

Post install steps 06/09/2017

The following instructions are intended for advanced users only. They describe the post install steps to follow in order to allow the wifi dongle or external router to broadcast the data, and the addition of zim files (ie, electronic resources) to the server.

Warning : this documentation is a work in progress. It is today mainly suitable for advanced users, familiar with Linux command line operations. Please keep in mind that we can provide already customized servers that fit your needs, please contact us for specific configurations.

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What you are supposed to have so far

This document assumes that you have installed the Ynibox software on a computer, most likely a laptop PC with an intel i3 or i5 CPU.

What is now needed is the configuration of this machine. Regarding contents, you can add resources (mainly zim files with Wikipedia for instance) for the users to enjoy. You can also tweak the ILS to fit your needs and reflect your books and documents, both paper and electronic.

This computer can be integrated into an existing network (aka LAN). In this case, you'll need an IT technician.

The computer can also broadcast data using a wifi chip.

This document gives clues for both network integration and content addition.

System update and network configuration

Do apt-get update (do NOT dist-upgrade, this would break the ils installation).

Do apt-get upgrade

You can also use software updaters in graphic mode to avoid terminal commands.

Integration of the server in an existing wired network

You'll need an IT for this.

- Fix an ip on the server (or setup a permanent DHCP lease linked to its Ethernet mac address)
- Insert this ip as www.ynibox.lan in the internal DNS. If you don't have DNS server, add www.ynibox.lan to every hosts file in the clients machines. Another possibility is adding the Ynibox server as secondary DNS. You'll just have to configure dnsmasq and etc/hosts on the server.

System modification : method

All modifications can be made using the graphic interface instead of command line for non advanced users.

In the left top program menu (represented by a white mouse icon) select system/task manager. In the first up icon, you can choose Run Program...

Type xterm and hit enter key. A black window opens.

Type sudo thunar and hit enter key. You are asked for a password : type Ynibox56 and hit enter.

A file manager window opens. You can now modify system files using the graphic interface. Please keep in mind you can also destroy everything. Take care.

Boot speeding

Modify /etc/init/failsafe.conf

Modify all sleeps valors to 5.

Wifi dongle adding and configuration

Add a usb wifi dongle. Should be quite good quality : allows 300 mbs transmission and, overall, master mode. The clue is to take a good wifi dongle with external antenna The following examples is made with an additional wifi chipset. It will be call wlan1.

Network

Content of etc/hosts :

```
127.0.0.1    localhost
10.0.1.1    Ynibox
10.0.0.1    www.ynibox.lan
10.0.0.1    ynibox.lan
10.0.0.1    fonts.googleapi.com
10.0.0.1    2.gravatar.com
```

Content of /etc/network/interfaces

```
# interfaces(5) file used by ifup(8) and ifdown(8)
auto lo
iface lo inet loopback

auto wlan1
iface wlan1 inet static
address 10.0.0.1
netmask 255.255.255.0
```

Content of /etc/NetworkManager/NetworkManager.conf

(please change wifi dongle mac adress) : the usb wifi dongle mac adress must be added in networkmanager.conf as unmanaged. To know the hardware (mac) address of the dongle, you can type ifconfig in a terminal.

```
[main]
plugins=ifupdown,keyfile,ofono
```

```
dns=dnsmasq
```

```
#ignore internal wifi chipset for allowing hostapd to create a hotspot
```

```
[keyfile]
```

```
unmanaged-devices=mac:ec:08:6b:19:85:49
```

```
[ifupdown]
```

```
managed=false
```

Content of /etc/hostapd/hostapd.conf

```
auth_algs=1  
beacon_int=50  
channel=1  
country_code=FR  
disassoc_low_ack=1  
driver=nl80211  
hw_mode=g  
ht_capab=[HT40+][HT40-][SHORT-GI-40][RX-STBC1]  
ieee80211d=1  
ieee80211n=1  
interface=wlan1  
ssid=Ynibox  
wmm_enabled=1  
wpa_key_mgmt=WPA-PSK  
wpa_pairwise=TKIP  
wpa=2  
wpa_passphrase=Ynibox12345678
```

Content of /etc/dnsmasq.conf

```
interface=wlan1  
except-interface=wlan0  
dhcp-range=10.0.0.2,10.0.0.52,12h  
listen-address=10.0.0.1  
localise-queries  
local=/lan/  
domain=ynibox.lan  
expand-hosts  
addn-hosts=/etc/hosts.dnsmasq  
no-negcache  
log-facility=/var/log/dnsmasq.log
```

Alternative way : configuration of a modem router attached to the server

This solution is better for handling a great numbers of clients and improve stability of the wifi network. The basic idea is to connect a router to the Ethernet port of the server. This router will handle the wifi access without any password.

