



InvizBox User Guide



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Introduction

InvizBox is a small, low power device that helps provide an easy-to-use method of protecting your privacy on the Internet. Just plug the InvizBox into your existing router / modem. A new "InvizBox" wifi hotspot will appear. Connect to the new hotspot and follow the one time configuration setup and you're ready to go! All devices that you connect to the InvizBox wifi will route their traffic over the Tor Privacy Network.

We all have a right to privacy, a right to protect our personal information, data, location and internet behavior. You may think you have nothing to "hide", or you aren't doing anything "wrong" that would require investigation by third parties but neither do we. That doesn't mean that we have to leave ourselves open to tracking and profiling by people, governments, companies, hackers etc. who we neither know or trust. Invizbox provides an easy solution to give you back control over who & what you choose to disclose your personal information to.

Hardware

The InvizBox is a small router based on the MediaTek MT7620N Wi-Fi System-On-Chips (WiSOC). Specifications are as follows :

- CPU architecture: MIPS 24KEc (RT6352)
- 802.11n 2T/2R (2x2:2) 2.4 GHz 300Mbps MAC/BB/PA/RF
- Clocked @ 580 MHz
- DDR RAM 64MB
- Supports Wifi b/g/n
- MAC address filtering
- Support for WPA / WPA2, WPA-PSK / WPA2-PSK.
- Support System: Windows / Mac / Linux
- Colours - White.
- Power via micro USB (cable included).
- 16MB flash

Dimensions: 65mm X 45mm X 22mm



Quick Setup

In this section we will show you how to quickly setup the InvizBox in 6 easy steps.

Six Easy Steps

1. Connect the supplied ethernet cable to the WAN port on the InvizBox.
2. Connect the other end of the ethernet cable to an ethernet port on the router given by your internet service provider.
3. Connect the USB cable to a suitable power source. (Note: Many routers now have suitable USB ports which can be used instead of a separate power supply)
4. Connect the other end of the USB cable to the InvizBox.
5. Wait about 30 seconds for first boot. If you are using wifi, look for an "InvizBox" wifi access point.
6. Select the InvizBox wifi access point and enter the password that is printed on the bottom of your InvizBox.

Please see [QuickStart Manual](#) for more detail.



Overview

To access any of the admin pages outlined point your browser to :

<http://10.101.0.1>

General Status

The Overview page gives you a brief overview of a number of things:

- Tor Status
- Time, Date and other system information
- Network Overview
- DHCP Status
- Connected Clients

Below is a screenshot of how it will look




INVIZBOX
PRIVACY MADE EASY

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Tor Status

Tor Status	Connected to the Tor network
Tor Version	0.2.7.6 : recommended

System

Hostname	InvizBox
Model	InvizBox : V1.3.0
Local Time	Mon Apr 11 20:19:18 2016
Uptime	3d 10h 44m 39s
Load Average	0.02, 0.59, 0.54
Memory	34704 kB / 61528 kB (56%)

Network

IPv4 WAN Status

Type: dhcp
Address: 192.168.0.103
Netmask: 255.255.255.0
Gateway: 192.168.0.254
DNS 1: [REDACTED]
DNS 2: [REDACTED]
Connected: 4h 22m 35s

Active Connections

7 / 3844 (0%)

DHCP Leases

Hostname	IPv4-Address	MAC-Address	Leasetime remaining
[REDACTED]	10.101.0.96	[REDACTED]	20h 1m 54s

Wireless

Generic 802.11bgn Wireless Controller (radio0)

SSID: [REDACTED]
Mode: Master
Channel: 11 (2.462 GHz)
Bitrate: 72.2 Mbit/s
BSSID: [REDACTED]
Encryption: mixed WPA/WPA2 PSK (CCMP)

Connected Clients

MAC-Address	Network	Signal	Noise	RX Rate	TX Rate
[REDACTED]	Master [REDACTED]	-70 dBm	0 dBm	72.2 Mbit/s, MCS 7, 20MHz	72.2 Mbit/s, MCS 7, 20MHz

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Admin

Password & Language

This section allows you to change the password for UI and SSH, along with the language of the UI.



