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Fortinet FG-400E

Fortinet FortiGate 400E Firewall Instruction Manual

Model: FG-400E

1. Product Overview

The Fortinet FortiGate 400E is a high-performance next-generation firewall (NGFW) designed for enterprise branch and campus environments. It provides advanced threat protection, secure SD-WAN capabilities, and robust network security features. This manual provides essential information for the installation, operation, and maintenance of your FortiGate 400E device.

Front Panel Layout

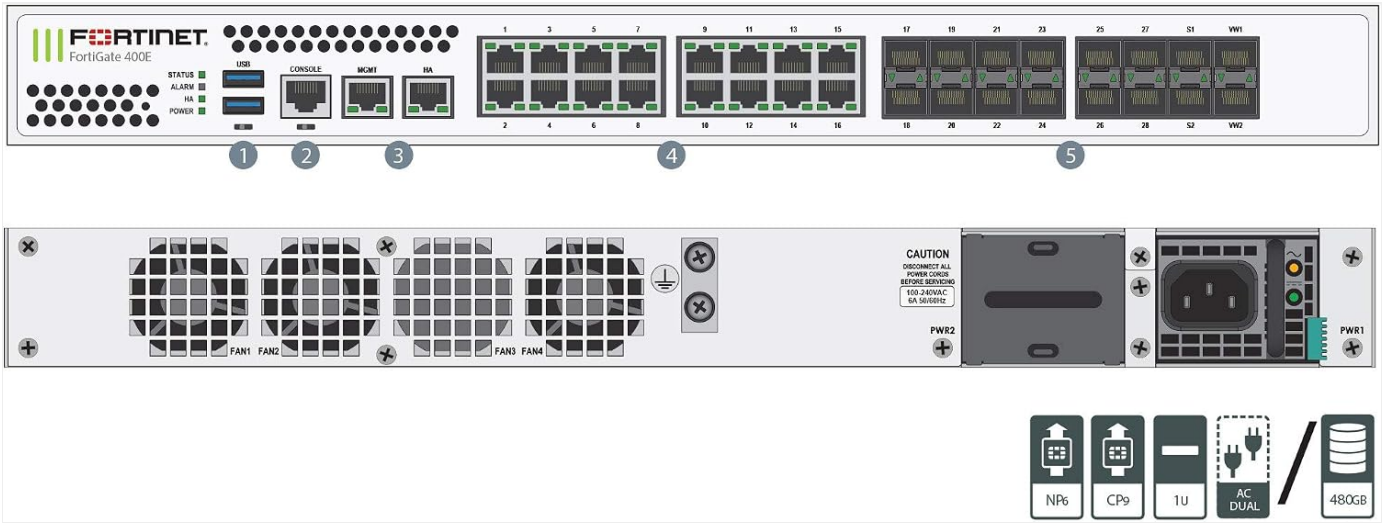

Figure 1: FortiGate 400E Front Panel

1. **Status Indicators:** LEDs for power, system status, and alarm.
2. **Management Ports:** USB, Console (RJ-45), and Management (MGMT) ports for initial configuration and local access.
3. **WAN Ports:** Dedicated ports for Wide Area Network connectivity.
4. **GE RJ45 Ports:** Gigabit Ethernet RJ45 ports for network connections.
5. **SFP/SFP+ Ports:** High-speed Small Form-Factor Pluggable ports for fiber or copper connections.