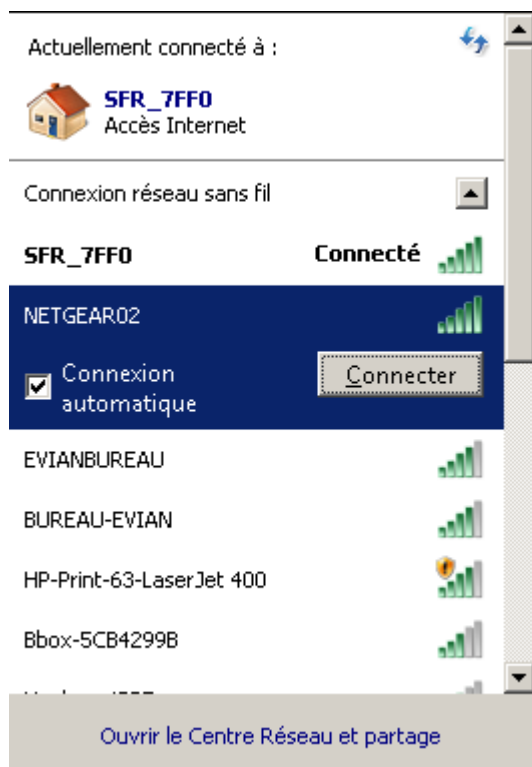
Unboxing and configuration restore

The router used is a Netgear N300 wireless router WNR2000 v4. It has been chosen because of its reliability, affordability. Can be powered in 12V and therefore by a solar panel. 4 ethernet ports available for connecting laptops and reduce power consumption of wifi chipsets.

Installation and configuration

The router is connected to its charger. When it ends its initialization sequence, a wifi network appears. If not, you can reset the router using a paper clip. The default SSID and password are provided on a sticker with each different router.

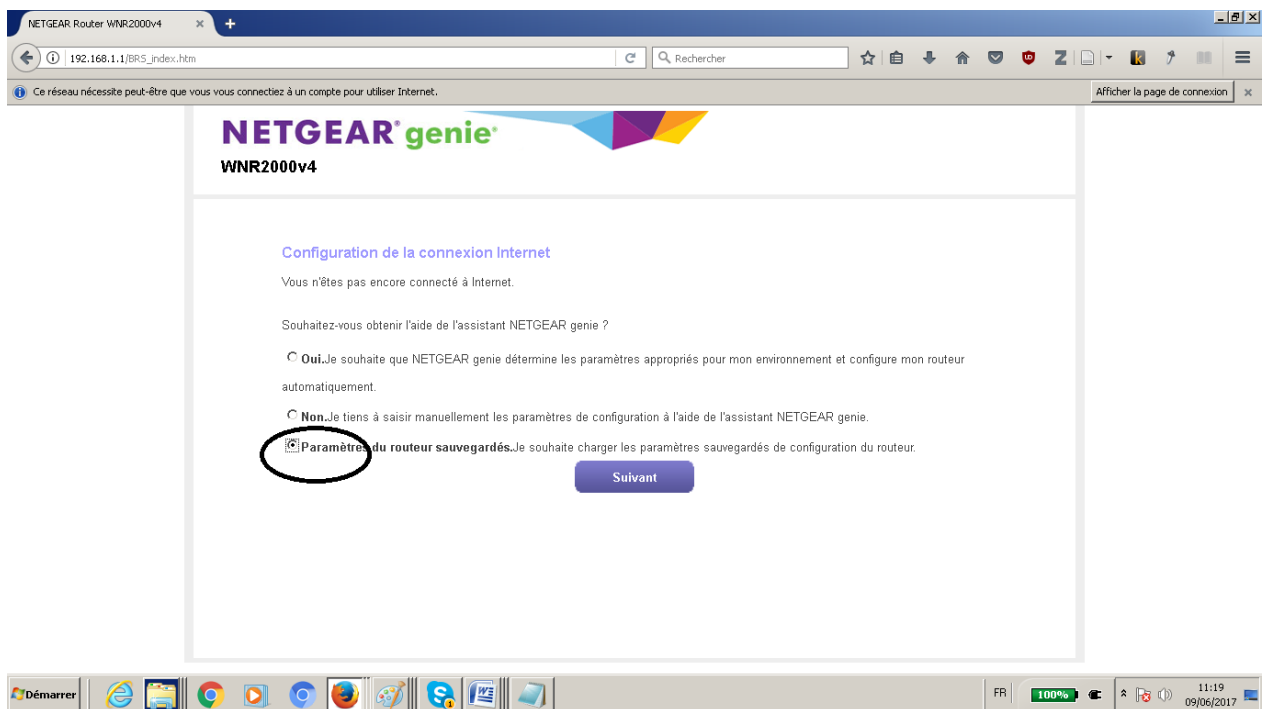
Connect to the wifi :



