
How to setup an eFive

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eFive Step 1, Initial Connection:

- Power on the eFive and connect port 1 to a switch.
- The eFive should by default be **10.0.0.153** with username: **admin** and the password: **admin**
- Make sure that your PC has an ethernet cable connected to the switch and set the IP address of your PC to be in the range of **10.0.0.xxx**

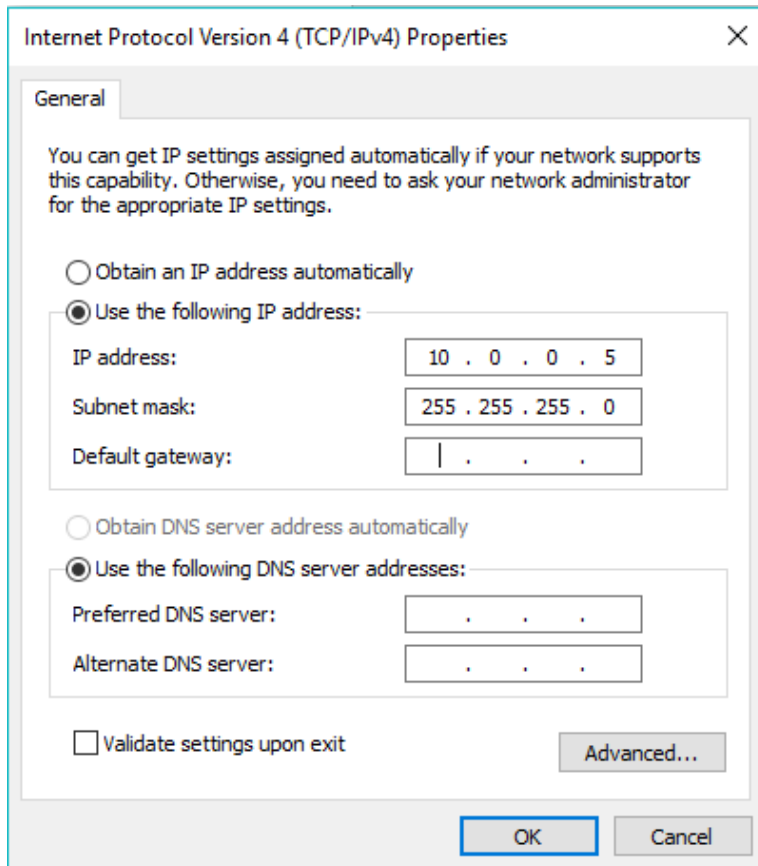


Figure 1: LAN network example on PC

note: If you find that your device has an unknown IP address or User/Password you can reset the device to factory settings by following the steps in appendix one of the following document:

https://websupport.ewon.biz/sites/default/files/iq-012-0-en_efive_25.pdf

eFive, Step 2 System Settings:

- Open the eFive webpage on your browser by entering the **10.0.0.153** address into the URL

- Go to **System > Date/Time** and set your date and time zone. From here you can also choose if you want to enable an NTP server for your eWON devices to use. You can also choose if you only want to use the eFive local clock.

Settings:

NTP Server:

RUNNING

Enable NTP server:

☒

Use only eFive local clock

☐

Primary NTP Server:

server0.pool.ntp.org

Secondary NTP Server:

server1.pool.ntp.org

Tertiary NTP Server:

server2.pool.ntp.org

This field may be blank.

Update the time:

Time:

Year: 2019

Month: 01

Day: 18

Hours: 11

Minutes: 51

TimeZone: America/New_York

Figure 2: Time settings/NTP server

eFive, Step 3 Network Settings:

- Connect a cable with access to an Internet router to a second switch. Then take another cable from that switch and connect it to port 2 of the eFive.
- Go to **Network > Interfaces** and start by setting the **LAN** address that you would like to use for the eFive
- If you know all your **WAN** information, you can set the Interface type to **Static** and enter your IP address and Network mask. You will also need to enter your DNS1, DNS2, and Default gateway. Make sure that you set up a Port Forwarding rule where you enter the WAN IP. This can also be done by using **DHCP** if the network supports it.

