

Amnesia VPN

Instructions for self-host, setup, configure and tweak a VPN server

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Amnezia VPN Client setup guide.

Downloading Amnezia VPN Client

Go to the below link and download the version for your OS your running.

<https://amnezia.org/en/downloads>

Android App

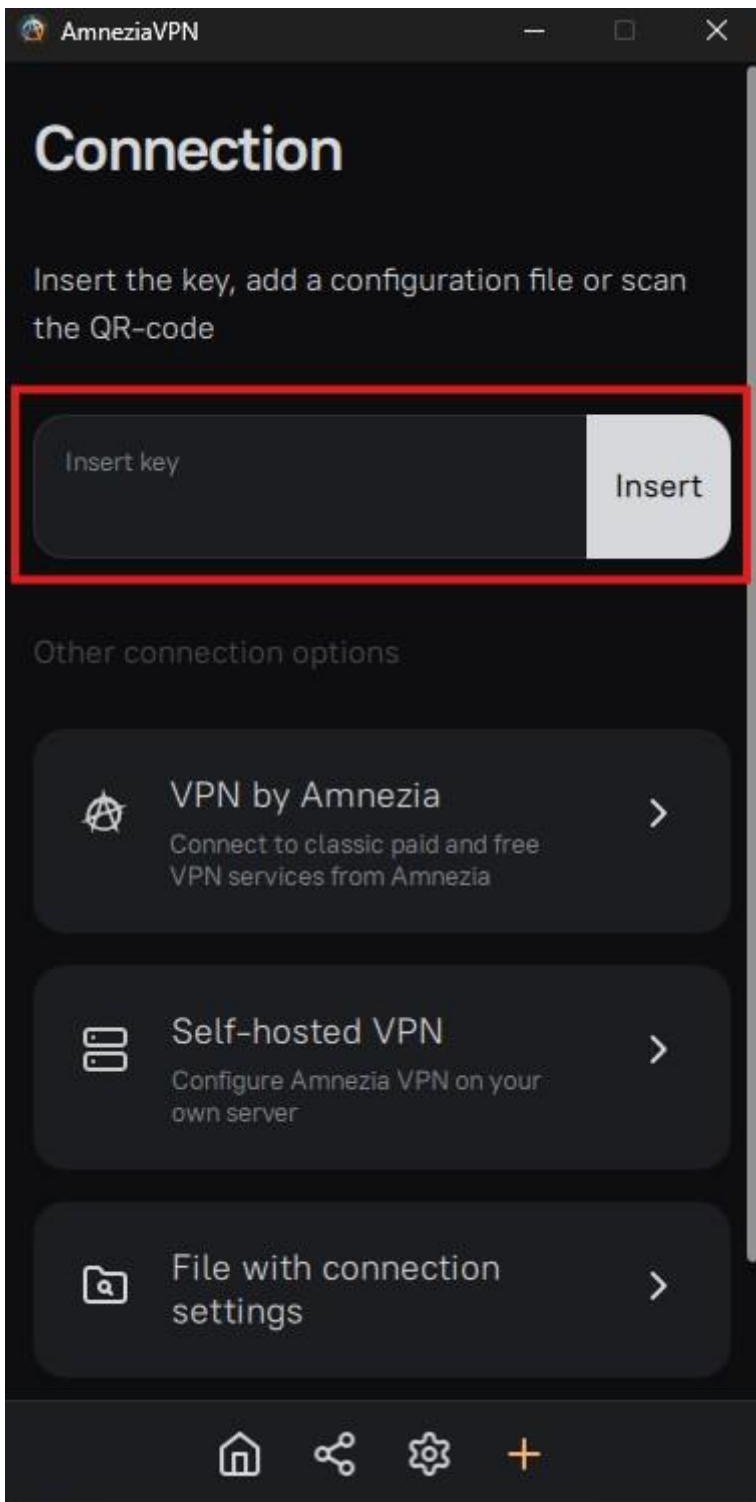
<https://play.google.com/store/apps/details?id=org.amnezia.vpn>

iOS App

<https://apps.apple.com/us/app/amneziavpn/id1600529900>

Setup client VPN key

After you download and install the app, open it and you will see the below screen.