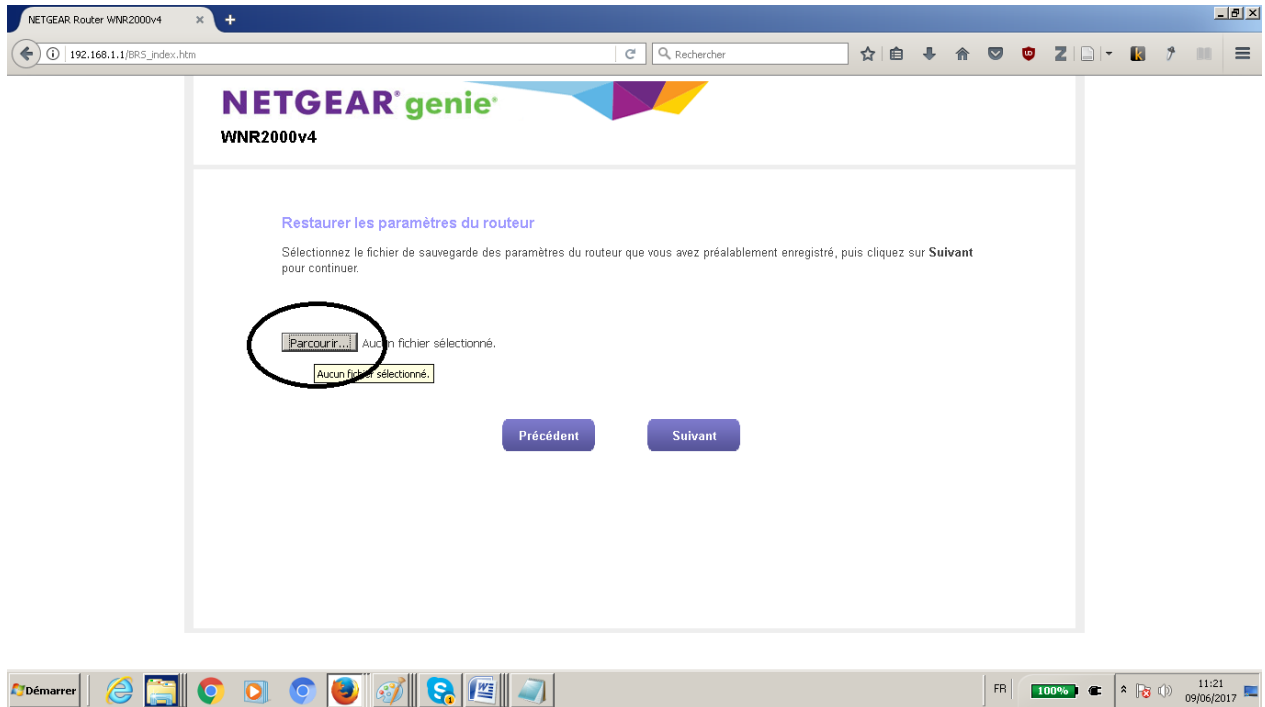
The password is provided on the sticker. You can also use the WPS button for quicker connect.



Once connected, you can launch a web browser (Firefox is a better choice for this). Then connect to the 192.168.1.1 adress. Choose to restore a previous configuration. Click next.



On the next screen click browse to pick up an existing file.