Router Password

Changes the administrator password for accessing the device

System Properties

Language

English

Password

Confirmation

To change Password just enter in the new password into both Boxes and click “Save & Apply” at the bottom of the screen.

To Change language, Select the language from the dropdown and click “Save & Apply” at the bottom of the screen.

DropBear SSH

This section describes how to setup SSH access to the InvizBox. Out of the box, SSH is disabled.

SSH Access

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

Dropbear Instance

This section contains no values yet

Add

SSH-Keys

Here you can paste public SSH-Keys (one per line) for SSH public-key authentication.

Save & Apply

Save

Reset

To enable SSH you have to click “Add”. Once that is done to can configure the options as seen below.



SSH Access

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

Dropbear Instance

[Delete](#)

Port

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

[Add](#)

SSH-Keys

Here you can paste public SSH-Keys (one per line) for SSH public-key authentication.

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

Here you can configure the port and other options displayed. You can also add SSH-Keys (one per line) into the appropriate section. Once you change any of these click the “**Save & Apply**” button at the bottom of the screen.

Network

Wifi

The WIFI section allows you to go deeper and configure the wifi access point to your own setup. Ideally it is only recommended to change the wifi **ESSID**, access point password and channel.



Wireless Overview

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

 **SSID:** InvizBox | **Mode:** Master
0% **BSSID:** 28:00:00:00:00:00 | **Encryption:** mixed WPA/WPA2 PSK (CCMP)

DisableEdit

Connected Clients

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

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In the Wireless Overview page you can see the general status of the Wifi connections and connected clients. You can also disable and edit the wifi from this page.

Disable: Clicking this button will stop the Wifi access point. Tor and LAN will continue to work normally. This is good for if all you want is LAN and want to stop wifi from eating those precious air waves.

Edit: This bring you to a more detailed section which allow more precise configuration of the Wifi access point.

Customizing Wifi

On the Wireless Overview select **Edit**. The following page will appear



Wireless Network: Master "InvizBox" (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: Master | SSID: InvizBox

BSSID: 20:00:00:00:00:00 | Encryption: mixed WPA/WPA2 PSK (CCMP)

Channel: 11 (2.462 GHz) | Tx-Power: 20 dBm

Signal: 0 dBm | Noise: 0 dBm

Bitrate: 0.0 Mbit/s | Country: 00

Wireless network is enabled

Disable

Channel

11 (2.462 GHz)

Transmit Power

20 dBm (100 mW)

dBm

Interface Configuration

General Setup

Wireless Security

MAC-Filter

ESSID

InvizBox

Mode

Access Point

Network

☒ lan: 

☐ tor: 

☐ wan: 

☐ create:

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

Hide ESSID

☐

WMM Mode

☒

Save & Apply

Save

Reset



Device Configuration

General Setup

In this section you can see the status. You can also change the Channel and Transmission Power. Once you change any of these click the **“Save & Apply”** button on the bottom of the screen

Device Configuration

General Setup

Advanced Settings

Status

Mode: Master | SSID: InvizBox
BSSID: 20:28:18:A0:BC:5E | Encryption: mixed WPA/WPA2 PSK (CCMP)
Channel: 11 (2.462 GHz) | Tx-Power: 20 dBm
Signal: -58 dBm | Noise: 0 dBm
Bitrate: 48.0 Mbit/s | Country: 00

Wireless network is enabled

Disable

Channel

11 (2.462 GHz)

Transmit Power

20 dBm (100 mW)

Advanced Settings

In this section you can edit the following :

- Band
- HT mode (802.11n)
- Country Code
- Distance Optimization
- Fragmentation Threshold
- RTS/CTS Threshold

Once you change any of these click the **“Save & Apply”** button on the bottom of the screen



Device Configuration

General Setup Advanced Settings

Band

2.4GHz (802.11g+n)

HT mode (802.11n)

20MHz

Country Code

00 - World

Use ISO/IEC 3166 alpha2 country codes.

