

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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FortiGate Course

Introduction to FortiGate and Fortinet Security Fabric

- Overview of Fortinet and its security solutions
- Introduction to FortiGate firewall appliances
- Key features and benefits of FortiGate
- Understanding the Fortinet Security Fabric architecture

FortiGate Deployment and Architecture

- Deployment scenarios: standalone vs. high availability (HA), virtual vs. physical appliances
- Understanding FortiGate interfaces and zones
- Routing and NAT configurations
- FortiGate licensing and registration

FortiGate Configuration Basics

- Accessing the FortiGate web-based and CLI interfaces
- Initial setup wizard and configuration options
- System settings and administrative tasks
- Backup and restore procedures

Firewall Policies and Access Control

- Understanding firewall policies and security profiles
- Configuring firewall policies for traffic filtering and inspection
- Application control and web filtering policies
- Configuring SSL inspection for encrypted traffic

Virtual Private Networks (VPNs)

- Introduction to VPN technologies (IPsec, SSL VPN)
- Configuring site-to-site VPNs and VPN tunnels
- Remote access VPN configurations
- VPN troubleshooting and monitoring

Intrusion Prevention System (IPS)

- Overview of IPS and threat prevention technologies
- Configuring IPS policies and profiles
- Signature-based vs. anomaly-based detection
- Fine-tuning IPS settings for maximum effectiveness

Advanced Threat Protection

- Introduction to advanced threat protection features (sandboxing, threat intelligence)
- Configuring FortiSandbox integration for threat analysis
- Utilizing FortiGuard services for threat intelligence updates
- Advanced threat protection best practices

Network Address Translation (NAT) and Routing

- Understanding NAT concepts and configurations
- Static and dynamic NAT configurations
- Port forwarding and destination NAT (DNAT)
- Routing protocols and static routing configurations

High Availability and Redundancy

- High availability (HA) deployment options and considerations
- Configuring HA clusters for failover and load balancing
- Active-passive vs. active-active HA configurations
- Monitoring and troubleshooting HA deployments

Logging and Monitoring

- Configuring logging and log settings
- Understanding FortiGate logs and log types
- Log analysis and reporting
- Real-time monitoring and alerting

Authentication and Access Control

- User authentication methods (Local, LDAP, RADIUS, etc.)
- Configuring user authentication and access control policies
- Role-based access control (RBAC) configurations
- Single Sign-On (SSO) integration with authentication services

FortiGate Best Practices and Security Hardening

- Security best practices for FortiGate deployments
- Implementing security hardening measures
- Compliance with industry standards and regulations
- Auditing and vulnerability management

Troubleshooting FortiGate

- Diagnosing common issues and errors
- Troubleshooting network connectivity problems
- Analyzing firewall logs and events
- FortiGate diagnostic tools and commands

Real-world Use Cases and Case Studies

- Examples of FortiGate deployments in different environments
- Case studies showcasing the benefits of FortiGate in network security
- Practical exercises and scenarios for applying FortiGate features

FortiGate Certification Preparation

- Overview of Fortinet certification programs
- Exam preparation tips and resources
- Practice exams and quizzes
- Guidance on scheduling and taking certification exams

Conclusion and Next Steps

- Recap of key concepts covered in the course
- Opportunities for further learning and professional development
- Feedback and course evaluation
- Next steps for implementing FortiGate in your organization