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**wg-client**

***Release 6.8.0***

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## WG-CLIENT

### 1.1 Overview

Linux wireguard client tools make it simple to start and stop wireguard. Comes with command line tool, *wg-client*, and a convenient GUI tool which uses it.

This is a companion to the wireguard server config tools *wg-tool*.

Also provides an option to invoke ssh which creates a remote listening port connected back to local ssh daemon.

This can be useful to facilitate remote ssh back to client computer if it's needed. For example; it can be used to provide access to a git repo on the client, or for remote backups of laptop, or even for admin to login to client should the need arise.

There is a command line program (*wg-client*) and for user convenience there is a GUI program (*wg-client-gui*) which is available via a *.desktop* file.

The graphical tool invokes the command line tool, and the command line tool does all the real work. The GUI provides user convenience.

All git tags are signed with [arch@sapience.com](mailto:arch@sapience.com) key which is available via WKD or download from <https://www.sapience.com/tech>. Add the key to your package builder gpg keyring. The key is included in the Arch package and the source= line with *?signed* at the end can be used to verify the git tag. You can also manually verify the signature

### 1.2 Why I made wg-client

After building *wg-tool* which simplified administering wireguard servers, I needed a simple way for non-tech users to connect their laptops to the server.

Thus *wg-client* was born. The gui client makes it simple for non-tech users, though I find it convenient too.

### 1.3 Key features

- Graphical tool makes it simple for any user to get VPN running.
- Standalone tool makes it easy to test and also keeps sudo outside of gui to minimize any security implications. The gui relies on command line to do the real work.

### 1.4 New or Interesting

- Improve logging when ssh listener exits. Nicer format for how long ssh has been running when it is auto restarted.
- ssh listener is now auto restarted if it exits unexpectedly. There are normal, quite common situations where ssh process can exit prematurely. For example:

- After sleep/resume (longer than tcp timeout)
- if remote server sshd restarts (reboot for example)
- changing IP address (happens when location changes. e.g. Move from hotel to starbucks)

Code now detects this and automatically restarts the ssh listener.

This is now much more convenient for the user. wireguard itself is robust against the same changes since it uses udp, and now just start vpn and start ssh and the app will handle keeping everything running. If ssh cannot reconnect, it waits a while and tries again.

- Auto fix of resolv.conf (new option *-fix-dns-auto-start*)

Network refresh often happens after sleep/resume (e.g. laptop lid close/open) or when a DHCP lease expires. If VPN is up and running when this occurs the `/etc/resolv.conf` file can be reset and then DNS will no longer use the vpn DNS but will then use whatever resolver DHCP provided by default. Earlier versions of wg-client offered a manual fix available by clicking the *VPN Start* button again or by using wg-client on command line.

This is now done automatically using a daemon which can be started/stopped from command line using the new options *-fix-dns-auto-start* and *-fix-dns-auto-stop*

NB: The GUI app calls *wg-client* to start the monitor daemon when it starts up wireguard.

- NB version 5 has 2 additional dependencies:
  - openssl library for wg-fix-resolv.c
  - python-pynotify library available via [Pynotify Github](#) and [Pynotify AUR](#)
- dns resolv.conf fix now uses capabilities.

## GETTING STARTED

### 2.1 wg-client application

#### 2.1.1 Usage

To use run from a terminal. For example to start wireguard from a terminal, use:

```
wg-client --wg-up
```

To get a list of options run it with `-h`. Options are also documented in config section [config-sect](#) below.

#### 2.1.2 DHCP refresh & sleep / resume

When laptop sleeps, from lid close for example, and then woken up - the vpn will continue working as normal and likewise the ssh provided the sleep time is not *too long*. However, on wake the networking is typically re-initialized and part of that may re-install the dns resolver file `/etc/resolv.conf`.

This is handled automatically by the resolv monitor daemon. See the option `-fix-dns-auto-start` for more information.