Distance Optimization

Distance to farthest network member in meters.

Fragmentation Threshold

RTS/CTS Threshold

Interface Configuration

Interface Configuration

General Setup

In this section you can edit the following :

- ESSID
- Mode
- Network
 - lan: VLAN Interface: "eth0.1"
 - tor: VLAN Interface: "eth0.3"
 - wan: VLAN Interface: "eth0.2"
 - wifi: VLAN Interface: "eth0.4" Wireless Network: Master "InvizBox"
- Hide ESSID
- WMM Mode

It is advised only to change the **ESSID**. Once you change any of these click the **“Save & Apply”** button on the bottom of the screen.



Interface Configuration

General Setup
Wireless Security
MAC-Filter

ESSID

Mode

Network

☐ lan:

☐ tor:

☐ wan:

☒ wifi:

☐ create:

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

Hide ESSID
☐

WMM Mode
☒

Wireless Security

In this section you can edit the following :

- Encryption
- Cipher
- Key

Interface Configuration

General Setup
Wireless Security
MAC-Filter

Encryption

Cipher

Key

Once you change any of these click the “Save & Apply” button on the bottom of the screen



Mac-Filter

In this section you can setup MAC based filter for wireless access point. Select the options you wish from

- None
- Allow Only Listed
- Allow All Except Listed

Interface Configuration

General Setup
Wireless Security
MAC-Filter

MAC-Address Filter

Allow listed only ▼

MAC-List

▼

In the dropdown “MAC-List” select the MAC that you want allowed or denied. Once you change any of these click the “**Save & Apply**” button on the bottom of the screen

Network

The Network section allows you to go deeper and configure the wifi access point to your own setup. Ideally it is only recommended to change the wifi **ESSID** and access point password.

Interfaces

Interface Overview

Network	Status	Actions
LAN br-lan	Uptime: 3d 22h 24m 51s MAC-Address: [REDACTED] RX: 14.15 MB (53578 Pkts.) TX: 24.09 MB (48454 Pkts.) IPv4: 10.101.0.1/24	Connect Stop Edit
TOR eth0.3	Uptime: 3d 22h 24m 51s MAC-Address: [REDACTED] RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.) IPv4: 172.16.1.1/24	Connect Stop Edit
WAN eth0.2	Uptime: 16h 3m 10s MAC-Address: [REDACTED] RX: 66.86 MB (111684 Pkts.) TX: 18.47 MB (32147 Pkts.) IPv4: 192.168.0.103/24	Connect Stop Edit

Add new interface...

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It is advised not to edit any of these setting in this section. Doing so can break



functionality of your InvizBox and you may need to do a hard reset.

Tor

In this section you can Restart Tor, Configure Proxy and Bridges, Select Exit Nodes and Advanced Config. It also shows you a general running status of Tor.

Tor Status

This page shows if the InvizBox is connected to the Tor network. It also shows the Tor version, current bandwidth and Tor circuit status.

Tor Status and Configuration

Tor Status

Bridge Configuration

Proxy Configuration

Country Options

Restart Tor

New Identity

Refresh

Tor Connection Status

Connected to the Tor network

Tor Version

0.2.7.6 : recommended

Tor Circuit Status

```
39 BUILT $9CAE650EB7B479B3ED7C4A9C0FDB4265745BDC0F~Unnamed,$397136F37F5EFCCADB6371318839B875140E439B~coolmike,$276E109C584D98CAC7813185F217...
444 BUILT $9CAE650EB7B479B3ED7C4A9C0FDB4265745BDC0F~Unnamed,$B9F3623690227FCFDB0D7D63AA1B6E3CC4A74338~asuka,$31D01A8CD3799E0CB6A56D8F1498...
446 BUILT $9CAE650EB7B479B3ED7C4A9C0FDB4265745BDC0F~Unnamed,$30973217E70AF00EBE51797FF6D9AA720A902EAA~youlooksuspicious,$D52CD431CEF28E01B11...
```

Save & Apply

Save

Reset

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If Tor is not connected click the “Restart Tor” button and wait approximately 30 seconds then “Refresh”. Tor should connect. If not wait another 30 seconds and hit “Refresh” again. If you still cannot connect to the Tor network, you may need to configure a bridge or proxy (see below).



