FortiManager Administrator

Duration :

Description

In this course, you will learn the fundamentals of using FortiManager for the centralized network administration of many FortiGate devices.

In interactive labs, you will explore deployment strategies, which include single or multiple ADOMs, device registration, policy packages, shared objects, installing configuration changes, provisioning FortiManager as a local FortiGuard distribution server, and troubleshooting the features that are critical to day-to-day use after you deploy FortiManager.

Who Should Attend

Anyone who is responsible for the day-to-day management of FortiGate security policies using the FortiManager platform should attend this course.

Prerequisites

- Knowledge of firewall concepts in an IPv4 network
- Familiarity with all topics in the FCP - FortiGate Administrator course.
- Basic understanding of network management systems

Agenda

1. Introduction and Initial Configuration
2. Administration and Management
3. Device Registration
4. Device-Level Configuration and Installation
5. Policy and Objects
6. Global ADOM and Central Management
7. Diagnostics and Troubleshooting
8. Additional Configuration

Objectives

After completing this course, you will be able to:

- Describe the key features and capabilities of FortiManager
- Understand FortiManager API and meta fields
- Deploy administrative domains (ADOMs) to support multiple customers on a single FortiManager
- Restrict concurrent ADOM access by using workspaces and workflow mode
- Use provisioning templates for device-level changes across many devices
- Identify the synchronization states and manage the revision history of managed devices
- Manage firewall policies across multiple FortiGate devices using policy packages with shared and dynamic objects
- Deploy policies and objects from the global ADOM to multiple ADOMs
- Understand the Fortinet Security Fabric with FortiManager
- Describe high-availability (HA), backup, and recovery options for FortiManager
- Manage the firmware of supported devices centrally
- Offer a local FortiGuard distribution server to your Fortinet devices
- Diagnose and troubleshoot import and installation issues

System Requirements

If you take the online format of this class, you must use a computer that has the following:

- A high-speed Internet connection
- An up-to-date web browser
- A PDF viewer
- Speakers or headphones
- One of the following:
  - HTML 5 support
  - An up-to-date Java Runtime Environment (JRE) with Java plugin enabled in your web browser

You should use a wired Ethernet connection, not a Wi-Fi connection. Firewalls, including Windows Firewall or FortiClient, must allow connections to the online labs.

FortiGate Administrator

Duration :

Description

In this course, you will learn how to use the most common FortiGate features.

In interactive labs, you will explore firewall policies, user authentication, high availability, SSL VPN, site-to-site IPsec VPN, Fortinet Security Fabric, and how to protect your network using security profiles, such as IPS, antivirus, web filtering, application control, and more. These administration fundamentals will provide you with a solid understanding of how to implement the most common FortiGate features.

Who Should Attend

Networking and security professionals involved in the management, configuration, administration, and monitoring of FortiGate devices used to secure their organizations' networks should attend this course.

You should have a thorough understanding of all the topics covered in the FortiGate Operator course before attending the FortiGate Administrator course.

Prerequisites

- Knowledge of network protocols
- Basic understanding of firewall concepts

Agenda

1. System and Network Settings
2. Firewall Policies and NAT
3. Routing
4. Firewall Authentication
5. Fortinet Single Sign-On (FSSO)
6. Certificate Operations
7. Antivirus
8. Web Filtering

9. Intrusion Prevention and Application Control
10. SSL VPN
11. IPsec VPN
12. SD-WAN Configuration and Monitoring
13. Security Fabric
14. High Availability
15. Diagnostics and Troubleshooting

Objectives

After completing this course, you will be able to:

- Configure FortiGate basic networking from factory default settings
- Configure and control administrator access to FortiGate
- Use the GUI and CLI for administration
- Control network access to configured networks using firewall policies
- Apply port forwarding, source NAT, and destination NAT
- Analyze a FortiGate route table
- Route packets using policy-based and static routes for multi-path and load-balanced deployments
- Configure static routing
- Route packets using static routes for multi-path and loadbalanced deployments
- Authenticate users using LDAP and RADIUS
- Monitor firewall users from the FortiGate GUI
- Offer Fortinet Single Sign-On (FSSO) access to network services, integrated with Microsoft Active Directory (AD)
- Understand encryption functions and certificates
- Inspect SSL/TLS-secured traffic to prevent encryption used to bypass security policies
- Configure security profiles to neutralize threats and misuse, including viruses, torrents, and inappropriate websites
- Apply application control techniques to monitor and control network applications that might use standard or non-standard protocols and ports
- Offer an SSL VPN for secure access to your private network
- Establish an IPsec VPN tunnel between two FortiGate devices
- Configure SD-WAN and verify traffic distribution
- Identify the characteristics of the Fortinet Security Fabric

- Deploy FortiGate devices as an HA cluster for fault tolerance and high performance
- Diagnose and correct common problems

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