

Switch the interface to *Static address*.


[WI\\_CONF](#)
[LAN](#)

## Interfaces - LAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation INTERFACE.VLANNR (e.g.: eth0.1).

### Common Configuration

[General Setup](#)
[Advanced Settings](#)
[Physical Settings](#)

Status

eth0

Uptime: 3d 17h 24m 19s  
MAC-Address: A8:40:41:00:12:11  
RX: 193.53 MB (1669010 Pkts.)  
TX: 443.80 MB (742521 Pkts.)  
IPv4: 192.168.1.118/24

Protocol

DHCP client  
**Static address**  
DHCP client  
Unmanaged

Hostname to send when requesting DHCP


[Save & Apply](#)
[Save](#)
[Reset](#)
[Home](#)
[Administration](#)

Confirm that you want to switch protocol by pressing *[Switch protocol]* button.

Protocol

Static address

Really switch protocol?

 Switch protocol

[Save & Apply](#)
[Save](#)
[Reset](#)

Fill in the form with the details you were provided.

## Interfaces - LAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation `INTERFACE.VLANNR` (e.g.: `eth0.1`).

### Common Configuration

General Setup
Advanced Settings
Physical Settings

Status
eth0

Uptime: 23h 0m 2s  
MAC-Address: A8:40:41:00:12:11  
RX: 275.22 MB (2198966 Pkts.)  
TX: 15.67 MB (76031 Pkts.)  
IPv4: 192.168.1.118/24  
IPv6: FD3C:4145:2DA2:0:0:0:0:1/60

Protocol
Static address

IPv4 address
10.0.42.141

IPv4 netmask
255.255.255.0

IPv4 gateway
10.0.42.254

IPv4 broadcast

Use custom DNS servers
10.0.3.1

IPv6 assignment length
disabled

Assign a part of given length of every public IPv6-prefix to this interface

IPv6 address

IPv6 gateway

IPv6 routed prefix

Public prefix routed to this device for distribution to clients.

### DHCP Server

You would also like to disable DHCP for the interface.

In almost all cases, if you are configuring a static IP for your Gateway, you will want to disable DHCP for the interface. This would normally only be used if you were configuring the Gateway as a router, rather than as a static client. If you do NOT disable DHCP, you may find that other devices on your statically configured network segment start receiving DHCP offers from your Gateway, which will rarely be what you were hoping to achieve.

## DHCP Server

General Setup
IPv6 Settings

Ignore interface ☒ ☐ Disable DHCP for this interface

Save & Apply Save Reset

### Step 4 - Save settings

When done, press the *[Save & Apply]* button to keep and apply your changes.

### Enable/Disable WiFi


In some installations, once configuration has been completed, you want to completely disable WiFi access and do any future configuration via the Ethernet interface.

### Step 1 - Connect to the Gateway

If you are not connected to your gateway device, please see chapter 9, [Connecting to Gateway](#).

### Step 2 - Go to Administration page

From the home page of the administration web console of your device, click the [\[Administration\]](#) link.



eTactica EG: A84041001211  
eTactica: 1.24-release-1  
Powered By: OpenWrt Barrier Breaker 14.07

Config Devices Channel Monitor Start Security eTactica Keys Plugins Network Help

Last Update: eTactica Connection . Running...

Devices	<input checked="" type="checkbox"/>	All devices working: 3
eTactica Connection	<input checked="" type="checkbox"/>	eTactica Connection OK
Time Synchronization	<input checked="" type="checkbox"/>	Time sync is good, local time: Mon May 30 13:38:48 2016

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Home **Administration**

This will require you to login, using the root password you have configured earlier. If not, please see chapter 9, [Password Settings](#).


### Step 3 - Go to the WiFi configuration page

Choose [Network->WiFi](#) from the top menu.

