking and VLAN Interface Design
- Hypervisor Trunking and Switching
- FW VLAN Interfaces
- Placing the Router Interface
- Connecting Client VMs to new VLAN Port Groups
- Troubleshooting

9 Physical FortiGate Integration with VMs

- Intro to Physical and Virtual Integration
- Physical and Virtual Trunking and VLAN Interfaces.
- Virtual and Physical Components
- Bootstrapping a Physical FortiGate
- Configure VLAN Interfaces
- Configure a Default Route
- Configure Source NAT
- Configure a Security Policy

10 FortiGate FW Security Policy Fundamentals

- Intro to Security Policies
- Firewall & Security Policy Overview
- Options for Source (Profile-based NGFW Mode)
- Policy Options for Destination
- Time Based Policies
- Matching on Service
- NGFW Mode Policy Based
- Working with Policies

11 FortiGate Outbound SSL-TLS Decryption

- Intro to Outbound TLS-SSL Decryption
- SSL-TLS Decryption Overview
- Design for Outbound SSL-TLS Decryption
- CSR on the FortiGate
- SSL Inspection Profile
- Include Profile in Firewall Policy

12 FortiGate Inbound SSL-TLS Decryption

- Intro to Inbound SSL-TLS Decryption
- Inbound Decryption Overview
- Configure the VIP
- Configure Firewall Policy
- Adding a Trusted CA

- Extract the Cert and Keys from Server
- Add Profile to Firewall Policy

13 FortiGate Web Filtering

- Intro to FortiGate Web Filtering
- Web Filtering Overview
- Game Plan for Web Filtering
- Static URL Filter
- Category Filtering
- Web Rating Overrides
- Web Filtering Authentication
- Web Profile Overrides
- Usage Quotas

14 FortiGate DNS Filtering

- Intro to FortiGate DNS Filtering
- DNS Filtering Overview
- Botnet C&C Domain Blocking
- Enforcing Safe Search
- Category Based DNS Filters
- Local Static Domain Filter
- External IP Block Lists
- DNS Translation

15 FortiGate Application Control

- Intro to FortiGate Application Control
- Application Control Overview
- Application Control Signatures and License
- NGFW mode Profile-based Application Control
- Profile-Based App Overrides
- Profile-Based Filter Overrides
- NGFW mode Policy-based Application Control
- Policy-based Application Groups

16 FortiGate Antivirus

- Intro to FortiGate Antivirus
- Antivirus Overview
- Licensing and Updates
- Create an AntiVirus Profile
- Apply the Antivirus Profile
- Antivirus Profiles Without Deep SSL Inspection
- External Malware Block Lists

17 FortiGate Intrusion Prevention

- Intro to FortiGate Intrusion Prevention
- IPS and IDS Overview

- IPS Blocking for Malicious URLs
- IPS Blocking to C&C IPs
- Filtering IPS Signatures
- IPS for Hosted Servers
- Customizing IPS Signatures
- Hold Time for New Signatures
- Web Application Firewall

18 FortiGate DoS Prevention

- Intro to FortiGate DoS Protection
- DoS Protection Overview
- ICMP Flood DoS Policy
- Quarantine with Dos Policies
- TCP Syn-Flood DoS Policy
- Port Scan DoS Policy
- RPF Checking
- DoS Policy Unplugged

19 FortiGate VPNs

- Intro to FortiGate VPNs
- VPN Overview
- Site to Site IPsec VPN Design
- Implement IPsec Site to Site VPN
- SSL Remote Access Web Mode Design
- 6 Implement SSL Web Mode

- SSL Remote Access Tunnel Mode Design
- Implement SSL Tunnel Mode
- IPsec Remote Access

20 FortiGate Virtual Domains (VDOMs)

- Intro to FortiGate Virtual Domains (VDOMs)
- Virtual Domains (VDOMs) Overview
- Create a new VDOM
- Create per-VDOM Admins
- Allocate Interfaces to a VDOM
- Configure VDOM Interfaces
- Configure VDOM Routing
- VDOM NAT and Firewall Policies
- VDOM Resources
- VDOM Links
- VDOM Mgmt. Interface

21 FortiGate Transparent Mode

- Intro to FortiGate Transparent Mode
- L2, L3, and the FortiGate
- Game Plan for Transparent Mode
- Creating a Transparent VDOM
- Create a L2 Virtual Wire

22 FortiGate High Availability

- Intro to FortiGate High Availability (HA)
- High Availability (HA) Overview
- HA Design
- Standby HA
- Adding a Second FW to HA
- Verifying HA
- Link Monitoring
- Adding a Third FW to HA
- Active HA

23 FortiGate User Authentication

- Intro to Authentication
- Authentication Overview
- Local Users and Groups
- Adding an LDAP Server
- LDAP Groups
- Passive Authentication with Fortinet Single Sign On (FSSO)
- FSSO Based Groups

24 Troubleshooting FortiGate Firewalls

- Intro to Troubleshooting FortiGate Firewalls
- Troubleshooting Overview
- CLI, Logs, and Other Tools
- Scenario 1 Client to Internet Connectivity
- Scenario 2 Subnet to Subnet Connectivity