Rear Panel Layout

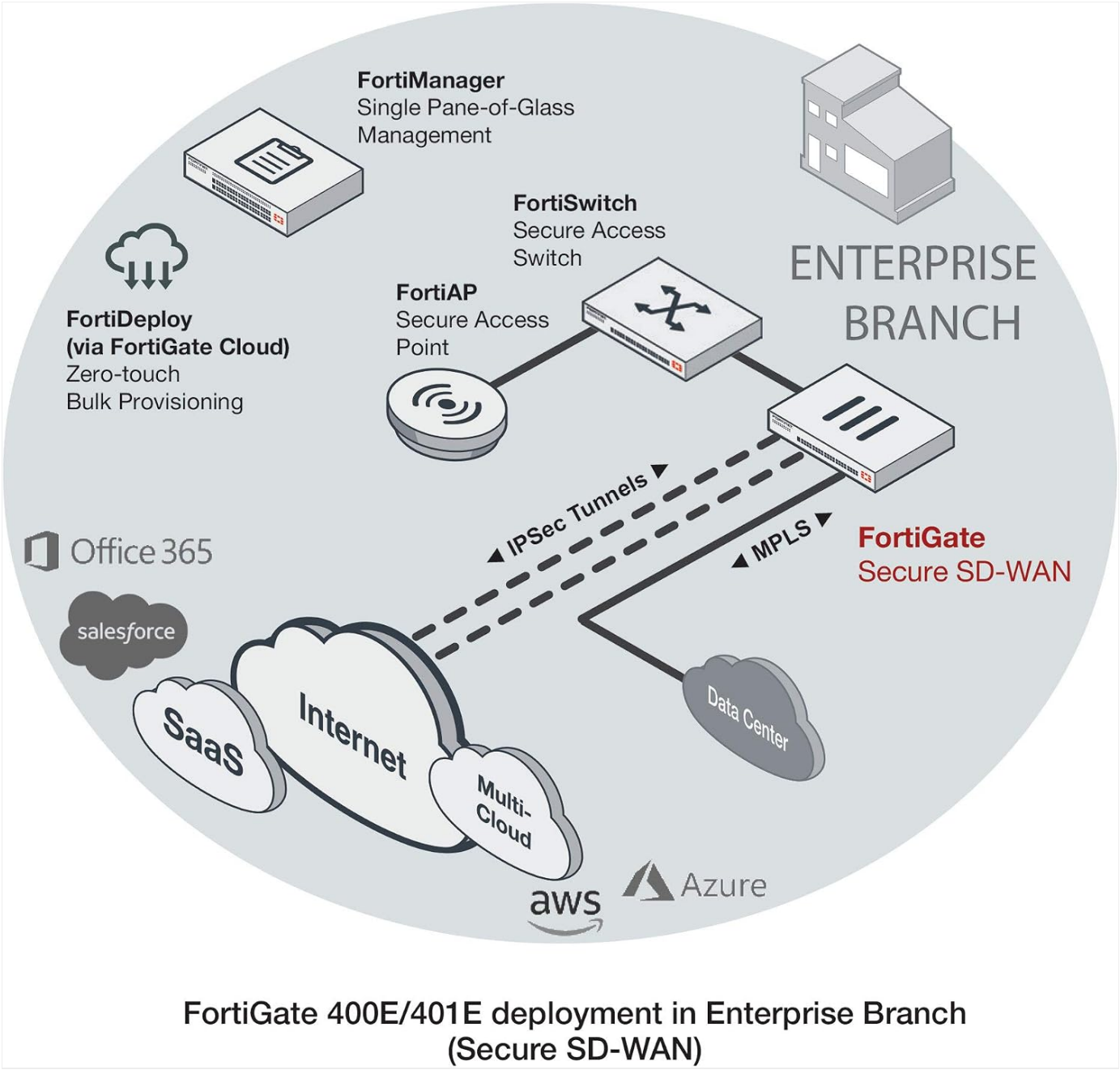

Figure 2: FortiGate 400E Rear Panel

1. **Cooling Fans:** Multiple fans (FAN1-FAN4) for system cooling.
2. **Grounding Point:** For proper electrical grounding.
3. **Power Supply Units (PSU):** Dual redundant power supply bays (PWR1, PWR2) for high availability.

2. Initial Setup

Follow these steps to set up your FortiGate 400E device.

2.1 Unpacking and Inspection

- Carefully remove the FortiGate 400E from its packaging.
- Inspect the device for any signs of physical damage. If damage is found, contact your vendor immediately.
- Verify that all components listed in the packing slip are present. The box should contain the FortiGate 400E unit, power cables, and a quick start guide.

2.2 Rack Mounting (Optional)

The FortiGate 400E is designed for rack installation. Use the provided rack-mount kit (if included) to secure the device in a standard 19-inch equipment rack.