Step 4 - Turn off WiFi  
Press the *[Disable]* button.

radio0: Master "eTactica eg-001211"

### Wireless Overview


**Generic MAC80211 802.11bg (radio0)**  
Channel: 11 (2.462 GHz) | Bitrate: ? Mbit/s

SSID: eTactica eg-001211 | Mode: Master  
0% BSSID: A8:40:41:00:12:10 | Encryption: WPA2 PSK (CCMP)

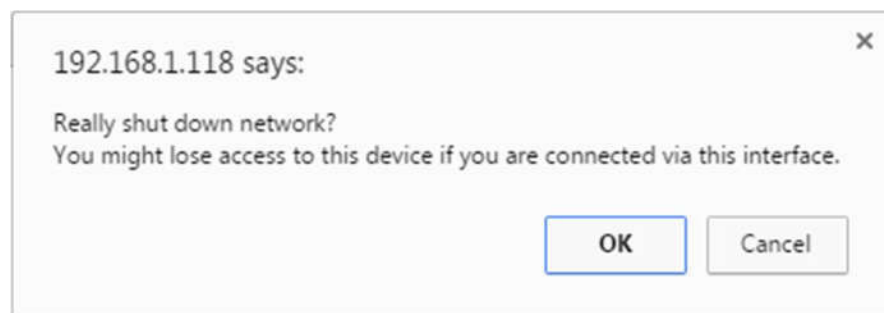
### Associated Stations

SSID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate
No information available						

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[Home](#) | [Administration](#)

Confirm that you want to shutdown network.



The WiFi should now be completely disabled.

### Re-enable WiFi access to the Gateway

Since you have disabled the WiFi completely, the only option to access your Gateway is via your IP network. To do that see [Connection via Ethernet](#) in chapter 2, [Connecting to Gateway](#).

### Internet connection via WiFi (No Ethernet Connection)

By default, the eTactica gateway is configured as a wireless access point that you can use for configuration, with the Ethernet port preconfigured to be plugged into your existing network and receive address information via DHCP.

For most cabinet installations, Ethernet is available and desirable, and even if you need to make some changes to the networking (static IPs, etc.) you can do all that via the WiFi configuration network. However, you can also configure the Gateway

to use the WiFi link as the connection to network, if you don't have Ethernet access in your cabinet.

The EG-100 can only handle one WiFi connection at a time, so when the Internet connection is changed to the WiFi the access point has to be changed to the Ethernet port. On the EG-200 you can continue to use WiFi for the access point and then you can skip steps 1 to 4 in the instruction below.

### Pre-requirements

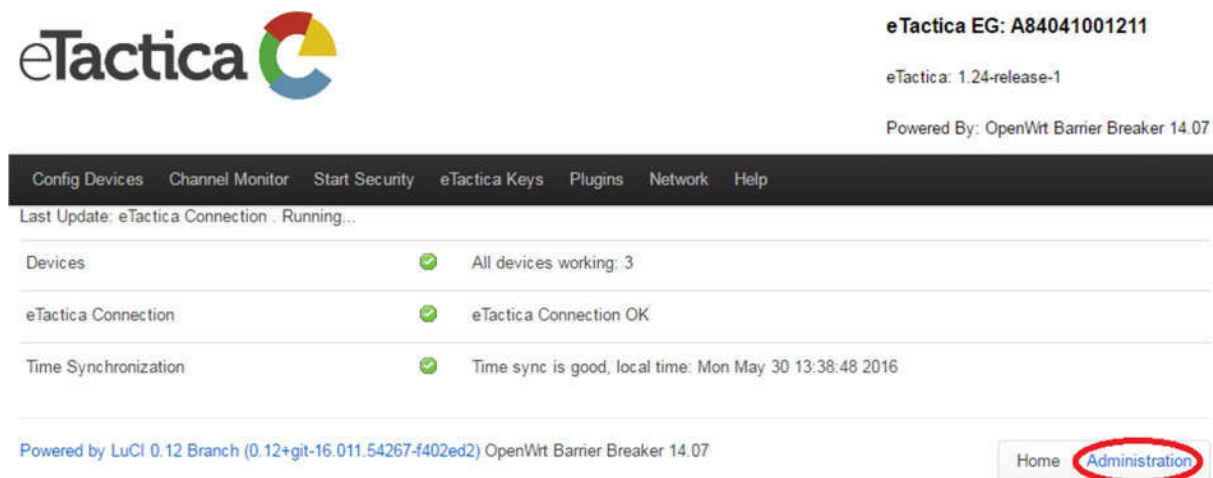
You are successfully connected to your gateway. If you are not connected yet, please see chapter 2, [Connecting to Gateway](#).