#### 2.1.3 Configuration

wg-client reads its configuration from

```
/etc/wg-client/config
```

Please copy the sample config and edit appropriately. The format is in *TOML* format.

```
# Sample
iface = 'wgc'
ssh_server = 'vpn.example.com'
ssh_pfx = '47'
```

This config file provides:

- `iface` - required  
Wireguard interface; defaults to `wgc`. It is `<iface>` of `/etc/wireguard/<iface>.conf`
- `ssh_server` - optional  
Hostname of the remote ssh server accessible over the vpn; this is where the ssh listening port is run. Hostname must be accessible over the wg vpn.
- `ssh_pfx` - used with `ssh_server`

1 or 2 digit number, 65 or smaller, to be used as ssh listening port number prefix. The port number is of the form PPxxx, with *PP* the prefix and *xxx* is taken from the last octet of the wireguard vpn internal IP address.

The prefix can also be given as a range of numbers (*'n-m'*). In this case the prefix used is randomly chosen from that range

Keep in mind that the largest port number is 65535, which limits *ssh\_pfx* to be 65 or lower.

The port number chosen will be written to the log file.

The remote ssh host will then listen on *127.0.0.1:<port>*. It will also listen on *<remote-ip-address>:<port>* provided the remote ssh server permits it by having the sshd option set:

`GatewayPorts yes`

## 2.1.4 Options

Summary of available options for wg-client.

**Positional argument** : Optional

- wireguard client interface name

Default interface is taken from *iface* in config file. The config file is chosen by first checking for */etc/wg-client/config*<sup>1</sup> and then in */etc/wg-client/config*. If not found the wg interface defaults to *wgc*

**Options:**

- (*-h, -help*)

Show this help message and exit

- (*-wg-up*) and (*-wg-dn*)

Start and stop wireguard client

- (*-ssh-start*)

ssh to remote server over vpn and listen on remote port. Port number used is described above in Overview section *config-sect*.

This blocks waiting for ssh. To stop ssh, simply make a separate invocation of *wg-client -ssh-stop*. If using the GUI tool, simply click the *Stop Ssh* button.

In the event that ssh connection is dropped, it will automatically be restarted. There are normal, quite common situations where ssh process can exit prematurely. For example:

- After sleep/resume (longer than tcp timeout)
- if remote server sshd restarts (reboot for example)
- changing IP address (e.g. happens when location changes. e.g. Move from hotel to starbucks)

While attempting to reconnect ssh there is a waiting period between each attempt. Currently the wait time is 30 seconds.

- (*-ssh-stop*)

End ssh to remote server

- (*-ssh-pfx*)

Set the ssh port prefix. Can be 2 digits: “nn” or a range “nn-mm”. If using a range, then prefix will be randomly drawn from the range. Maximum value is 65. This can also be set in the config file.

---

<sup>1</sup> Useful during development and testing



- (*-ssh-server*) <server>

Remote ssh server to set up listening port. This is usually set in the config file.

- (*-fix-dns*)

This has been automated by the monitor daemon. See *-fix-dns-auto-start*

Restore wireguard dns resolv.conf. Typical use is after sleep resume when the network is set up it can mess up the resolv.conf file - this restores the correct version.

This will also be done by GUI, if needed, by simply clicking the Start VPN button.

wg-client relies on *wg-fix-resolv* program which is granted CAP\_CHOWN and CAP\_DAC\_OVERRIDE capabilities to enable it to restore the right */etc/resolv.conf* file.

- (*-fix-dns-auto-start*)

Auto fix of resolv.conf

Network refresh happens after sleep/resume (e.g. laptop lid close/open) or when a DHCP lease expires. If VPN is up and running when this occurs the */etc/resolv.conf* file can be reset and then DNS will no longer use the vpn DNS. Earlier versions of wg-client offered a manual fix available by clicking the *VPN Start* button again or by using *wg-client* on command line.

When *wg-client* starts the vpn, it saves the current */etc/resolv.conf* and installs one that uses the vpn tunnel and this is what gets broken on resume.

This is now done automatically using a daemon which can be started/stopped from command line using the new options *-fix-dns-auto-start* and *-fix-dns-auto-stop*

The GUI app does this whenever it starts wireguard.