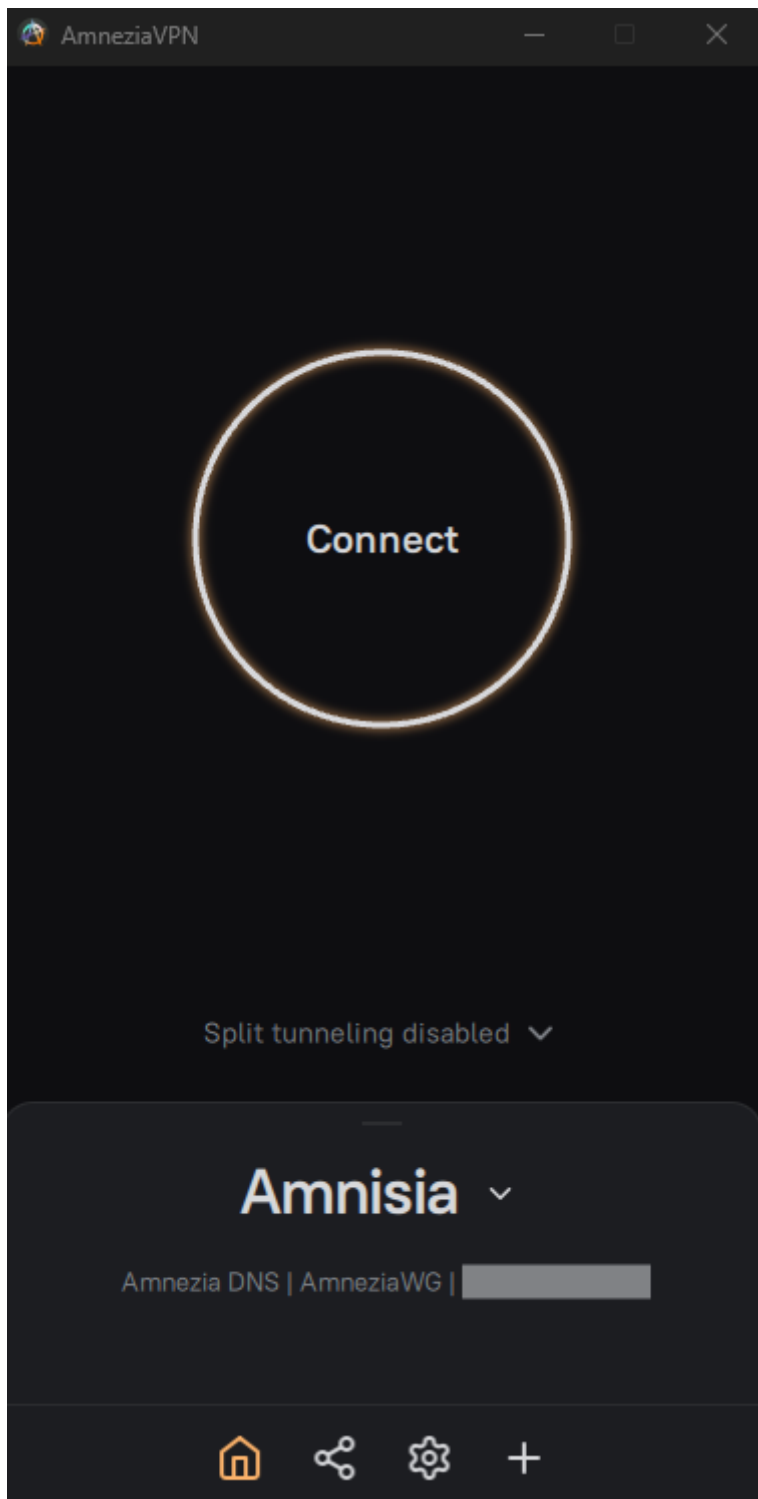
At that FIELD inside the RED square you will COPY - PASTE the KEY that you have received from your VPN provider.