Furthermore before you start, you'll need the following:

- Computer/Laptop with WiFi for initial switch-over to Ethernet
- Ethernet cable to connect your computer/laptop to the Gateway to continue configuration (not needed for EG-200)
- Wireless network keys and names for connection to your desired wireless network

### Step 1 - Go to Administration page (for EG-200 go to step 5)

From the home page of the administration web console of your device, click the [Administration](#) link.



This will require you to login, using the root password you have configured earlier. If not, please see chapter 9, [Password Settings](#).

### Step 2 - Go to "Preset networking"

Choose [RME->Preset Networking](#) from the top menu.

Status

System

Services

Network

Logout

RME

AUTO REFRESH ON

Status

System

Channel Monitor

Modbus Devices

General Alerts

Modbus TCP Relay

Plugins

Preset Networking

SNMP Support

Hostname

eg-00121

Model

Unknown

Firmware Version


OpenWrt

0.12 Branch (0.12+git-16.011.54267-f40ed2)

### Step 3 - Switch network

You want to switch your network completely over to being an Access Point on the Ethernet port. Press the *[Choose this]* button, under "WiFi Client (no Ethernet to cabinet)".

### Ethernet Client (Default)




With this configuration, the Gate provides an open, unsecured Wifi Access Point for configuration, available via the domain name `http://egate` or the IP Address `http://192.168.49.1`. The ethernet interface operates a DHCP client for easy connection to an existing network. This is the default networking configuration out of the box.

☒ Choose this

---

### WiFi Client (no Ethernet to cabinet)



With this configuration, the Gate leaves the Wifi interface unconfigured. The ethernet interface operates an open access point with DHCP server for configuration, available via the domain name `http://egate` or the IP Address `http://192.168.49.1`. Choose this option if you want to connect this Gate to the internet via an existing wifi network, and will connect to the Gate via an ethernet cable for configuration.

☒ Choose this

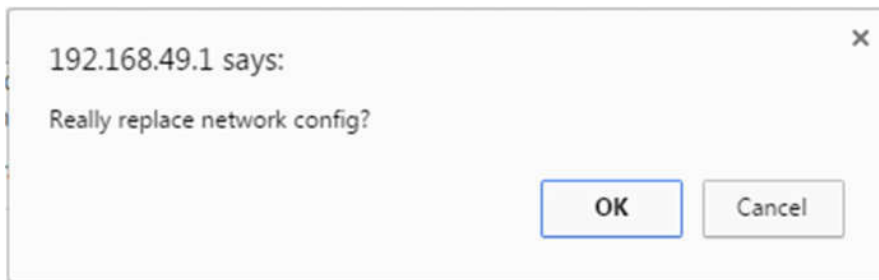
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[Home](#) | [Administration](#)



Confirm that you want to switch network.



You will then connect your computer to the Gateway with a network cable and the WiFi interface will be free to reconfigure for your desired WiFi network.

#### Step 4 - Connect the Ethernet cable and reboot

To make sure all the network comes up cleanly, the Gateway will replace its entire network configuration with clean templates and reboot. At this point you should connect the Ethernet cable from your computer directly to the gateway.

When the Gateway has come up again, re-enter in your web browser the URL for the home page of the administration web console: <http://192.168.49.1>

#### Step 5 - Configure Wireless Interface

In the following example, the Gateway is being configured to connect to a network named *Office-WiFi*.

From the home page, click on the [\[Administration\]](#) link near the bottom of the page.