Then upload the file NETGEAR_wnr2000v4.cfg. It can be downloaded here :

http://www.ynibox.org/wp-content/uploads/iso/NETGEAR_wnr2000v4.cfg

Once the file is selected, click next.



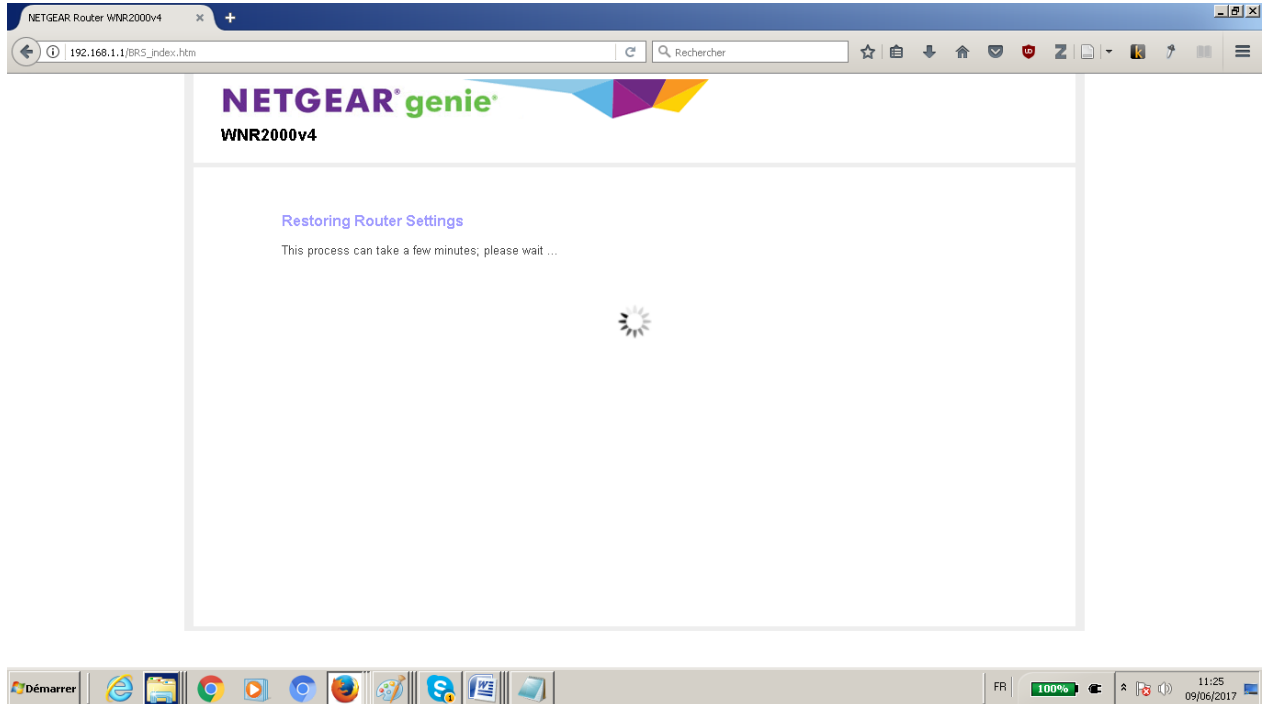
You get a warning popup. Accept it by clicking OK.

Attention!
Restaurer le paramétrage depuis un fichier de configuration effacera tous les paramètres actuels.
Voulez-vous réellement le faire?

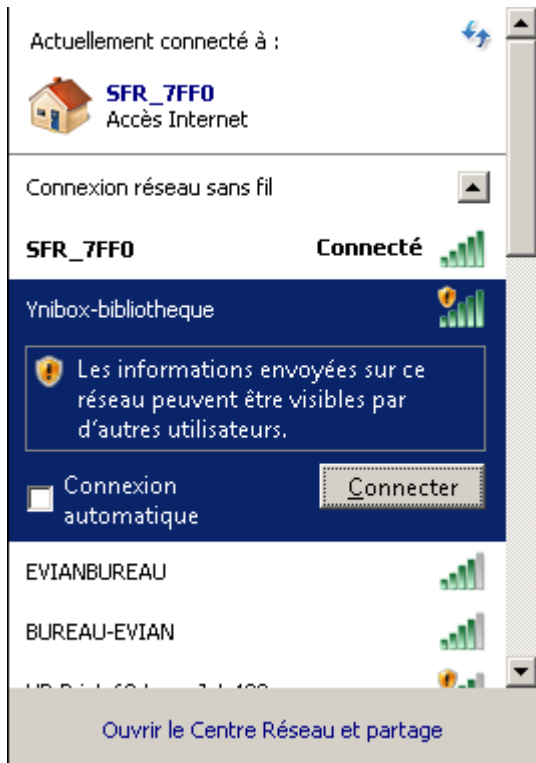
OK

Annuler

The restoration process starts and may take a few minutes.