The monitor daemon watches */etc/resolv.conf* and auto restores the correct one when needed. It uses inotify whereby the kernel notifies us when the file changes - this is very efficient and allows the monitor to sleep waiting for the kernel to wake it up when there's something to do.

Wireguard will continue to work even if the laptop is taken to a new wifi location. The monitor checks and saves any newly found resolv.conf and restores the wireguard one. Of course on closing down, the original saved resolv.conf is restored as well. Note that ssh will not survive changing networks but it can easily be restarted and the code will automatically reconnect if possible.

- (*-fix-dns-auto-stop*)

Stops the monitor daemon.

- (*-show-info*, *-status*)

Report all info. If run as root then it additionally shows status of any ssh/resolv monitor for all users.

- (*-show-iface*)

Report wireguard interface name used.

- (*-show-ssh-server*)

Report the ssh server name

- (*-show-ssh-running*)

Report if ssh is active

- (*-show-wg-running*)

Report if wireguard is active

- *(--show-fix-dns-auto)*  
Report if auto fix dns is running
- *(--test)*  
Test mode - print what would be done rather than doing it.
- *--version*  
Display wg-client version

## 2.2 wg-client-gui application

### 2.2.1 GUI Usage

The gui is installable using the provided `wg-client.desktop` file and can be added to launchers in the usual way. For example in gnome simply search applications for `wg-client` and right click to pin the launcher. The gui uses PyQt6 which in turn relies on Qt6.

The gui has buttons to start and stop wireguard and a button to run ssh to set up the listener on the host configured in the config file.

The gui should be left running while the vpn is in use. Pressing quit in the gui will shutdown wireguard and shutdown the ssh listener as well.

### 2.2.2 GUI Options

`wg-client-gui` has no command line options. It invokes `wg-client`, and thus the configuration described above [config-sect](#) is used:

```
/etc/wg-client/config
```

## 2.3 Log files

Each application has it's own log file. These are located in users home directory :

```
${HOME}/log/wg-client  
${HOME}/log/wg-client-gui
```

Each of the log files are rotated with companion log suffixed with `.1`

## 2.4 Sudoers

`wg-client` uses `wg-quick` from wireguard tools to start and stop the vpn. and since this requires root to do it's job, any non-root user will need a NOPASSWD sudoers entry.

You can keep all local sudoers in a single file or in separate files. If in single file, make this one come after any group wheel ones. This is to ensure this one is chosen because sudo uses the last matching entry.

Simply add this sample line adjusting WGUSERS to list whatever user(s) are permitted to run wireguard. If more than one use comma separated list as shown below.

```
User_Alias WGUSERS = alice, bob, sally  
WGUSERS ALL = (root) NOPASSWD: /usr/bin/wg-quick  
WGUSERS ALL = (root) NOPASSWD: /usr/lib/wg-client/wg-fix-dns
```

If using separate files, then care is need to ensure this entry comes after any wheel group entries. Where `WGUSERS` is 1 or more usernames or a group such as `%wgusers`.

Then,

```
visudo /etc/sudoers.d/100-wireguard
```

Edit `WGUSERS` as above.

`visudo` enforces the correct permissions which should be `'0440'`. If permissions are too loose, `sudo` will ignore the file.

Why the prefix number? Because `sudo` uses the **last** matching entry and we need to be sure the `NOPASSWD` `wg-quick` entry comes after any group wheel lines.

For example if there are 2 files in `/etc/sudoers.d` - say `wg-quick` and `wheel`, where the `wheel` entry requires a password for members of group `wheel`.

Now if user listed in `wg-quick` is also a member of `wheel` group, since `wg-quick` is first and `wheel` is second (files are treated in lexical order) the `wheel` one will prevail and user will be prompted for a password when running `sudo /usr/bin/wg-quick`. Not what we want. To fix this use numbers to prefix the `sudoers` filenames. So in this example it would be:

```
/etc/sudoers.d/010-wheel
/etc/sudoers.d/100-wg-client
```

thereby ensuring that `wg-client` entries follow the `wheel` ones.