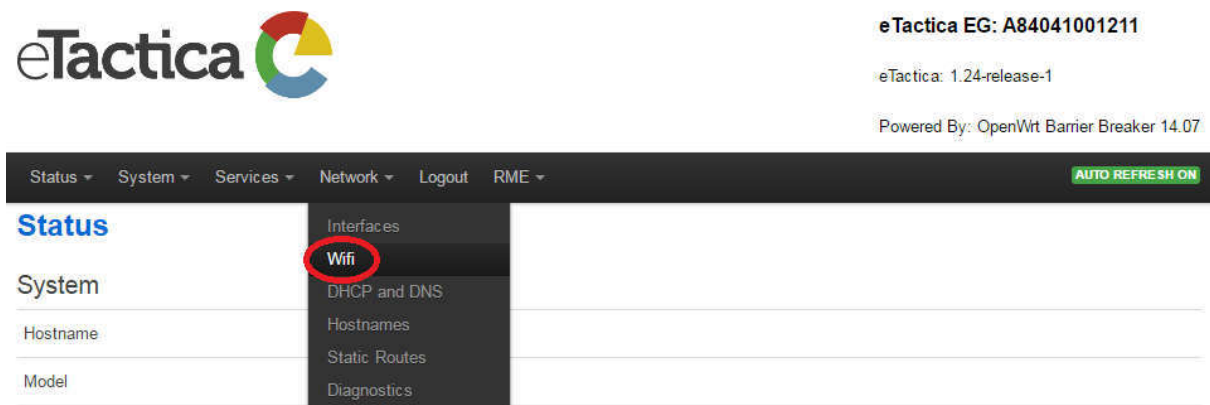
##### Time Synchronization errors

- Please check that at least one of the configured NTP servers is valid
- Please check that UDP port 123 outbound is not firewalled
- Test DNS, ping and routing manually
- NOTE: It can take 2-3 minutes for time to synchronise after resolving networking issues.

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Home [Administration](#)


Choose *Network-> WiFi* from the top menu.


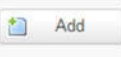



Press the *[Scan]* button.


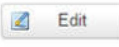
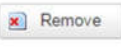
radio0: Client "eTactica eg-1332A9"

### Wireless Overview



**Generic MAC80211 802.11bg (radio0)**  
Channel: 11 (2.462 GHz) | Bitrate: 2 Mbit/s


**SSID:** eTactica eg-1332A9 | **Mode:** Client  
100% **BSSID:** A8:40:41:13:32:A8 | **Encryption:** None

### Associated Stations

SSID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate
 eTactica eg-1332A9	A8:40:41:13:32:A8	192.168.49.1	-18 dBm	-108 dBm	54.0 Mbit/s, MCS 0, 20MHz	2.0 Mbit/s, MCS 0, 20MHz

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[Home](#) | [Administration](#)

A list of all available wireless networks appears and you simply choose the one you wish to connect to.

Status ▾
System ▾
Services ▾
Network ▾
Logout
RME ▾

### Join Network: Wireless Scan



**PRIGuest**  
15% Channel: 1 | Mode: Master | BSSID: 00:1E:BD:67:96:01 | Encryption: WPA2 - PSK




**hidden**  
20% Channel: 1 | Mode: Master | BSSID: 00:1E:BD:67:96:02 | Encryption: WPA2 - PSK




**Office-WIFI**  
24% Channel: 1 | Mode: Master | BSSID: CC:5D:4E:59:A2:00 | Encryption: WPA2 - PSK






Here you enter in your wireless network password/passphrase and on EG-200 remove the tick mark for

## Join Network: Settings

Replace wireless configuration ☐ ☒ An additional network will be created if you leave this unchecked.

WPA passphrase    
Specify the secret encryption key here.

Name of the new network   
The allowed characters are: **a-z**, **A-Z**, **0-9** and **\_**

[Submit](#)
[Back to scan results](#)

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[Home](#) | [Administration](#)

Now press the *[Submit]* button to continue and you will get some more options.


radio0: Client "OpenWrt"

## Wireless Network: Client "OpenWrt" (radio0.network1)

The *Device Configuration* section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which are shared among all defined wireless networks (if the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the *Interface Configuration*.