Interfaces

General settings:

Hostname:

efive

Domainname:

DNS1:

10.10.35.3

DNS2:

10.101.24.14

Default gateway:

10.10.35.1

lan - trusted internal network segment

IP address:

192.168.5.27

Network mask:

255.255.255.0

wan - untrusted internet network segment

Interface type:

DHCP

IP address:

10.10.35.115

Network mask:

255.255.255.0

dmz - network segment for servers accessible from internet

IP address:

Network mask:

wlan - network segment for servers accessible fro WIFI

IP address:

Network mask:

Figure 3: Network Interface example

eFive Step 4, VPN:

- Go to **VPN > Basic Settings** and here you'll create the Dynamic IP pool range. This will give you a range for eWON devices connecting. For example. If you want to connect 6 devices you could set the range from 192.168.5.20 to 192.168.5.25

RUNNING Stop OpenVPN Server Restart OpenVPN Server

192.168.5.20 Dynamic IP pool end address: 192.168.5.25

part of the eFive LAN network. Make sure that the selected IP range is not overlapping the IP range specified for the DHCP server of the LAN network.

Save

[Connection status and control](#)

Figure 4: VPN Pool Example

- Make sure that you hit **Save** and then **Restart OpenVPN Server**.
- Next go to **VPN > Accounts** and go to Add user/device account. Make sure to give unique User/Device names.

Edit user/device

Account information

User/Device name:

Password:

Verify password:

Static ip:

Client routing:

Don't push any routes to client: ☒

Networks behind client:

Push only these networks:

Save account

! Specify here optionnaly an IP address which makes part of the eFive LAN network. Make sure it is not overlapping the VPN Dynamic pool.

! Use CIDR network notation. Example: 192.168.1.0/24. Use one line per network.

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Figure 5: For this device, we're just going to call it Cosy and give it the password cosy. We're also setting the network that will be accessible through the eWON device through here. So, with a 192.168.0.0/24

we will be able to access anything in the 192.168.0.xxx range. Make sure to set each eWON you connect for a different IP range ie: 192.168.1.0, 172.168.2.0, etc.

- Go to **VPN > CA** and click download certificate for the CA Certification. Open this file in **Notepad** and set it aside for now.

One last thing that we'll need to do is go into the **VPN > Advanced Settings** and select the **check the Allow traffic between clients** button.

Flexy Step 1, Initial Setup:

- Go to your Flexy's homepage and go to **Wizards** in the top right corner. From there go through the **System, Internet**, wizards.
- When you go through the Internet Wizard, make sure that your **WAN** Ip address is in the same range as the eFive's

The screenshot displays two side-by-side configuration windows from the Flexy management interface.

Left Window: Ethernet WAN Connection

- Address Setup:** IP address: 10.10.35.107, Subnet mask: 255.255.255.0, Default gateway: 10.10.35.1.
- DNS Setup:** Primary DNS IP address: 10.10.35.3, Secondary DNS IP address: 10.101.24.14.

Right Window: Interfaces

- General settings:** Hostname: efive, DNS1: 10.10.35.3, DNS2: 10.101.24.14, Default gateway: 10.10.35.1.
- lan - trusted internal network segment:** IP address: 192.168.5.27, Network mask: 255.255.255.0.
- wan - untrusted internet network segment:** Interface type: DHCP, IP address: 10.10.35.115, Network mask: 255.255.255.0.