- Attach the rack-mount ears to the sides of the FortiGate unit using the screws provided.
- Secure the FortiGate unit into the rack using appropriate rack screws.
- Ensure adequate airflow around the device for proper cooling.

2.3 Connecting Power

The FortiGate 400E supports dual redundant power supplies.

- Connect the power cables to the power supply units (PWR1 and PWR2) on the rear panel (refer to Figure 2).
- Plug the other end of the power cables into grounded electrical outlets.
- The device will power on automatically. Observe the Power LED on the front panel (Figure 1) to confirm it is illuminated.

2.4 Initial Network Connection

For initial configuration, connect a management workstation to the device.

- **Console Connection:** Connect a serial cable from your workstation to the Console port (RJ-45) on the front panel (Figure 1). Configure your terminal emulator (e.g., PuTTY) with settings: 9600 baud, 8 data bits, no parity, 1 stop bit, no flow control.
- **Management Port (MGMT):** Alternatively, connect an Ethernet cable from your workstation to the MGMT port on the front panel (Figure 1). The default IP address for the MGMT interface is typically 192.168.1.99. Configure your workstation's IP address to be in the same subnet (e.g., 192.168.1.100).

Once connected, you can access the FortiGate CLI via the console or the web-based manager via the MGMT port.

3. Operation

The FortiGate 400E operates on FortiOS, Fortinet's proprietary operating system, providing a comprehensive suite of security and networking features.

3.1 FortiOS Management

- **Web-based Manager:** Access the graphical user interface (GUI) by navigating to the FortiGate's IP address in a web browser (e.g., https://192.168.1.99). The default username is "admin" with no password.
- **Command Line Interface (CLI):** Access via the console port or SSH for advanced configuration and troubleshooting.

3.2 Key Features and Deployment Scenarios

The FortiGate 400E supports various deployment scenarios, including Secure SD-WAN and Next-Generation Firewall (NGFW) for campus and enterprise branch networks.

Enterprise Branch Deployment (Secure SD-WAN)

