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FORTINET FG-200E

Fortinet FortiGate-200E Security Firewall Instruction Manual

Model: FG-200E

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Fortinet FortiGate-200E Security Firewall appliance. The FortiGate-200E is a high-performance network security appliance designed to protect your network from various threats, offering advanced firewall, VPN, and intrusion prevention capabilities. Please read this manual thoroughly before using the device.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent damage to the device and ensure personal safety:

- **Electrical Safety:** Connect the device to a grounded power outlet. Do not use damaged power cords. Ensure the power supply voltage matches the device's requirements.
- **Environmental Conditions:** Operate the device within the specified temperature and humidity ranges. Avoid direct sunlight, excessive heat, and moisture. Ensure adequate ventilation to prevent overheating.
- **Rack Mounting:** When installing in a rack, ensure the rack is stable and can support the device's weight. Follow proper rack mounting procedures to prevent injury or equipment damage.
- **Servicing:** Do not attempt to service the device yourself. Refer all servicing to qualified personnel.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- FortiGate-200E Appliance
- Power Cord
- Rackmount Kit (brackets and screws)
- Quick Start Guide

If any items are missing or damaged, contact your vendor or Fortinet support immediately.

4. PRODUCT OVERVIEW

4.1 Front Panel



Description: This image displays the front panel of the FortiGate-200E, highlighting its various ports and status indicators. From left to right, you can see the Fortinet logo and model name, followed by a series of LED indicators, a USB port, a Console port, two WAN ports, a Management (MGMT) port, a High Availability (HA) port, fourteen RJ45 switch ports, and four SFP slots.

- **LED Indicators:** STATUS, ALARM, HA, POWER. These LEDs provide visual feedback on the device's operational status.
- **USB Port:** For connecting external storage or other USB devices.
- **Console Port:** RJ45 port for direct command-line interface (CLI) access.
- **WAN Ports (2x):** RJ45 Gigabit Ethernet ports for connecting to external networks (e.g., Internet service providers).
- **MGMT Port (1x):** RJ45 Gigabit Ethernet port dedicated for management access.
- **HA Port (1x):** RJ45 Gigabit Ethernet port for High Availability configurations.
- **Switch Ports (14x):** RJ45 Gigabit Ethernet ports for connecting internal network devices.
- **SFP Slots (4x):** Gigabit Ethernet Small Form-Factor Pluggable slots for fiber optic or copper SFP transceivers.

4.2 Rear Panel



Description: This image shows the rear panel of the FortiGate-200E, featuring the power input, cooling vents, and product labels. The AC input is on the right, and a DC input for a remote power supply is visible towards the center-right. Multiple fan vents are present for heat dissipation.

- **AC Input:** Standard IEC C14 power connector for AC power supply (100-240V, 50-60Hz, 3A Max).
- **DC Input:** Connector for an optional remote DC power supply, as specified in the manual.
- **Cooling Fans:** Integrated fans for maintaining optimal operating temperature.

5. SETUP

5.1 Physical Installation

1. **Rack Mounting:** Attach the provided rackmount brackets to the sides of the FortiGate-200E using the included screws. Secure the appliance into a standard 19-inch equipment rack.
2. **Power Connection:** Connect the power cord to the AC input on the rear panel of the device, then plug it into a grounded electrical outlet. The device will power on automatically.
3. **Initial Network Connection:** Connect a management computer to the MGMT port (RJ45) on the front panel using an Ethernet cable.

5.2 Initial Configuration

The FortiGate-200E typically has a default IP address for the MGMT interface (e.g., 192.168.1.99). Configure your management computer's network adapter to be on the same subnet.

1. **Access Web-based Manager:** Open a web browser on your management computer and navigate to the default IP address of the FortiGate (e.g., <https://192.168.1.99>).
2. **Login:** Use the default username (e.g., admin) and a blank password (or default password if specified in the Quick

Start Guide) to log in.

3. **Change Default Credentials:** For security, immediately change the default administrator password upon first login.
4. **Basic Network Setup:** Configure WAN and internal network interfaces according to your network requirements.

6. OPERATING

6.1 LED Indicator Meanings

- **POWER LED:** Solid Green indicates the device is powered on. Off indicates no power.
- **STATUS LED:** Solid Green indicates normal operation. Blinking Green indicates activity. Red indicates a system error.
- **ALARM LED:** Red indicates a critical system alarm (e.g., fan failure, high temperature).
- **HA LED:** Indicates the High Availability status (e.g., master, slave, or standalone). Refer to the FortiGate documentation for specific HA LED patterns.

6.2 Basic Operation

Once configured, the FortiGate-200E operates as a network security gateway, inspecting and routing traffic based on defined policies. It provides real-time threat protection, VPN connectivity, and network segmentation. Monitor the device's status through the web-based manager or CLI.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your FortiGate-200E.

- **Firmware Updates:** Regularly check for and apply the latest firmware updates from Fortinet to ensure security patches and new features are installed.
- **Configuration Backup:** Periodically back up your device configuration. This allows for quick restoration in case of a system failure or misconfiguration.
- **Cleaning:** Keep the device and its ventilation openings free from dust. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.
- **Environmental Monitoring:** Ensure the operating environment remains within specified temperature and humidity limits.

8. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Device does not power on	No power, faulty power cord, power supply issue	Check power cable connection, verify power outlet, try a different power cord.
Cannot access web-based manager	Incorrect IP address, network connectivity issue, browser settings	Verify management computer's IP address is on the same subnet as the FortiGate's MGMT interface. Check cable connection. Try a different browser.
Forgot login password	Password lost or forgotten	Refer to Fortinet documentation for password recovery procedures, which typically involve console access and a factory reset if necessary.

Problem	Possible Cause	Solution
Network connectivity issues	Incorrect port configuration, faulty cables, firewall policies blocking traffic	Check cable connections, verify interface status, review firewall policies and routing tables.

9. SPECIFICATIONS

Key technical specifications for the FortiGate-200E:

Feature	Detail
Model Name	FG-200E
Product Dimensions	11.85 x 17.01 x 1.73 inches
Item Weight	9.98 pounds
Number of Ports	18 (RJ45) + 4 (SFP)
LAN Port Bandwidth	1000 Mbps
Maximum Upstream Data Transfer Rate	250 Megabits Per Second
Connectivity Technology	SFP, Ethernet
Compatible Devices	Laptop, Personal Computer, Smartphone, Tablet
Manufacturer	FORTINET

10. WARRANTY AND SUPPORT

The FortiGate-200E is covered by a manufacturer's limited warranty. For detailed warranty terms and conditions, please refer to the warranty information provided with your product or visit the official Fortinet website.

For technical support, product registration, and access to documentation and software downloads, please visit the Fortinet Support website or contact your authorized Fortinet reseller.