Your browser should freeze, as the wifi has been modified. Wait 3 minutes then select the Ynibox bibliotheque SSID in the wifi list. No authentication is required.



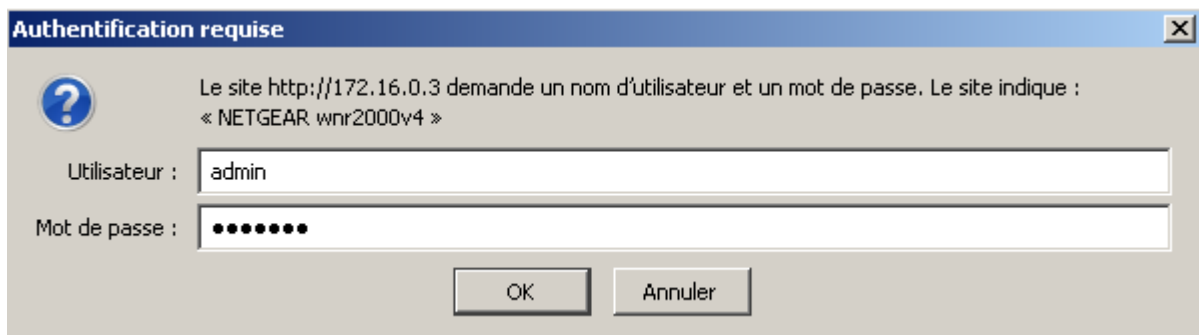
You can now connect an Ethernet cable between the yellow port of the router (named Internet) and the Ethernet socket of the Ynibox server. Restart both. The wifi now grants access to the server contents.

If something goes wrong

Connect to the modem's ip address. Can be 192.168.1.1 by default, or <http://172.16.0.3/index.htm> when the configuration has been restored from the file.

Then compare your configuration to the following screenshot and correct the differences.

You'll need to authenticate. Use admin/password for credentials.



Wireless tab (you can change the network name as you want).

Home | **Internet** | **Wireless Settings** | **Cancel** | **Apply**

Wireless Network

Enable SSID Broadcast

Name (SSID):

Region:

Channel:

Mode:

Security Options

None

WPA-PSK [TKIP]

WPA2-PSK [AES]

WPA-PSK [TKIP] + WPA2-PSK [AES]

WPAWPA2 Enterprise

Internet tab

Internet | **Test** | **Cancel** | **Apply**

Does your Internet connection require a login?

Yes

No

Use Static IP Address

IP Address:

IP Subnet Mask:

Gateway IP Address:

Domain Name Server (DNS) Address

Get Automatically from ISP

Use These DNS Servers

Primary DNS:

Secondary DNS:

Third DNS:

Do not forget to click “apply” after updating the configuration.

Kiwix server (zim handling) : optional

Kiwix commands for updating library.xml

```
cd /usr/local/share/kiwix/bin$
sudo ./kiwix-manage /usr/local/share/kiwix/library.xml add
/usr/local/share/kiwix/zim/wikipedia_fr_all_2015-11.zim
```

This has to be repeated for every single zim.

Zim download and copy

Zims can be downloaded at <https://download.kiwix.org/zim/>

Copy additional zim files in /usr/local/share/kiwix/zim

Copy index files in /usr/local/share/kiwix/index

Indexes can be generated manually. This process can take a very long time.

See the process of creating indexes at

Update of the internal website

Connect to www.ynibox.lan/wp-admin

You need to create html links in the ynibox website (keep in mind to use www.ynibox.lan as url).

