

NSE 4 FortiGate Infrastructure 7.0 Course

Course Duration: 16 Hrs.

Course Code: NSE4-FG-INF-7.0

Course Overview

The **NSE 4 FortiGate Infrastructure 7.0** course is designed for network and security professionals who want to gain in-depth knowledge of configuring, managing, and troubleshooting FortiGate infrastructure features using FortiOS 7.0. This course focuses on core networking capabilities such as routing, switching, high availability, SD-WAN, and traffic optimization. Participants will develop the skills needed to deploy FortiGate devices as robust network infrastructure components in enterprise environments and prepare for the NSE 4 certification exam.

What You'll Learn?

By completing this course, you will be able to:

- Understand FortiGate networking architecture and FortiOS 7.0 features
- Configure interfaces, routing, and VLANs
- Implement high availability (HA) and redundancy
- Deploy and manage FortiGate SD-WAN
- Optimize traffic flow and performance
- Monitor and troubleshoot network infrastructure issues

Target Audience

This course is ideal for:

- Network Engineers and Administrators
- Infrastructure and System Engineers

- Security Engineers managing FortiGate devices
- Network Consultants and Integrators
- Professionals preparing for the Fortinet NSE 4 certification

Pre-Requisites

Participants should have:

- Strong understanding of networking fundamentals (TCP/IP, routing, switching)
- Familiarity with FortiGate or firewall concepts
- Prior experience with Fortinet products is helpful but not mandatory

Course Content

Module 1: FortiGate Infrastructure Overview

- FortiGate architecture and deployment options
- FortiOS 7.0 interface and system settings
- Network topology design considerations

Module 2: Interface Configuration and Routing

- Physical and logical interfaces
- Static and dynamic routing (OSPF, BGP overview)
- VLANs and link aggregation

Module 3: High Availability and Redundancy

- HA concepts and deployment modes
- Configuration and failover testing
- Best practices for high availability

Module 4: SD-WAN and Traffic Optimization

- FortiGate SD-WAN concepts
- Performance SLAs and traffic steering
- WAN optimization techniques

Module 5: Network Services and Optimization

- DHCP, DNS, and NTP services
- Traffic shaping and QoS
- Load balancing fundamentals

Module 6: Monitoring, Troubleshooting, and Best Practices

- Network monitoring and diagnostics
- Troubleshooting common infrastructure issues
- Performance tuning and operational best practices