

# Step-by-Step FortiGate 60E Firewall Setup via CLI

This will cover initial setup, interface configuration, setting up admin access, and basic network settings.

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## What You'll Need:

- Console cable (RJ45 to USB or DB9) (note: you can use the E103 Lab desktop PC)
  - Terminal software (like PuTTY, Tera Term, or macOS/Linux terminal)
  - FortiGate 60E powered on and connected to your PC via the console port
  - Default credentials:
    - **Username:** admin
    - **Password:** *(leave blank, just press Enter on first login)*
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## Step-by-Step FortiGate 60E CLI Setup

### 1. Connect to the Console Port

- Open your terminal program.
- Choose the right COM port and set:
  - Baud rate: 9600
  - Data bits: 8
  - Stop bits: 1
  - Parity: None
  - Flow control: None

### 2. Log In

You'll see a login prompt:

login: admin

Password:

- Leave the password blank (default), hit **Enter**.
- You'll be prompted to change the password.

New password: *password*

Confirm password: *password*

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### 3. Configure the Internal Interface (LAN)

Assign an IP to internal interface (e.g., 192.168.1.99/24):

```
config system interface
```

```
edit "internal"
```

```
set ip 192.168.1.99 255.255.255.0
```

```
set allowaccess ping https ssh http fgfm (note: fgfm enables FortiManager to manage a FortiGate device. )
```

```
set alias "LAN"
```

```
next
```

```
end
```

allowaccess defines what services are available on the interface (e.g., HTTPS, SSH).

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### 4. Configure the WAN Interface with a static IP

```
config system interface
```

```
edit "wan1"
```

```
set mode static
```

```
set ip 203.0.113.2 255.255.255.0
```

```
set allowaccess ping
```

```
set alias "WAN"
```

```
next
```

```
end
```

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### 5. Set a Default Route

Set the default gateway (usually provided by ISP):

```
config router static
```

```
edit 1
```

```
set device "wan1"
```

```
set gateway 203.0.113.1
```

```
next
```

```
end
```

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## 6. Configure DNS

```
config system dns
set primary 8.8.8.8
set secondary 8.8.4.4
end
```

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## 7. Configure the Admin Account

(Optional) Change or add admin users:

```
config system admin
edit admin
set password asecurepassword
next
end
```

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## 8. Create Basic Firewall Policy (Allow LAN to WAN)

```
config firewall policy
edit 1
set name "LAN-to-WAN"
set srcintf "internal"
set dstintf "wan1"
set srcaddr "all"
set dstaddr "all"
set action accept
set schedule "always"
set service "ALL"
set nat enable
next
end
```

## 9. Save the Configuration

FortiGate auto-saves, but you can force it:

execute config-save

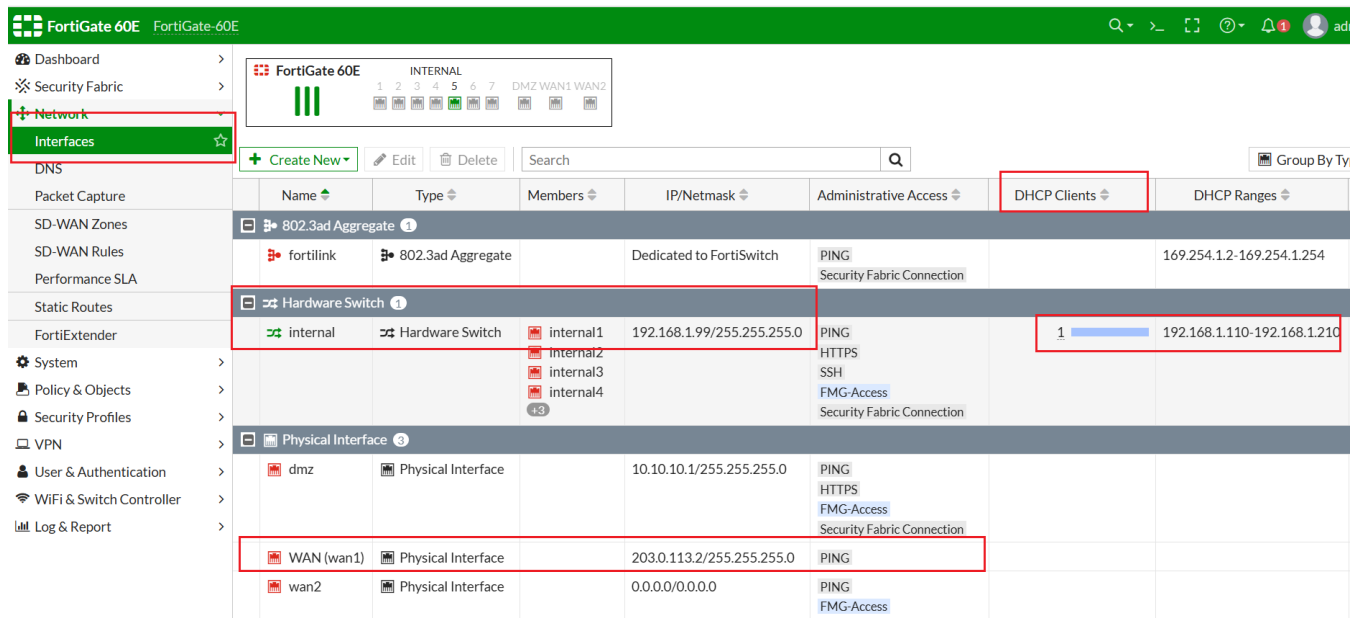
 **Done!**

You should now be able to:

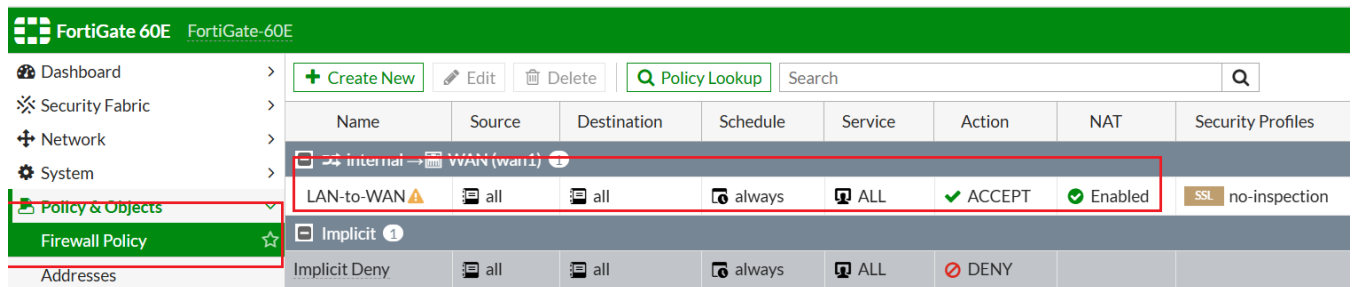
- Access the GUI by browsing to <https://192.168.1.99> from a device on the internal network
- Simulate reaching the internet (ping the WAN interface 203.0.113.2)
- Manage the device via SSH/HTTPS

Required GUI Screenshots (4): Interfaces, Static Routes, DNS and the Firewall Policy:

Submit as individual (png/jpg) screenshots or posted in a single PDF file. See samples below:



Name	Type	Members	IP/Netmask	Administrative Access	DHCP Clients	DHCP Ranges
802.3ad Aggregate						
fortilink	802.3ad Aggregate		Dedicated to FortiSwitch	PING Security Fabric Connection		169.254.1.2-169.254.1.254
Hardware Switch						
internal	Hardware Switch	internal1 internal2 internal3 internal4	192.168.1.99/255.255.255.0	PING HTTPS SSH FMG-Access Security Fabric Connection	1	192.168.1.110-192.168.1.210
Physical Interface						
dmz	Physical Interface		10.10.10.1/255.255.255.0	PING HTTPS FMG-Access Security Fabric Connection		
WAN (wan1)	Physical Interface		203.0.113.2/255.255.255.0	PING		
wan2	Physical Interface		0.0.0.0/0.0.0.0	PING FMG-Access		



Name	Source	Destination	Schedule	Service	Action	NAT	Security Profiles
LAN-to-WAN	all	all	always	ALL	ACCEPT	Enabled	ssl no-inspection
Implicit							
Implicit Deny	all	all	always	ALL	DENY		

## **Option 1: Reset from CLI without full format**

This is the standard factory reset, keeping firmware but erasing all configuration.

### **1. Connect via Console:**

- Use a console cable and connect to the FortiGate via a terminal (like PuTTY or Tera Term).
- Baud rate: **9600**.

### **2. Login to CLI:**

- Use your **admin** credentials.

### **3. Run the factory reset command:**

execute factoryreset

- This will prompt you to confirm.
- Type y to proceed.

### **4. Wait for the device to reboot.**