Bridge Configuration

Bridges are Tor relays that help you circumvent censorship. Bridge relays (or "bridges" for short) are Tor relays that aren't listed in the main Tor directory. Since there is no complete public list of them, even if your ISP is filtering connections to all the known Tor relays, they probably won't be able to block all the bridges. If you suspect your access to the Tor network is being blocked, you may want to use bridges.

The addition of bridges to Tor is a step forward in the blocking resistance race. It is perfectly possible that even if your ISP filters the Internet, you do not require a bridge to use Tor. So you should try to use Tor without bridges first, since it might work.

InvizBox also has pluggable transport support. We support [obfs2](#), [obfs3](#) and [scramblesuit](#) bridges. Only use these bridge types if normal bridges are blocked for you.

To use Bridges on InvizBox. Input the bridges into the textbox and click "Save & Apply". You can get usable bridges from [here](#).

Tor Status and Configuration

Tor Status

Bridge Configuration

Proxy Configuration

Country Options

Bridge Configuration

 Please enter in the bridges you want Tor to use, one per line.
The format is : "ip:port [fingerprint]" where fingerprint is optional. e.g. 121.101.27.4:443 4352e58420e68f5e40ade74faddccd9d1349413.
To get bridge information, see the [Tor bridges page](#).

InvizBox also has pluggable transport support. We support [obfs2](#), [obfs3](#) and [scramblesuit](#) bridges. Only use these bridge types if normal bridges are blocked for you.

Save & Apply

Save

Reset

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Proxy Configuration

InvizBox has the ability to configure Tor to use any HTTPS or SOCKS proxy to get access to the Tor Network. This means even if Tor is blocked by your local network, open proxies can be safely used to connect to the Tor Network and on to the uncensored Internet. A caveat is that the open proxy host will see you are using Tor, but it will not be able to read your traffic as it is still wrapped in layers of encryption.



These steps assume you have a valid proxy of type HTTPS, SOCKS4, or SOCKS5. (To clarify, an HTTPS proxy is an HTTP proxy that also supports CONNECT requests.)

Tor Status and Configuration

Tor Status

Bridge Configuration

Proxy Configuration

Country Options

Proxy Type

None

Proxy IP Address

192.168.1.5

Port

80

Username

optional

Password

optional

Save & Apply

Save

Reset

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1. Choose the Type of proxy you are using, whether HTTP/HTTPS, SOCKS4, or SOCKS5.
2. Proxy IP Address: Enter the open proxy address. This can be a hostname or IP Address.
3. Port: Enter the port for the proxy.
4. Generally, you do not need a Username and Password. If you do, enter the information in the proper fields.
5. Once you change any of these click the “**Save & Apply**” button on the bottom of the screen.
6. Tor will restart and the status can be seen on the Tor Status tab.