### Device Configuration

[General Setup](#) [Advanced Settings](#)

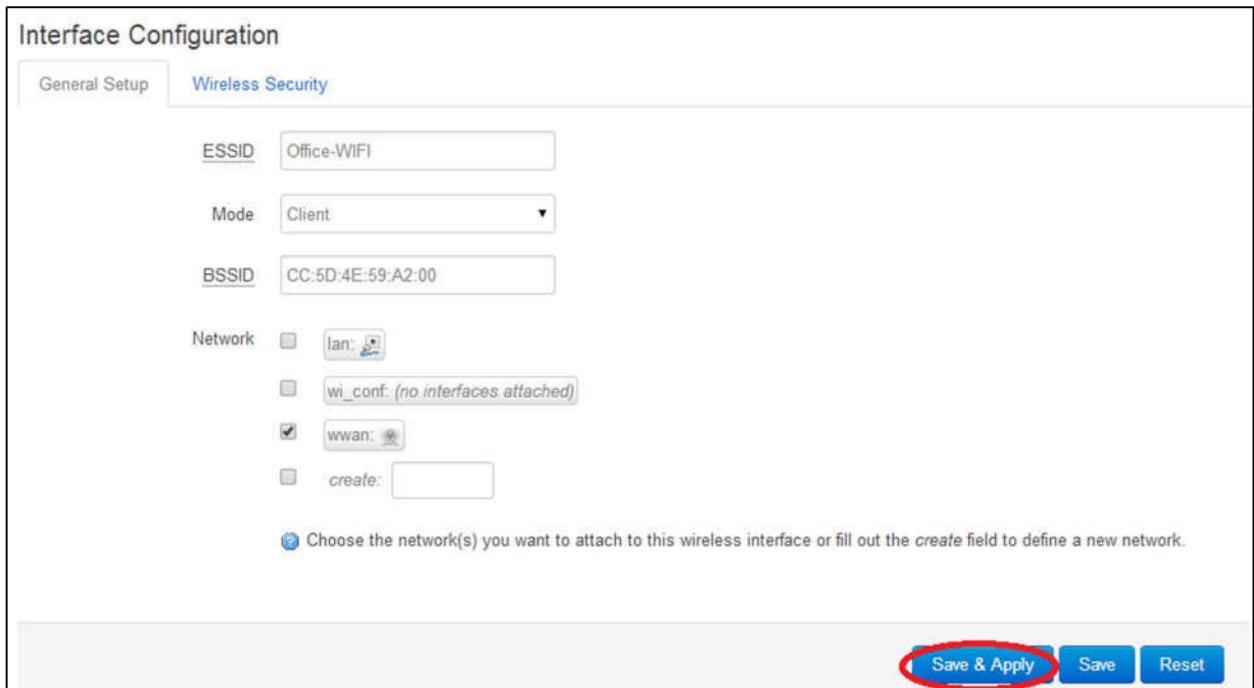
Status  **Mode:** Client | **SSID:** OpenWrt  
0% **BSSID:** C6:93:00:03:7B:91 | **Encryption:** -  
**Channel:** 11 (2.462 GHz) | **Tx-Power:** 0 dBm  
**Signal:** 0 dBm | **Noise:** 0 dBm  
**Bitrate:** 0.0 Mbit/s | **Country:** US

Wireless network is enabled ☒ Disable

Channel

Transmit Power   
☒ dBm

**Scroll down**



In most of the cases, this is all you need to do.

### Step 6 - Save settings

Press the *[Save and Apply]* button to keep and apply your settings and you should be connected to your chosen WiFi network.

This can take a few minutes for all networking to restart, please be patient. If the page doesn't update properly, just choose Network->WiFi from the top menu bar again. You should see it now connected.

If you wish to return to the original configuration, you can go back to RME->Preset Networking, and choose the "Ethernet Client" model.

### Editing WiFi Parameters

This section covers adjusting the SSID and TX power of your WiFi interface. These settings are rarely needed, but may be desired in high traffic locations to reduce interference and to reduce the range of allowed WiFi connections.