Update of Kiwix library : all terrain configuration file

Alternative way : content of standard /usr/local/share/kiwix/library.xml (as it is, on April 2017). Just delete the unused lines if you don't have the zims and indexes on your installation.

```
<?xml version="1.0"?>
<library version="20110515">
  <book id="923605ed-79df-abe7-abe7-acea59744148cedc"
    path="zim/vikidia_en_all_2016-09.zim" indexPath="index/vikidia_en_all_2016-09.zim.idx"
    indexType="xapian" title="Wikidia" description="Encyclopedia for teenagers" language="en"
    creator="Wikidia" publisher="Kiwix"
    favicon="iVBORw0KGgoAAAANSUUhEUgAAADAAAAAwCAMAAABg3Am1AAAABGdB
    TUEAALGPC/xhBQAAAFzUkdCAK7OHOkAAAMAUExURQAAAHx9gMfIyYmKjWBgY
    KaoqsHCw4SFh3FydMDAwXJ0dYuNj4eIi4GDhaur9/f4ImKjLq7vK2ur9nZ2np7fYaHiaKipJS
    WmMzMza2vsejo6d3d3oeIi6SlppeZm62usIWGiOXI5uTk5czMzeLi4+Hh4ubm54yOkH9/gmxtb
    6anqtXU1aSkp7i5u7e4uuHh4t3d3paYmrW2uL/AwYuNj6WnqYSGiIKDhYqLjYSEhdra28LCx
    Hd3d6usrVdXV8jIybu7vXFyc97e38DBwqanqdnZ2pOVmJ+gotPT1ePj5I2PkZCRk5eZnJeXmt7
    e39XV14eIieXl5ubm5+jo6YOFh2Vmaf5eYHJzdY2OkZuanLq6vL6+wNra3KKkptvb3Lm6vKq
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    GipdbV1uPj5PPz9LW3ucDBw8bGyNXW172+v8vMzZmbnaenqLq7vc7P0NbX2Li4unJxcsLCw
    /X19Z2dn8/Q0cHCxLy8veHh4q6vssnJyqSlp/b29/j4+Pr6+rm6vJWXmdjY2amqrO/v8Hh5ep+foI
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    wZLYo3afw92hY/ZarhgTW+7YlbcXrbhv3rfQmEJv2fjxfDav+z865+KzKBtMFz5aZsXF12N
    mtu87wCLSe8iUpgubusAnw/9fNKqOIPr77xhJR38EUmbJxSGdTputmP9CbPT1ZdJLz4NuzIYfi
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```

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mediaCount="3000" size="100" />

<book id="923605ed-79df-abe7-abe7-acea59744148cede"
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indexPath="index/tedxlausannechange-2013_fr_all_2015-03.zim.idx" indexType="xapian"
title="TEDX Lausanne" description="TedX Lausanne" language="fr" creator="Ted"
publisher="Kiwix"
favicon="iVBORw0KGgoAAAANSUHEUgAAADAAAAAAwCAMAAABg3Am1AAAABGdB
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```

Installation of proftpd server : optional

Sudo apt-get install proftpd

Replace /etc/proftpd/proftpd.conf by the following :

```
#
# /etc/proftpd/proftpd.conf -- This is a basic ProFTPD configuration file.
# To really apply changes, reload proftpd after modifications, if
# it runs in daemon mode. It is not required in inetd/xinetd mode.
#

# Includes DSO modules
Include /etc/proftpd/modules.conf

# Set off to disable IPv6 support which is annoying on IPv4 only boxes.
#UseIPv6 on
# If set on you can experience a longer connection delay in many cases.
IdentLookups off

ServerName "Ynibox"
ServerType standalone
DeferWelcome off

MultilineRFC2228 on
DefaultServer on
ShowSymlinks on

TimeoutNoTransfer 600
TimeoutStalled 600
TimeoutIdle 1200

DisplayLogin welcome.msg
DisplayChdir .message true
ListOptions "-l"

DenyFilter \*.*

# Use this to jail all users in their homes
# DefaultRoot ~
```

```
# Users require a valid shell listed in /etc/shells to login.
# Use this directive to release that constrain.
RequireValidShell          off

# Port 21 is the standard FTP port.
Port                        21

# In some cases you have to specify passive ports range to by-pass
# firewall limitations. Ephemeral ports can be used for that, but
# feel free to use a more narrow range.
# PassivePorts             49152 65534

# If your host was NATted, this option is useful in order to
# allow passive tranfers to work. You have to use your public
# address and opening the passive ports used on your firewall as well.
# MasqueradeAddress       1.2.3.4