The below is a KEY example, you should copy ALL THE TEXT of the key that you receive.

```
vpn://AAS0VI5k1rEiqnMw6VeQ0zuUb6JAGH33VxjSt7qU02rSB1wbq26VSrc3acwIo47KQAEvbeN_37koYJZ96KqJH-ec-  
W7zMfNVqZKP4IU4BQjDKxRBMF6He6gP0FRQs5gK70aEPgcZcSsTXJAVw9QkQ5dUoVaiUZhg1U3ZMBRVKtWoVK0bjbok1xu  
NUo1GJYqsaXLdrEulbnoe05RSAdizG0ULA4RZlqWsI_PsSj1WnVHKrUGSTkiHZ4i2T_hyMYVd0jWXPLuFvrlCLS0VI5k1r  
EiqnMw6VeQ0zuUtKpA970gWmDKSo7szKenFMYUi7Min0EXwmKxRBMF6He6gP0FRQtKxxzkniex7lXvmeLNJIY68ZZ68NYI
```

47fo8yPYliELNMfDj5Y1pK6urgTGfDrdxp3Xr18F09rTcJ84obdxJ0nUhHe6EZHMqSqyLsqj9rYhitJ2s4AfXzQJzZ6yt1
p00XHadV3kXP-LL9-FI66iyiVuoH9e94Pky7L4kWbaa5q_9NnE00dzHu4hTGM-
DBN9fFlu_HMEmq19VTNVecQvD2wCHYhT3q3lmjwl5rFUvnJufw0H7-
ExENikTpLAPP4j2W1W6u0eRNTQSHRIWntlgt2yd2o5MLZNaCrEMat1SrDDrBKFcYcAJorJ1p6kmgEYj5aPsYvIb2xDGtAH
2ZrpGHi-h2w5l1W9Il5anBJ0IbKyRadsj2xq2A6nrByiVuoH9e94PkmTWpkwIIY-X_04f4_uF-
999Ny37ha_5Id9K2i9eM6w9bzsP_k73_rchEvg7V4lutris92laf0zYa5V2fy6-
Ab7UYhwSsi6KioK2ZuGIcqK1lR1XdVpeHLUoiQlM9KHMAJrtIW0UEoVtn4RJukABJBv_rmgixIN6fDwjQKeJQFIUMIowk
LczwA9KIujFMKs-RyNFnl_s_ut_uSeExhvYXz-
Gnxro8hZcHBx2a1Kk6bHyiVuoH9e94PkMA2pduNHwpnwCL4uvwepGgQYfiLwg157mexQSOVI5k1rEiqnMw6VeQ0zuULFKE
pRyK4XK8AoQSBjccLvT1MRlybI_nStwPKbk03Z6WrNRoNS54MhVA6VPz-HBNg

After you insert your key you will see a screen like the below and just press CONNECT to make your VPN connection.



You are ready to go.

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Useful scripts for VPS VPN Servers

Below there are some useful script that you can run to your Linux VPS or VPN or what ever Linux machine or server you have.

Unattended Upgrades Debian - Ubuntu

To install these packages, run the following command as root:

```
apt-get install -y unattended-upgrades apt-listchanges
```

more information at page [Unattended Upgrades Debian - Ubuntu](#)

Auto Update - Upgrade a Linux machine

The below script is to auto update - upgrade - remove - clean a Linux machine or Server.

Attachment Link [os-update.sh](#)

more information at page [Auto Update - Upgrade a Linux machine](#)

Empty ALL LOGs

The below script scan all files with extension .log then empty all log files.

Attachment Link [empty_log_files.sh](#)

more information at page [Empty ALL LOGs on a Linux Server](#)

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Amnezia VPN Server settings

Download and update adblocker list for dnscrypt proxy

Creating the script

Open the terminal and type the below command :

```
nano update-adblocker.sh
```

and then copy / paste the below code inside the file "update-adblocker.sh"

```
#!/bin/bash
# Name: update-adblocker.sh
# Purpose: Download and update adblocker list for dnscrypt proxy
# Usage: Call it from the CLI or cron job https://www.cyberciti.biz/faq/how-do-i-add-jobs-to-cron-under-linux-or-unix-oses/
DEST="/etc/dnscrypt-proxy/blocked_names.txt"
#
# Blocks both adware + malware
# See for other lists https://github.com/StevenBlack/hosts
#SRC="https://raw.githubusercontent.com/StevenBlack/hosts/master/alternates/gambling-porn/hosts" Hosts 224.828
#SRC="https://hosts.ubuntu101.co.za/hosts" Hosts 698.866
#SRC="https://download.dnscrypt.info/blacklists/domains/mybase.txt" Hosts 465.625
SRC="https://hosts.ubuntu101.co.za/hosts"
TMP_B_FILE="$(mktemp)"
TMP_B_FILE_SORTED="$(mktemp)"
wget --timeout=10 --tries=5 -qO- "${SRC}" | grep -Ev "(localhost)" | grep -Ev "#" | sed -E "s/(0.0.0.0 |127.0.0.1 |255.255.255.255 )//" >> "${TMP_B_FILE}"
awk '/^[^#]/ { print $1 }' "${TMP_B_FILE}" | sort -u > "${TMP_B_FILE_SORTED}"
cp -f "${TMP_B_FILE_SORTED}" "$DEST"
rm -f "${TMP_B_FILE}" "${TMP_B_FILE_SORTED}"
sleep 5
systemctl restart dnscrypt-proxy.service
```