Figure 6: WAN IP example

- Once you're connected to through the Internet Wizard, go onto the **VPN Wizard**.
- Click on **Configure eFive Connectivity**

eFive configuration wizard / eFIVE

A user account must be created for you on the eFive before you can use this wizard. The same account parameters must be entered here.

eWON Account parameters

Enter the information inserted in the eFive configuration

Server Address: 10.10.35.115

VPN Username: Flexy

VPN Password: •••••

CA Certificate: -----BEGIN CERTIFICATE-----
MIIELDCCAxSgAwIBAgIBATANBgkqhkiG9w0BAQ
UFADBgMQswCQYDVQQQGEWjVUzEL
MAkGA1UECPMCTHExHjAdBgNVBAoTEmhkem

Protocol: UDP

Port: 1194

Important: Your eWON must have a working Internet Connection

Before using the wizard, the eWON Internet access must be correctly configured.

This wizard supposes that the VPN server uses port 1194 and UDP protocol (otherwise configure your VPN connection manually).

Figure 7: For this, you'll grab the **WAN IP Address** of the eFive. The Username and Password will be the ones that you set in the step 4 accounts. The **CA Certificate** just needs to be copied and pasted from the **notepad** opened earlier.

eFive Step 5, rebooting:

- Go to **VPN > Basic Settings**
- Hit **Restart OpenVPN Server**, you should now see the device show its connection as **up** in on the home screen.

▲ User/Device name	▲ Connected
Cosy	down
Cosy2	down
Flexy	up

Showing 1 to 3 of 3 entries

Figure 8: showing the device online

Flexy Step 2, NAT setting:

- Go onto the Flexy into **Setup > System > Communication > Networking > Routing** > and set the NAT and TF to **NAT on LAN (Plug'n Route)**
- Reboot the device

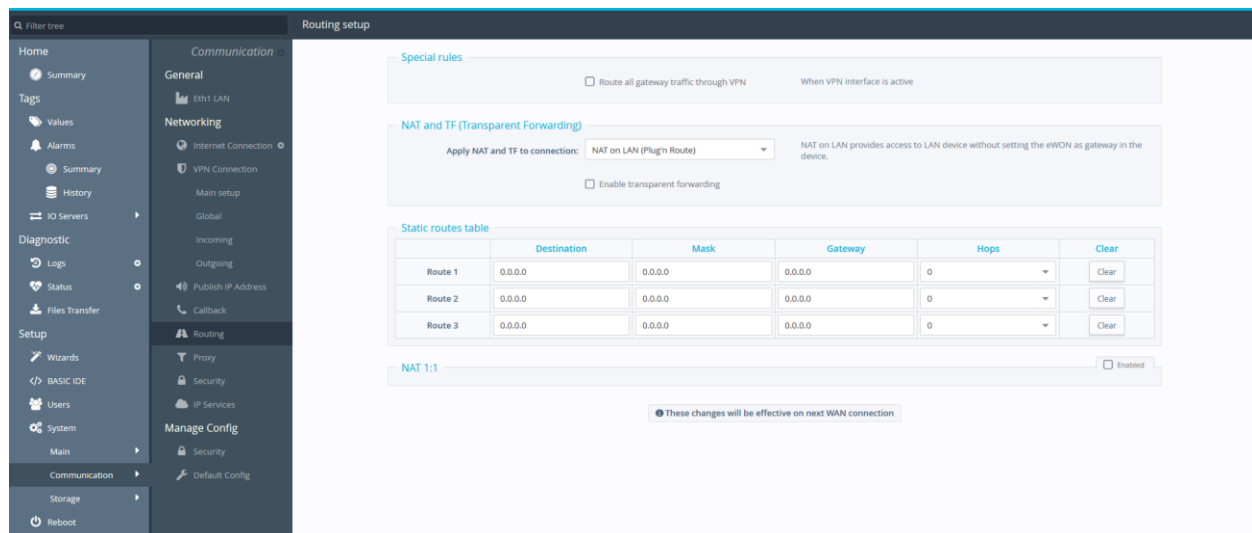


Figure 9: NAT setting

- Disconnect from your Wifi and make the IP changes seen in the figure below. You should now be able to ping your Flexy's LAN address as well as anything in the Flexy's Subnet Range.