Country Configuration

InvizBox has the ability to configure which exit nodes Tor uses. There are multiple options detailed below

1. Use any exit node (default)
This is the Tor default. Tor will decide the best route using this method.
2. Exclude "Five Eyes" countries
This option will exclude Australia, Canada, New Zealand, the United Kingdom and the United States for the Tor route selection.
3. Allow only countries selected below



This option allow you to select from the list below and **only use those selected Countries as exit Nodes**

4. Do not use countries selected below

This option allow you to select from the list below and **it will exclude using those selected Countries as exit Nodes**

Tor Status and Configuration

Tor Status

Bridge Configuration

Proxy Configuration

Country Options

Country Config

Use any exit node (default)

Countries: (hold ctrl to select multiple)

Anonymous Proxies
 Argentina
 Asia/Pacific Region
 Australia
 Austria
 Belarus
 Belgium
 Brazil
 Bulgaria
 Cambodia
 Canada
 Chile
 Colombia
 Costa Rica
 Croatia

Save & Apply

Save

Reset

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N.B - From Tor Project *We recommend you do not use these* — they are intended for testing and may disappear in future versions. You get the best security that Tor can provide when you leave the route selection to Tor; overriding the entry / exit nodes can mess up your anonymity in ways we don't understand.

Tor Advanced Configuration

InvizBox now has the ability to edit the `/etc/tor/torrc` config file from the GUI. You can use this section to write any config options from the [Tor Project manual](https://www.torproject.org/docs/faq.html.en)




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Notes:

Changing this config will overwrite any changes you have made in the normal Tor Config section. Also be aware that an incorrect option here can break Tor and possibly affect your anonymity.

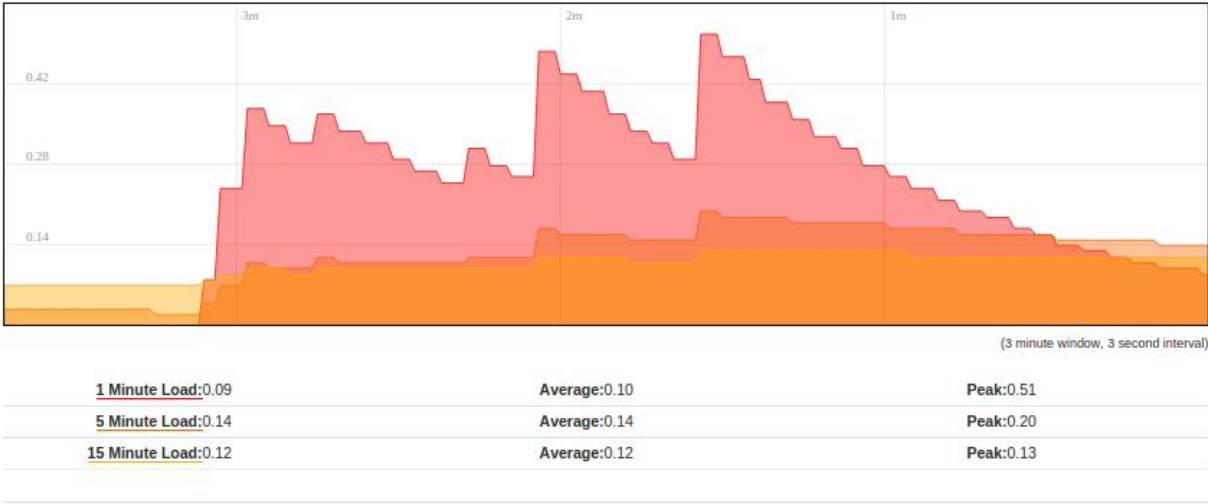
Realtime graphs

Load

This shows the realtime load on the router for 1 min, 5 min and 15 min. Fairly self explanatory, but if not read more on load statistics [here](#)



Realtime Load





Traffic

To check the traffic flow on any of the interfaces WAN,Tor,LAN,Wifi etc. Open Realtime GRaphs -> Traffic. It shows the Inbound/Outbound Average and Peak traffic rates.