then press **Ctrl + x** it will prompt you [Save modified buffer?] press **y** and **enter**

Make the script executable

After that you need to make the script executable, so you will write the below command :

```
chmod +x update-adblocker.sh
```

Add the script to cron job to run automatically

To run the script daily follow the below steps, you can change according to your need.

```
crontab -e
```

then go at the end of the file and add the below line, change the `your_path` with your folder where the script is locate.

```
@daily /your_path/update-adblocker.sh
```

then press **Ctrl + x** it will prompt you [`Save modified buffer?`] press **y** and **enter**

You are done the script in the location `/your_path/os-update.sh` it will automatically run daily.

Download the script update-adblocker.sh

Attachment Link [update-adblocker.sh](#)

Below is the settings for the script that it will run daily with cron job to auto update the DNS servers.

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Settings dnscrypt-proxy.toml

This is a working example, copy / paste the below code inside your file **dnscrypt-proxy.toml**

```
# Empty listen_addresses to use systemd socket activation
listen_addresses = ['127.0.0.1:53']
#listen_addresses = ['127.0.0.1:53', '172.29.172.1:53', '172.17.0.1:53']
server_names = ['cloudflare']

## Manual ADD
ipv4_servers = true
ipv6_servers = false
dnscrypt_servers = true
doh_servers = true
require_dnssec = false
require_nofilter = true

# Server must not log user queries (declarative)
require_nolog = true

## How long a DNS query will wait for a response, in milliseconds
timeout = 2500

## Keepalive for HTTP (HTTPS, HTTP/2) queries, in seconds
keepalive = 30

#netprobe_timeout = 60

#####
#           DNS cache           #
#####
## Enable a DNS cache to reduce latency and outgoing traffic
cache = true
## Cache size
cache_size = 512
## Minimum TTL for cached entries
cache_min_ttl = 600
## Maximum TTL for cached entries
cache_max_ttl = 86400
## Minimum TTL for negatively cached entries
```

```
cache_neg_min_ttl = 60
## Maximum TTL for negatively cached entries
cache_neg_max_ttl = 600

[blocked_names]
blocked_names_file = '/etc/dnscrypt-proxy/blocked_names.txt'

#[query_log]
# file = '/var/log/dnscrypt-proxy/query.log'

#[nx_log]
# file = '/var/log/dnscrypt-proxy/nx.log'

[sources]
[sources.'public-resolvers']
urls = ['https://raw.githubusercontent.com/DNSCrypt/dnscrypt-resolvers/master/v3/public-
resolvers.md', 'https://download.dnscrypt.info/resolvers-list/v3/public-
resolvers.md']
minisign_key = 'RWQf6LRCGA9i53mlYec04IzT51TGPpvWucNSCh1CBM0QTaLn73Y7GF03'
cache_file = 'public-resolvers.md'
```

You can change it according to your needs.

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Settings for resolv.conf

Below is the correct setting of the file **resolv.conf** so all the DNS request to resolve through the DNSCrypt-proxy.

The file is located at the **/etc/resolv.conf**

Open the terminal and type the below command :

```
nano /etc/resolv.conf
```

Remove EVERYTHING inside that file OR just COMMENT all the lines by adding [#] at the beginning of each line.

Add the line below by copy / paste it inside the file "**resolv.conf**"

```
nameserver 127.0.0.1
```

then press **Ctrl + x** it will prompt you [Save modified buffer?] press **y** and **enter**

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