# This is useful for masquerading address with dynamic IPs:
# refresh any configured MasqueradeAddress directives every 8 hours
<IfModule mod_dynmasq.c>
# DynMasqRefresh 28800
</IfModule>

# To prevent DoS attacks, set the maximum number of child processes
# to 30. If you need to allow more than 30 concurrent connections
# at once, simply increase this value. Note that this ONLY works
# in standalone mode, in inetd mode you should use an inetd server
# that allows you to limit maximum number of processes per service
# (such as xinetd)
MaxInstances                30

# Set the user and group that the server normally runs at.
User                        proftpd
Group                      nogroup

# Umask 022 is a good standard umask to prevent new files and dirs
# (second parm) from being group and world writable.
Umask                      022 022
# Normally, we want files to be overwriteable.
AllowOverwrite              on

# Uncomment this if you are using NIS or LDAP via NSS to retrieve passwords:
# PersistentPasswd        off

# This is required to use both PAM-based authentication and local passwords
# AuthOrder                mod_auth_pam.c* mod_auth_unix.c

# Be warned: use of this directive impacts CPU average load!
# Uncomment this if you like to see progress and transfer rate with ftpwho
# in downloads. That is not needed for uploads rates.
```

```
#
# UseSendFile                off

TransferLog /var/log/proftpd/xferlog
SystemLog   /var/log/proftpd/proftpd.log

# Logging onto /var/log/lastlog is enabled but set to off by default
#UseLastlog on

# In order to keep log file dates consistent after chroot, use timezone info
# from /etc/localtime.  If this is not set, and proftpd is configured to
# chroot (e.g. DefaultRoot or <Anonymous>), it will use the non-daylight
# savings timezone regardless of whether DST is in effect.
#SetEnv TZ /etc/localtime

<IfModule mod_quotatab.c>
QuotaEngine off
</IfModule>

<IfModule mod_ratio.c>
Ratios off
</IfModule>

# Delay engine reduces impact of the so-called Timing Attack described in
# http://www.securityfocus.com/bid/11430/discuss
# It is on by default.
<IfModule mod_delay.c>
DelayEngine on
</IfModule>

<IfModule mod_ctrls.c>
ControlsEngine    off
ControlsMaxClients 2
ControlsLog       /var/log/proftpd/controls.log
ControlsInterval  5
ControlsSocket    /var/run/proftpd/proftpd.sock
</IfModule>

<IfModule mod_ctrls_admin.c>
AdminControlsEngine off
</IfModule>

#
# Alternative authentication frameworks
#
#Include /etc/proftpd/ldap.conf
#Include /etc/proftpd/sql.conf

#
# This is used for FTPS connections
```

```

#
#Include /etc/proftpd/tls.conf

#
# Useful to keep VirtualHost/VirtualRoot directives separated
#
#Include /etc/proftpd/virtuals.conf

# A basic anonymous configuration, no upload directories.

<Anonymous ~ftp>
  User          ftp
  Group         nogroup
  # We want clients to be able to login with "anonymous" as well as "ftp"
  UserAlias     anonymous ftp
  # Cosmetic changes, all files belongs to ftp user
  DirFakeUser  on ftp
  DirFakeGroup on ftp
#
  RequireValidShell  off
#
  # Limit the maximum number of anonymous logins
  MaxClients         10
#
# # We want 'welcome.msg' displayed at login, and '.message' displayed
# # in each newly chdir'd directory.
  DisplayLogin       welcome.msg
  DisplayChdir       .message
#
  # Limit WRITE everywhere in the anonymous chroot
  <Directory *>
    <Limit WRITE>
      DenyAll
    </Limit>
  </Directory>
#
# # Uncomment this if you're brave.
# # <Directory incoming>
# # # Umask 022 is a good standard umask to prevent new files and dirs
# # # (second parm) from being group and world writable.
# # Umask          022 022
# #   <Limit READ WRITE>
# #   DenyAll
# #   </Limit>
# #   <Limit STOR>
# #   AllowAll
# #   </Limit>
# # </Directory>
#
</Anonymous>

```

```
# Include other custom configuration files
Include /etc/proftpd/conf.d/
```

Customization of proftpd welcome message (optional) :

```
add in /srv/ftp/welcome.msg
```

Welcome on the Ynibox server

You can download the following resources on your own device. Please check the associated licence before redistributing or sharing with others.