Realtime Traffic

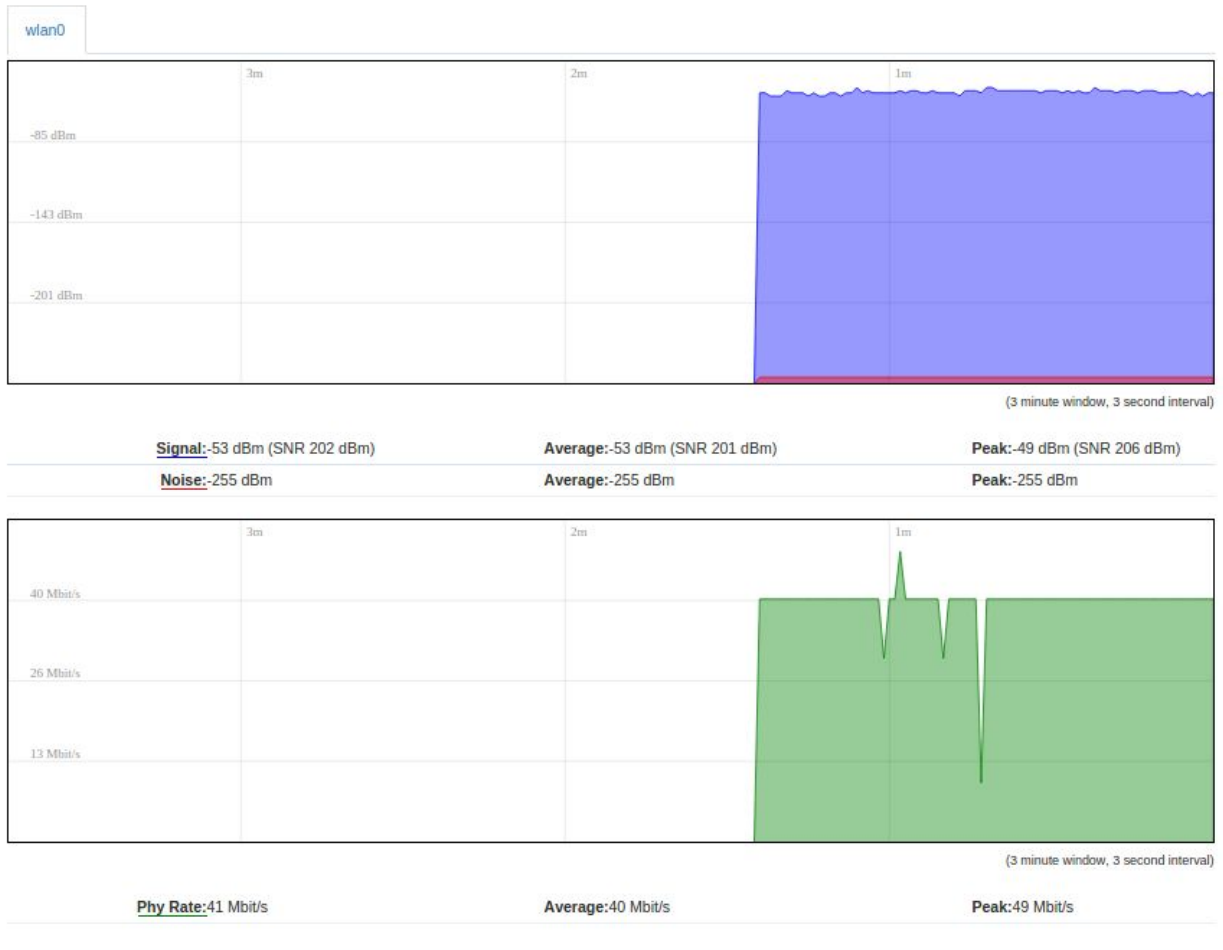




Wireless

The Wireless section show the realtime graphs for Signal, Noise and Physical Rate.

Realtime Wireless





Connections

This section gives an overview of all the currently active connections on the router both source and destination.

Realtime Connections

This page gives an overview over currently active network connections.