Note: The max number of routes that an eWON can process is 26 with a "network behind client" set and the option "Don't push" is unchecked. You'll need to set the option "Don't push" for each eWON if you want to avoid this issue.

Don't push any routes to client: ☒

Networks behind client:

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☐ Obtain an IP address automatically

☒ Use the following IP address:

IP address:	192 . 168 . 5 . 37
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192 . 168 . 5 . 27

☐ Obtain DNS server address automatically

☒ Use the following DNS server addresses:

Preferred DNS server:	. . .
Alternate DNS server:	. . .

☐ Validate settings upon exit

Advanced...

OK Cancel

Figure 10: Set your LAN network to be in the IP range of your eFive and then set the **LAN of the eFive** as the **Default Gateway**.

eFive Step 5, eGrabit setup:

- Go to **VPN > Accounts > Add user/Device Account** and you can now add eGrabit to the network.

The screenshot shows the 'Edit user/device' configuration page in the eFive VPN interface. The top navigation bar includes 'VPN' and 'Accounts' tabs, with 'Accounts' being the active tab. Below the navigation bar, there are links for 'System', 'Network', 'Services', 'Firewall', 'VPN', 'Status', and 'Logs'. The main content area is titled 'Edit user/device' and contains the following fields and options:

- Account information:**
 - User/Device name: eGrabit
 - Password: (masked with three dots)
 - Verify password: (masked with three dots)
- Static ip:** None
- Client routing:**
 - Don't push any routes to client: ☐
 - Networks behind client: None
 - Push only these networks: None

Helpful notes on the right side of the form:

- Specify here optionnaly an IP address which makes part of the eFive LAN network. Make sure it is not overlapping the VPN Dynamic pool.
- Use CIDR network notation. Example: 192.168.1.0/24. Use one line per network.
- Use CIDR network notation. Example: 192.168.1.0/24. Use one line per network.

A 'Save account' button is located at the bottom right of the form.

Figure 11: adding eGrabit to the eFive setup

eGorbit Step 1, Initial setup:

- Download eGorbit from the following link:

<https://websupport.ewon.biz/support/companion/egrabit/egrabit-0>

- Open the **eGorbit** application and click Add an eFive
- You can name the connection to the **eFive** and include the local address. You can also use the Public IP address if you're using an internet router.
- Make sure that the **username** and **password** match what was used in the **eFive** setup

The screenshot displays the eGorbit application interface. On the left, the 'Account information' section includes fields for 'User/Device name' (containing 'eGorbit'), 'Password' (masked with dots), and 'Verify password' (masked with dots). Below these are 'Static ip' (set to 'None') and 'Client routing' options, including a checkbox for 'Don't push any routes to client' and two text boxes for 'Networks behind client' and 'Push only these networks', both containing 'None'. On the right, the 'eFive Properties' dialog box is open, showing the 'VPN' tab. It contains fields for 'Name' (containing 'eFive'), 'Hostname/IP' (containing '192.168.5.27'), 'Username' (containing 'eGorbit'), and 'Password' (masked with dots). A note states: 'Leave your login empty if you would rather be prompted upon connection.' Below these is a 'Certificate Authority (CA)' section with 'Name: hardware meet software CA' and 'Company: hardware meet software', and an 'Edit...' button. At the bottom of the dialog are 'OK', 'Cancel', and 'Apply' buttons.

Figure 12: adding an eFive to eGorbit

Note: You *cannot* be using eCatcher while you're using eGorbit.

eGrabit Step 2, Connecting:

- After connecting to the to the **eFive** through **eGrabit**, you'll be able to reach everything on that eFive's network
 - You can also choose to add Actions when connecting to the eFive such as opening a program or a browser with a certain URL.
 - Other advanced settings include setting proxy settings in the advanced tab