### Pre-requirements

You are successfully connected to your gateway. If you are not connected yet, please see chapter 2, [Connecting to Gateway](#).

### Step 1 - Go to Administration page

From the home page of the administration web console of your device, choose the [Administration](#) link.

[Config Devices](#)
[Channel Monitor](#)
[Start Security](#)
[eTactica Keys](#)
[Plugins](#)
[Network](#)
[Help](#)

Last Update: eTactica Connection . Running...

Devices	✓	All devices working: 3
eTactica Connection	✓	eTactica Connection OK
Time Synchronization	✓	Time sync is good, local time: Mon May 30 13:38:48 2016

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[Home](#)
[Administration](#)

This will require you to login, using the root password you have configured earlier. If not, please see chapter 9, [Password Settings](#).

Step 2 - Go to the WiFi configuration page  
From the top menu, choose Network->WiFi.

[Status](#)
[System](#)
[Services](#)
[Network](#)
[Logout](#)
[RME](#)

[Status](#)

[System](#)

[Status](#)
[System](#)
[Services](#)
[Network](#)
[Logout](#)
[RME](#)

[Interfaces](#)
[Wifi](#)
[DHCP and DNS](#)
[Hostnames](#)
[Static Routes](#)
[Diagnostics](#)


### Step 3 - Edit the WiFi interface



Press the *[Edit]* button.


radio0: Client "Office-WIFI"




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#### Wireless Overview



**Generic MAC80211 802.11bg (radio0)**  
 Channel: 1 (2.412 GHz) | Bitrate: 54 Mbit/s
 

 Scan
  Add


 SSID: Office-WIFI | Mode: Client  
 78% BSSID: CC:5D:4E:59:A2:00 | Encryption: WPA2 PSK (CCMP)
 

 Disable
  Edit
  Remove

#### Associated Stations

SSID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate
 Office-WIFI	CC:5D:4E:59:A2:00	?	-54 dBm	-109 dBm	48.0 Mbit/s, MCS 0, 20MHz	54.0 Mbit/s, MCS 0, 20MHz

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[Home](#) | [Administration](#)

## Step 4 - TX Power / WiFi Channel

The channel assignment and transmit power are set in the first section, but it is entirely site-specific configuration, so no advice or sensible defaults can be given here.

radio0: Client "Office-WIFI"

### Wireless Network: Client "Office-WIFI" (wlan0)

The *Device Configuration* section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which are shared among all defined wireless networks (if the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the *Interface Configuration*.

#### Device Configuration

General Setup

Advanced Settings

Status

**Mode:** Client | **SSID:** Office-WIFI  
**BSSID:** CC:5D:4E:59:A2:00 | **Encryption:** WPA2 PSK (CCMP)  
**Channel:** 1 (2.412 GHz) | **Tx-Power:** 30 dBm  
**Signal:** -68 dBm | **Noise:** -109 dBm  
**Bitrate:** 54.0 Mbit/s | **Country:** US

Wireless network is enabled

Disable

Channel

1 (2.412 GHz)

Transmit Power

30 dBm (1000 mW)

dBm

#### Interface Configuration

General Setup

Wireless Security

ESSID

Office-WIFI

Mode

Client

BSSID

CC:5D:4E:59:A2:00

### Step 5 - Change the (E)SSID

If you wish to change the SSID, to match a local naming policy, or simply to provide a helpful reminder of the location, ( *Kitchen* , *Office 4B* or similar) the lower portion of the page allows this to be changed, along with other advanced WiFi settings.

Wireless network is enabled

Channel

Transmit Power  dBm


#### Interface Configuration

General Setup **Wireless Security**


**ESSID**

Mode


BSSID

Network ☐ lan: 

☐ wi\_conf: (no interfaces attached)

☒ wwan: 

☐ create:

 Choose the network(s) you want to attach to this wireless interface or fill out the create field to define a new network.

### Step 6 - Save settings

When done editing your configuration, you press the *[Save & Apply]* button to keep and apply your settings.



