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## Course: Fortigate Firewall Training

Duration: 40 Hrs (Changeable) | Fees: Individual / Batch

Since 2007, Nestsoft TechnoMaster has been providing training, internships, and services in IT technologies, both online and offline, with the expertise of **over 250 industry experts**. We have delivered internships, training, and seminars to more than 50,000 students, resulting in numerous success stories. **We offer 100% placement support through JobsNEAR.in**

### Our Courses/Internship

- Python/Django Fullstack
- Artificial Intelligence
- Machine Learning
- Data Science
- Software Testing (All)
- Wordpress, Woocommerce
- Digital Marketing, SEO
- Php/MySQL, Laravel
- Flutter, Android, IOS
- Asp.net MVC
- Web Design, Javascript
- Angular JS, React JS
- CCNA, MCSA, CCNP
- AWS, GCP, Azure
- Odoo, Salesforce, Sap
- Microsoft Excel
- Ethical Hacking



Syllabus on the Next Page ..



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### Module 1: Introduction to FortiGate and Network Security

- \* Overview of Network Security Fundamentals
- \* Firewall types and functions
- \* Threats and mitigation strategies
- \* Introduction to Fortinet and FortiGate
- \* Fortinet Security Fabric
- \* FortiGate models and deployment scenarios
- \* Understanding FortiOS
- \* Key features of FortiOS
- \* Licensing and support


### Module 2: FortiGate Basics


- \* Initial Setup and Configuration
- \* FortiGate hardware setup
- \* Accessing the FortiGate GUI and CLI
- \* Basic network settings and initial configuration
- \* FortiGate Dashboard Overview
- \* System information widgets
- \* Monitoring tools and logs
- \* Interface Configuration
- \* Types of interfaces: physical, VLAN, and virtual
- \* Configuring IP addresses and DHCP

### Module 3: Firewall Policies

- \* Policy Basics

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- \* Understanding security policies
- \* Implicit deny and policy precedence
- \* Creating and Managing Firewall Policies
- \* Traffic inspection
- \* Configuring NAT (SNAT and DNAT)
- \* Logging and monitoring policies

### **Module 4: User Authentication**


- \* Authentication Concepts
- \* Types of authentication: local, RADIUS, LDAP
- \* Single Sign-On (SSO) integration
- \* Configuring User Authentication
- \* Creating user accounts and groups
- \* Enforcing authentication in policies


### **Module 5: Virtual Private Networks (VPNs)**


- \* IPsec VPN Configuration
- \* Site-to-site VPN setup
- \* Remote access VPN
- \* SSL VPN Configuration
- \* Portal customization
- \* Split tunneling
- \* Troubleshooting VPNs


### **Module 6: Advanced Security Features**

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- \* Intrusion Prevention System (IPS)
- \* Understanding signatures and actions
- \* Configuring IPS profiles
- \* Application Control
- \* Identifying and controlling applications
- \* Creating application control policies
- \* Web Filtering
- \* URL filtering and categorization
- \* Configuring and customizing web filter profiles
- \* Antivirus and Antimalware
- \* On-access and on-demand scanning
- \* Configuring antivirus profiles

### **Module 7: High Availability and Scalability**


- \* High Availability (HA)
- \* Active-passive and active-active modes
- \* Configuring HA clusters
- \* Load Balancing
- \* Load balancing concepts and configuration
- \* Monitoring and failover


### **Module 8: Logging and Monitoring**


- \* FortiView and LoggingReal-time traffic analysis
- \* Customizing FortiView dashboardsLog Management

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- \* Configuring log settings and storage
- \* Integrating with FortiAnalyzer
- \* ReportingGenerating custom reports
- \* Scheduling automated reports

## **Module 9: Troubleshooting and Maintenance**


- \* Common Troubleshooting Techniques
- \* Diagnostic tools: ping, traceroute, packet capture
- \* Debugging commands
- \* Firmware Management
- \* Upgrading and downgrading firmware
- \* Managing firmware versions and backups
- \* Backup and Restore
- \* Configuration backup methods
- \* Restoring configurations


## **Module 10: Real-World Deployment Scenarios**

- \* Case Studies
- \* Configuring FortiGate for small to medium businesses
- \* Securing branch offices with FortiGate
- \* Integrating FortiGate with cloud services
- \* Best PracticesSecurity hardening
- \* Regular audits and compliance


## **Module 11: Certification Preparation (Optional)**

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- \* Fortinet NSE 4 Exam Preparation
- \* Exam objectives and study materials
- \* Practice tests and hands-on labs
- \* Additional Certifications
- \* Overview of Fortinet NSE 5-8 certifications

(Click on Course for more details)

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**- Thank You -**

N.B: This syllabus is not final and can be customized as per requirements / updates.

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