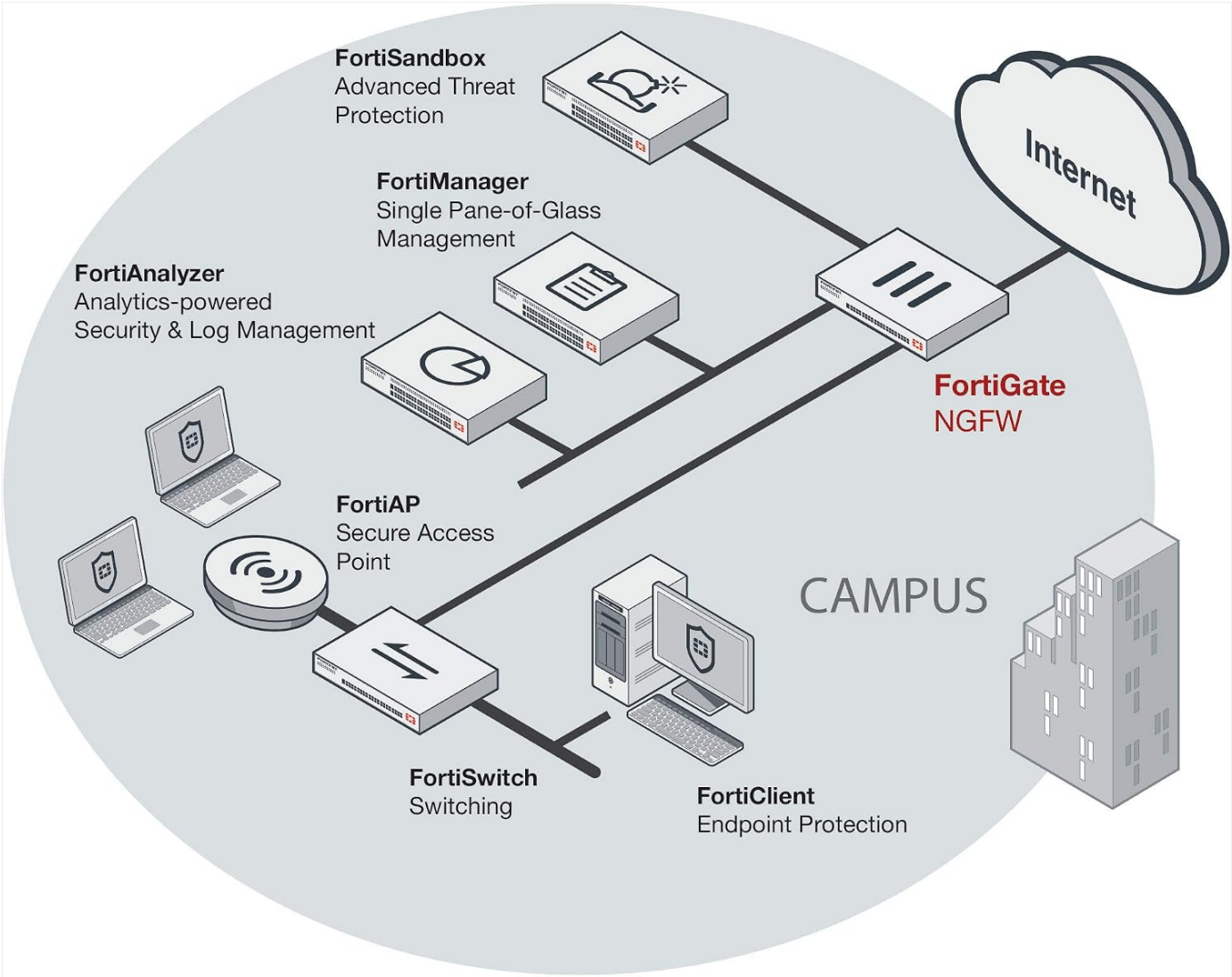

Figure 3: FortiGate 400E/401E Secure SD-WAN Deployment

In an enterprise branch deployment, the FortiGate 400E acts as a Secure SD-WAN device, integrating with FortiManager for single-pane-of-glass management, FortiSwitch for secure access switching, and FortiAP for secure wireless access points. It facilitates secure connectivity to SaaS applications (e.g., Office 365, Salesforce), multi-cloud environments (AWS, Azure), and data centers via IPsec Tunnels and MPLS.

Campus Deployment (NGFW)