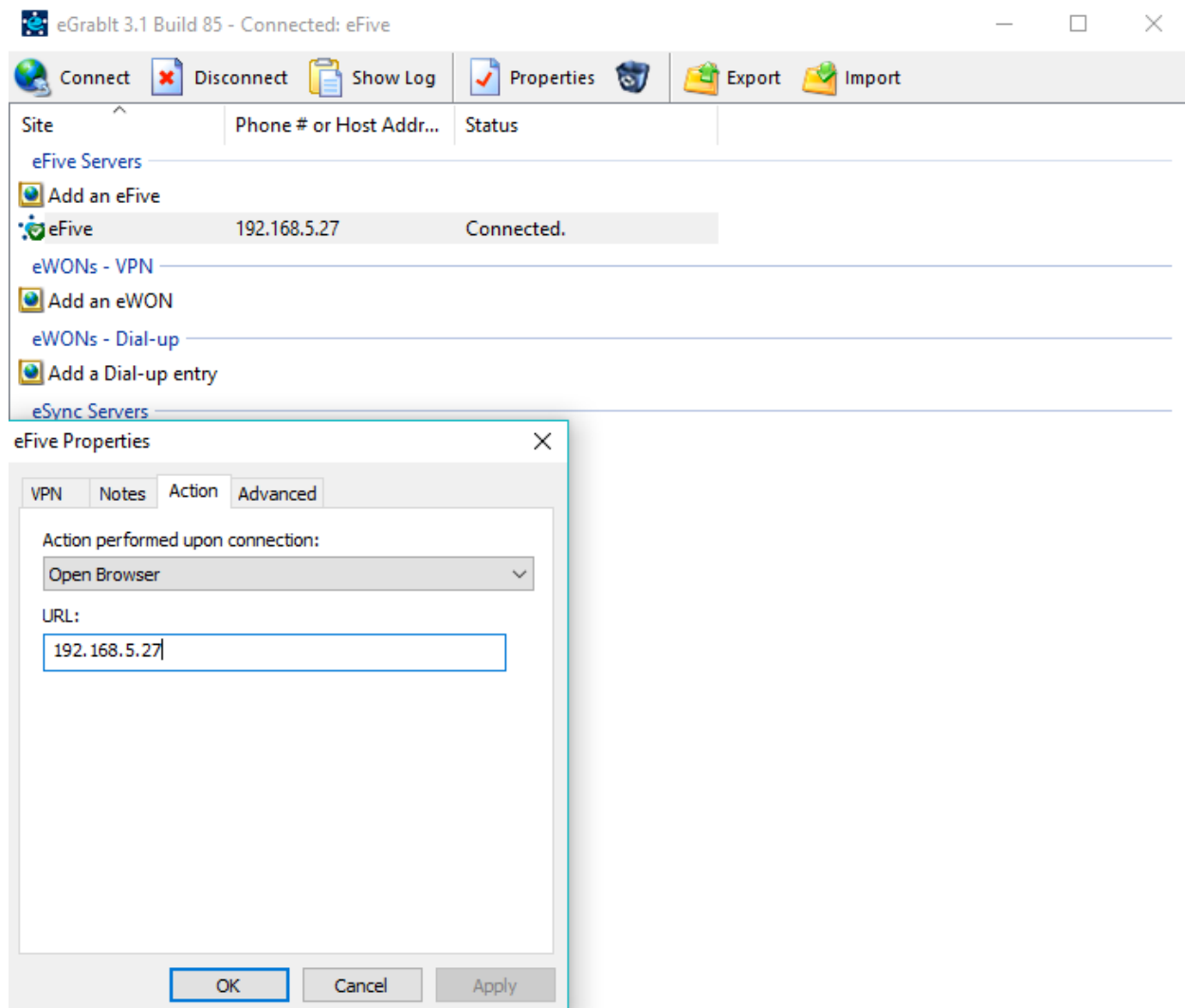


Figure 13: Showing some advanced eGrabit settings

- If you're using multiple Flexies with similar IP schemes, this document with NAT 1:1 mapping may be useful

https://websupport.ewon.biz/sites/default/files/kb-0242-0-en_use_identical_remote_networks_on_an_efive_topology.pdf