

FortiGate 60F Setup Guide (Basic Home Network Setup)

This guide will help you configure your FortiGate 60F with the following features:

- **Three VLANs:** Home, Guest, and IoT
- **Firewall Rules:** Optimized for streaming and gaming
- **Traffic Prioritization:** Using Quality of Service (QoS)

Prerequisites

1. **FortiGate 60F:** Ensure your FortiGate device is powered on and connected to your network.
2. **Access to FortiGate Management Interface:** Use a web browser to access the FortiGate interface at `http://<FortiGate-IP>`.
3. **Basic Network Setup:** Have an existing internet connection and basic knowledge of network configurations.

Step-by-Step Setup

Step 1: Access FortiGate Management Interface

1. **Open a web browser** and navigate to the FortiGate's IP address.
2. **Log in** using your admin credentials. The default username is `admin`, and there is no password initially (change this immediately for security).

Step 2: Configure VLANs

1. **Navigate to:** `Network > Interfaces`.
2. **Create VLANs** for Home, Guest, and IoT.

Home VLAN

- **Interface Name:** `VLAN_Home`
- **VLAN ID:** `10`
- **Interface:** Select the physical interface (e.g., `port1`) to assign the VLAN.
- **IP/Netmask:** `192.168.10.1/24`

Guest VLAN

- **Interface Name:** VLAN_Guest
- **VLAN ID:** 20
- **Interface:** Select the physical interface (e.g.,) to assign the VLAN.
- **IP/Netmask:**

IoT VLAN

- **Interface Name:** VLAN_IoT
- **VLAN ID:** 30
- **Interface:** Select the physical interface (e.g.,) to assign the VLAN.
- **IP/Netmask:**

Step 3: Configure DHCP for Each VLAN

1. **Navigate to:** .
2. **Create DHCP servers** for each VLAN.

Home VLAN DHCP

- **Interface:** VLAN_Home
- **IP Range:**

Guest VLAN DHCP

- **Interface:** VLAN_Guest
- **IP Range:**

IoT VLAN DHCP

- **Interface:** VLAN_IoT
- **IP Range:**

Step 4: Configure Security Policies

1. **Navigate to:** .
2. **Create policies** to manage traffic between zones.

Allow Traffic from Home to Internet

- **Name:** Allow_Home_to_Internet
- **Incoming Interface:** VLAN_Home
- **Outgoing Interface:** WAN
- **Source:** All
- **Destination:** All
- **Action:** Accept

Allow Traffic from Guest to Internet

- **Name:** Allow_Guest_to_Internet
- **Incoming Interface:** VLAN_Guest
- **Outgoing Interface:** WAN
- **Source:** All
- **Destination:** All
- **Action:** Accept

Allow Traffic from IoT to Internet

- **Name:** Allow_IoT_to_Internet
- **Incoming Interface:** VLAN_IoT
- **Outgoing Interface:** WAN
- **Source:** All
- **Destination:** All
- **Action:** Accept

Deny Traffic Between VLANs

- **Name:** Deny_InterVLAN
- **Incoming Interface:** VLAN_Home, VLAN_Guest, VLAN_IoT
- **Outgoing Interface:** VLAN_Home, VLAN_Guest, VLAN_IoT
- **Source:** All
- **Destination:** All
- **Action:** Deny

Step 5: Configure Traffic Prioritization (QoS)

1. **Navigate to:** `Policy & Objects > Traffic Shapers`.
2. **Create traffic shapers** to prioritize gaming and streaming traffic.

Create Traffic Shapers for Gaming and Streaming

- **Name:** Priority_Gaming
 - **Priority:** High
 - **Traffic Type:** Custom
 - **Bandwidth:** Define based on gaming traffic requirements
 - **Name:** Priority_Streaming
 - **Priority:** Medium
 - **Traffic Type:** Custom
 - **Bandwidth:** Define based on streaming traffic requirements
3. **Apply Traffic Shapers** to the relevant policies by editing the policies and assigning the appropriate traffic shaper.

Step 6: Test Configuration

1. **Verify device connectivity** on each VLAN.
2. **Test internet access** from each VLAN to ensure policies are correctly applied.
3. **Monitor traffic** to ensure streaming and gaming traffic are prioritized as expected.

Additional Tips

- **Secure Access:** Change the default admin password and enable HTTPS access only.
- **Regular Backups:** Regularly backup your configuration to prevent data loss.
- **Firmware Updates:** Keep your FortiGate firmware updated for the latest features and security patches.

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