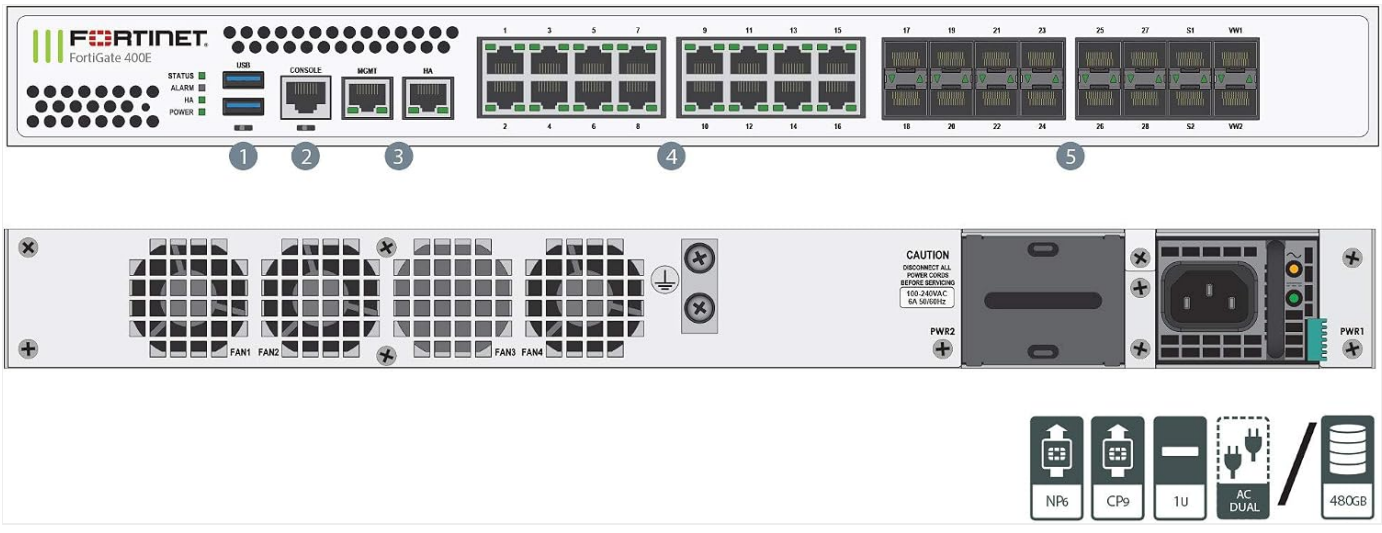

Figure 4: FortiGate 400E/401E Campus NGFW Deployment

For campus environments, the FortiGate 400E functions as a Next-Generation Firewall (NGFW), providing advanced threat protection through integration with FortiSandbox and FortiAnalyzer for analytics and log management. It secures endpoints with FortiClient and integrates with FortiSwitch for network switching and FortiAP for wireless access, all managed centrally by FortiManager.

4. Maintenance

Regular maintenance ensures optimal performance and longevity of your FortiGate 400E.

- **Firmware Updates:** Regularly check for and apply the latest FortiOS firmware updates to benefit from new features, security patches, and performance improvements.
- **Configuration Backups:** Periodically back up your device configuration. This is crucial for disaster recovery.
- **Monitoring:** Monitor system logs, resource utilization (CPU, memory), and network traffic through the FortiGate GUI or FortiAnalyzer.
- **Physical Inspection:** Ensure proper ventilation and keep the device free from dust. Check cable connections periodically.
- **Power Supply Redundancy:** Verify that both power supply units are functioning correctly if dual PSUs are installed.

5. Troubleshooting

This section provides basic troubleshooting steps for common issues.

5.1 Device Not Powering On

- Verify that power cables are securely connected to both the device and the power outlet.
- Check the power outlets with another device to ensure they are functional.
- If using dual power supplies, try connecting only one at a time to isolate a potential faulty PSU.
- Ensure the Power LED on the front panel is illuminated.

5.2 Cannot Access Web-based Manager

- Confirm your workstation's IP address is in the same subnet as the FortiGate's management interface (default 192.168.1.99).
- Ensure the Ethernet cable is properly connected to the MGMT port.
- Try accessing the CLI via the console port to check the interface configuration and status.
- Clear your browser's cache or try a different browser.

5.3 Network Connectivity Issues

- Check physical cable connections for all network interfaces.
- Verify interface status and configuration in FortiOS (GUI or CLI).
- Review firewall policies to ensure traffic is permitted as expected.
- Use diagnostic tools like ping, traceroute, and diagnose sniffer packet from the CLI.

6. Technical Specifications

Feature	Specification
Model	FG-400E

Feature	Specification
Firewall Throughput	24000 Mbit/s
VPN Throughput	20000 Mbit/s
IPS/IDS Throughput	7800 Mbit/s
Heat Dissipation	730 BTU/h
Security Algorithms	AES 256-bit, SSL/TLS
Management Platform	FortiOS
Connectivity Technology	Wired
Console Port	RJ-45
Number of Ports	18
Product Weight	9.07 kg (20 lbs)
Manufacturer	Fortinet
Country of Origin	China
UPC	842382125250

7. Warranty and Support

7.1 Product Warranty

The Fortinet FortiGate 400E comes with a**2-year product warranty**. Please retain your proof of purchase for warranty claims.

Important Note on Registration: For refurbished devices, prior registration with the manufacturer may limit the possibility of re-registration in the cloud, as well as the use of support and licensing services. If you have any questions regarding device usage, please contact your vendor or Fortinet support for clarification.

7.2 Technical Support

For technical assistance, documentation, and software downloads, please visit the official Fortinet support website:

- **Fortinet Support Portal:** https://support.fortinet.com
- **Fortinet Documentation:** https://docs.fortinet.com

When contacting support, have your device's serial number and a detailed description of the issue ready.

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and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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