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FORTINET FG-70G-BDL-950-12

Fortinet FortiGate-70G Firewall Instruction Manual

Model: FG-70G-BDL-950-12

INTRODUCTION

The Fortinet FortiGate-70G is a compact network firewall designed for branch and small office environments. It integrates firewalling and SD-WAN capabilities, powered by Fortinet's FortiGuard AI-Powered Unified Threat Protection services. This manual provides essential information for the proper setup, operation, and maintenance of your FortiGate-70G device.

SETUP

Package Contents

Verify that all components are present in the package:

- FortiGate-70G Appliance
- Power Adapter
- Ethernet Cable
- Quick Start Guide

Physical Installation

The FortiGate-70G features a desktop form factor and can also be wall-mounted. Ensure proper ventilation and a stable surface for installation.



Image: Front and rear view of the FortiGate-70G appliance, highlighting the 10 GE RJ45 ports, console, and USB ports. This image illustrates the physical layout of the device and its connectivity options.

1. **Connect Power:** Connect the power adapter to the DC+12V port on the device and then to a power outlet.
2. **Connect Network Cables:**
 - Connect your internet service provider's modem to one of the WAN ports (WAN1 or WAN2).
 - Connect your internal network devices (switches, computers) to the internal GE RJ45 ports (labeled 1-7).
 - The DMZ port can be used for a demilitarized zone network segment.
3. **Console Connection (Optional):** For initial setup or advanced configuration, connect a console cable to the CONSOLE port and your computer.
4. **USB Port:** The USB port can be used for FortiExplorer for initial setup.



Image: An angled view of the FortiGate-70G, showing its compact design and ventilation. This image provides a general perspective of the device's physical appearance.

OPERATING INSTRUCTIONS

Initial Configuration

The FortiGate-70G can be configured via the web-based manager, CLI (Command Line Interface) through the console port, or using FortiExplorer via the USB port or Bluetooth.

1. **Power On:** After connecting all necessary cables, ensure the device powers on. Observe the status LEDs.
2. **Accessing the Web-based Manager:**
 - Connect a computer directly to an internal port (e.g., port 1) of the FortiGate-70G.
 - Configure your computer's network adapter to obtain an IP address automatically (DHCP).
 - Open a web browser and navigate to the default IP address (e.g., <https://192.168.1.99>).
 - Log in with the default username (admin) and no password. You will be prompted to create a new password.
3. **Zero-Touch Deployment:** For simplified onboarding, the device supports zero-touch deployment. Refer to the Fortinet documentation for detailed instructions on using FortiExplorer or FortiManager for this process.

Key Features Overview

- **Firewalling:** Stateful inspection firewall for network traffic control.
- **SD-WAN:** Software-Defined Wide Area Network capabilities for optimized WAN performance and cost savings.
- **Unified Threat Protection (UTP):** Includes AI-powered services like IPS, Anti-Malware, Web Filtering, and Application Control.
- **Security Processor (SP5):** Fortinet's custom ASIC for accelerated security performance.

MAINTENANCE

Firmware Updates

Regularly update the FortiGate firmware to ensure optimal performance, security, and access to new features. Firmware updates can be performed via the web-based manager or CLI.

- Download the latest firmware from the Fortinet Support website.
- Follow the instructions provided with the firmware release notes for the update process.

Configuration Backup and Restore

It is recommended to regularly back up your device configuration. This allows for quick recovery in case of misconfiguration or hardware failure.

- Access the web-based manager.
- Navigate to the System section to find backup and restore options.
- Store backup files in a secure, off-device location.

Physical Cleaning

Keep the device free from dust and obstructions to ensure proper airflow and prevent overheating. Use a soft, dry cloth for cleaning. Do not use liquid cleaners directly on the device.

TROUBLESHOOTING

Common Issues and Solutions

- **Device not powering on:**

- Check power cable connections.
- Verify the power outlet is functional.
- Ensure the power adapter is correctly connected.

- **Cannot access web-based manager:**

- Verify network cable connections to the internal ports.
- Ensure your computer's IP settings are correct (DHCP or static IP in the same subnet as the FortiGate's internal interface).
- Try pinging the FortiGate's default IP address (192.168.1.99).
- Clear browser cache or try a different browser.

- **No internet connectivity:**

- Check WAN port connection to the modem/ISP device.
- Verify ISP service status.
- Check FortiGate WAN interface configuration (IP address, gateway, DNS).
- Review firewall policies to ensure traffic is allowed.

- **Slow performance:**

- Check network utilization on the FortiGate.
- Ensure firmware is up to date.
- Review security profiles and policies for potential bottlenecks.
- Consider the number of active sessions and users.

For more advanced troubleshooting, consult the Fortinet documentation or contact technical support.

SPECIFICATIONS

FortiGate-70G Key Specifications

Feature	Value
Brand	FORTINET
Model Name	FortiGate70G Network Firewall with 1-year UTP Security Service Bundle
Model Number	FG-70G-BDL-950-12
Special Feature	Internet Security, SD-WAN, Firewalling
Connectivity Technology	Ethernet
Number of Ports	10 x GE RJ45 ports (7 Internal, 2 WAN, 1 DMZ)
IPS Throughput	2.5 Gbps
Threat Protection Throughput	1.3 Gbps
SSL Inspection Throughput	1.4 Gbps
Firewall Throughput (UDP)	10/10/10 Gbps (1518/512/64 byte)
Firewall Throughput (PPS)	15 Mpps
IPsec VPN Throughput	7.1 Gbps (512 byte)
Item Weight	4 Pounds
Operating System	FortiOS
Security Processor	FortiSPU-SP5

FortiGate 70G Specifications

IPS Throughput	2.5 Gbps
NGFW Throughput	1.5 Gbps
Threat Protection Throughput	1.3 Gbps
Firewall Throughput (1518 / 512 / 64 byte UDP packets)	10/10/10 Gbps
Firewall Throughput (Packets Per Second)	15 Mpps
IPsec VPN Throughput (512 byte)	7.1 Gbps

Image: A table detailing FortiGate 70G specifications, including IPS Throughput, NGFW Throughput, Threat Protection Throughput, Firewall Throughput, and IPsec VPN Throughput. This image visually confirms the performance metrics of the device.



Image: A graphic displaying the height, width, length, and weight of the FortiGate-70G. This image provides physical dimensions for installation planning.

WARRANTY

The Fortinet FortiGate-70G comes with a standard manufacturer's warranty. For specific details regarding warranty coverage, duration, and terms, please refer to the warranty card included with your product or visit the official Fortinet website. This product includes 1-Year FortiGuard AI-Powered Unified Threat Protection Services.

SUPPORT

For technical assistance, product documentation, and software downloads, please visit the official Fortinet Support website. You can also contact Fortinet technical support directly for advanced troubleshooting and service requests.

- **Fortinet Support Website:** <https://www.fortinet.com/support>
- **Online Documentation:** Access comprehensive guides and knowledge base articles.
- **Community Forums:** Engage with other Fortinet users and experts.

PRODUCT OVERVIEW VIDEO

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Video: An official product video from Fortinet titled "FortiGate G Series - Next Generation Firewalls". This video provides an overview of the FortiGate G Series, including the FortiGate-70G, highlighting its features, connectivity options, and the FortiSPU-SP5 processor for enhanced security performance.