Active Connections



(3 minute window, 3 second interval)

<u>UDP</u> :0		Average:0		Peak:4
<u>TCP</u> :6		Average:6		Peak:7
<u>Other</u> :0		Average:0		Peak:0
Network	Protocol	Source	Destination	Transfer
IPV4	TCP	192.168.0.1	5.1.1.1	55.97 KB (122 Pkts.)
IPV4	TCP	192.168.0.1	62.1.1.1	30.88 KB (82 Pkts.)
IPV4	TCP	192.168.0.1	4.1.1.1	24.03 KB (58 Pkts.)
IPV4	TCP	10.101.1.1	10.1.1.1	19.15 KB (114 Pkts.)
IPV4	TCP	192.168.0.1	1.1.1.1	15.74 KB (41 Pkts.)
IPV4	TCP	192.168.0.1	195.15.1.1	9.73 KB (27 Pkts.)



Flash

Periodically InvizBox will release a new firmware. This is the section where you upload and apply that firmware. Only ever flash official InvizBox firmware. We can't assist if you start tinkering with other firmwares.

Dont worry the flash procedure is pretty straightforward.

Flash operations

Flash new firmware image

Upload an official InvizBox firmware. Please visit <https://invizbox.com> for official firmwares.

Keep settings: ☐

Firmware image:

No file selected.

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To install a new firmware follow these simple steps

1. Download official firmware from [our firmware page](#).
2. Take note of the listed "Checksum" on the InvizBox website.
3. On the InvizBox router, in the Flash section click "Choose File" and select the official firmware that you downloaded.
4. Click "Flash Image".

Wait a few second whilst the firmware is uploaded to the InvizBox. A page similar to the below should appear.

Flash Firmware - Verify

The flash image was uploaded. Below is the checksum and file size listed, compare them with the original file to ensure data integrity.
Click "Proceed" below to start the flash procedure.

- Checksum: **d020155062b3f6aa5d86db1eaa2b1bcd**
- Size: 7.00 MB (15.69 MB available)
- Note: Configuration files will be erased.

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Verify that the “Checksum” displayed matches the corresponding one on the firmware download page that you took note of earlier. **If they do not match click “Cancel”**. If everything matches then go ahead and click “Proceed”. Wait Approx 120 seconds for the flash to complete and for the InvizBox to reboot. That’s it.

Note: *All settings and any password changes will be erased / reset by flashing. Please use the password supplied with the InvizBox to connect to both Wifi and Administration UI.*

Reboot

To reboot the InvizBox. Click “Reboot InvizBox”. Yes its that simple.

System

Reboot

Reboots the operating system of your device

Warning: There are unsaved changes that will be lost while rebooting!

Reboot InvizBox

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The follow page will be displayed showing you everything is in order.

System

Reboot

Reboots the operating system of your device

Warning: There are unsaved changes that will be lost while rebooting!

Please wait: Device rebooting... Please allow 60 seconds to reboot

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Logout

As simple as it sounds. If you wish to Logout. Click “Logout”



Troubleshooting

Reset

Reserved for those moments when something bad has happened and you can't figure it out. You've tried turning it off and on again. Hair is beginning to get pulled. Hard Reset is your friend.

To perform a Hard Reset:

1. Power Off the Invizbox.
2. On the rear of the InvizBox there is a Reset button. (Use a paperclip or similar to push the button)
3. Hold the Reset button and Power on the InvizBox, Keep holding the Reset button for 30 seconds.
4. That's it. You're back to how the InvizBox was when it first arrived.



Misc Recommendations

Please consider using the following plugins:

- [HTTPS everywhere](#)
- [Privacy Badger](#)
- uBlock

Also please look into disabling WebRTC. This is an issue in both Firefox and Chrome which can lead to IP address exposure. There are firewall rules in place in the latest InvizBox firmware to help protect you.

To disable WebRTC in Firefox, enter `about:config` into the address bar, then set `media.peerconnection.enabled` to false (double click works).

Alternatively you can install the NoScript add on.

In Chrome / Chromium the add on available is called WebRTC block. You can alternatively install ScriptSafe. Both are available in the Chrome store.

FCC Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-

Consult the dealer or an experienced radio/TV technician for help important announcement

Important Note:

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.