## 9. Password Settings

In this chapter, you find information on how to change password settings:

- Gateway root password
- WiFi secure access

### Gateway Root Password

The default root username is `root` on a new gateway there is no password set.

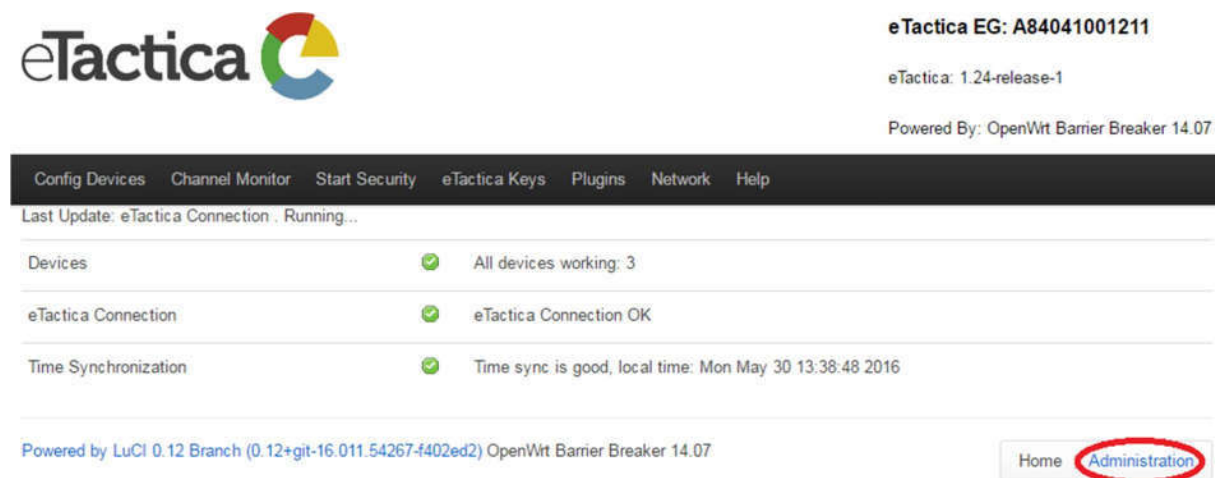
After you've logged in the first time, you **SHOULD** set the root password. In the following, you find a step-by-step guide, how to change it.

#### Step 1 - Connect to the Gateway

You need to be successfully connected to your gateway device. If not, see chapter 2, [Connecting to Gateway](#).

#### Step 2 - Go to Administration page

From the home page of the administration web console of your device, click on the [Administration](#) link.



You will be asked to login and if you haven't already set the password just press Return/Enter.

#### Step 3 - Go to Administration configuration page

From the top menu, choose [System->Administration](#).

Status
System
Services
Network
Logout
RME

System
Administration
Software
Startup
Scheduled Tasks
LED Configuration
Backup / Flash Firmware
Custom Commands
Reboot

System
Software
Startup
Scheduled Tasks
LED Configuration
Backup / Flash Firmware
Custom Commands
Reboot

Hostname
Model
Firmware Version
Kernel Version
Local Time

eg-001211
Unknown
OpenWrt Barrier Breaker 14.07 / LuCI 0.12 Branch (0.12+git-16.011.54267-f402ed2)
3.10.49
-

## Step 4 - Enter a new password

Enter new password. Note that the username is still "root".

### Router Password

Changes the administrator password for accessing the device

Password

Confirmation

### SSH Access

Dropbear offers [SSH](#) network shell access and an integrated [SCP](#) server

#### Dropbear Instance

Delete

Interface

lan
wi\_conf
unspecified

Listen only on the given interface or, if unspecified, on all

Port
22

Specifies the listening port of this Dropbear instance

Password authentication

☒
Allow SSH password authentication

Allow root logins with password

☒
Allow the root user to login with password

Gateway ports

☐
Allow remote hosts to connect to local SSH forwarded ports

You can also edit SSH settings here, for example to add a public key and disable password-based access altogether, or to ban SSH access from the internet.

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