For convenience this is also noted in the sample file:

```
/etc/wg-client/sudoers.sample
```

```
chmod -440 /etc/sudoers.d/wg-client
```



## 3.1 Installation

Available on:

- [Github](#)
- [Archlinux AUR](#)

On Arch you can build using the PKGBUILD provided in packaging directory or from the AUR package.

To build manually, clone the repo and do:

```
rm -f dist/*  
/usr/bin/python -m build --wheel --no-isolation  
root_dest="/" ./scripts/do-install $root_dest
```

When running as non-root then set root\_dest a user writable directory

## 3.2 Dependencies

**Run Time :**

- python (3.11 or later)
- netifaces
- hicolor-icon-theme
- psutil (aka python-psutil)
- PyQt6 / Qt6 (for gui)
- hicolor-icon-theme
- dateutil
- netifaces
- licap
- pynotify
- openssl (3.0 or later)

**Building Package:**

- git
- hatch (aka python-hatch)

- wheel (aka python-wheel)
- build (aka python-build)
- installer (aka python-installer)
- rsync

**Optional for building docs:** \* sphinx \* myst-parser \* texlive-latexextra (archlinux packaguing of texlive tools)

## 3.3 Philosophy

We follow the *live at head commit* philosophy. This means we recommend using the latest commit on git master branch. This approach is also taken by Google<sup>23</sup>.

## 3.4 License

Created by Gene C. and licensed under the terms of the MIT license.

- SPDX-License-Identifier: MIT
- SPDX-FileCopyrightText: © 2023-present Gene C <[arch@sapience.com](mailto:arch@sapience.com)>

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<sup>2</sup> <https://github.com/google/googletest>

<sup>3</sup> <https://abseil.io/about/philosophy#upgrade-support>

## CHANGELOG

### [6.8.0] — 2025-03-09

Improve readme **and** fix typo **in** help message  
Additional **self** protections **in** `kill_ssh()` function  
Tidy some code.  
update Docs/Changelog.rst Docs/wg-client.pdf

### [6.7.0] — 2025-03-02

Improve logging when ssh listener exits.  
update Docs/Changelog.rst Docs/wg-client.pdf

### [6.6.0] — 2025-02-27

Improve ssh retry loop after ssh session **is** dropped  
Increase saved logs `2x10k` to `5x100k`  
wg-dn stops **any** ssh listener **as** well  
update Docs/Changelog.rst Docs/wg-client.pdf

### [6.5.0] — 2024-12-31

Git tags are now signed.  
Update SPDX tags  
Add git signing key to Arch Package  
Bump python vers  
update Docs/Changelog.rst Docs/wg-client.pdf

### [6.4.0] — 2024-12-23

Fix bug **with** root checking whether non-root users have ssh running  
update Docs/Changelog.rst Docs/wg-client.pdf

### [6.3.0] — 2024-12-23

Make sure pid **is** always **int** (fixes bug where reading pid returned **None**)  
update Docs/Changelog.rst Docs/wg-client.pdf

### [6.2.0] — 2024-12-22

Bug fix **with** display of ssh prefix **in** status / show-info  
update Docs/Changelog.rst Docs/wg-client.pdf

### [6.1.0] — 2024-12-21

Timeout between ssh reconnects now 30 seconds  
ssh listener is now auto restarted if it exits unexpectedly.  
There are normal, quite common situations where ssh process can exit prematurely.  
→ (After sleep/resume, remote server sshd restarts/reboot, changing IP address such as  
→ location change of laptop)  
update Docs/Changelog.rst Docs/wg-client.pdf

[5.10.0] — 2024-10-20

Use ipaddress in place of netaddr  
update Docs/Changelog.rst Docs/wg-client.pdf

[5.9.3] — 2024-09-07

rst continued (gh seems different to sphinx)  
update Docs/Changelog.rst Docs/wg-client.pdf

[5.9.2] — 2024-09-07

More rst tidy ups  
update Docs/Changelog.rst Docs/wg-client.pdf

[5.9.1] — 2024-09-07

Tidy restructured text formatting in readme  
update Docs/Changelog.rst Docs/wg-client.pdf

[5.9.0] — 2024-07-07

wg-fix-resolv: Improve compiler / loader options - see Makefile for details  
update Docs/Changelog.rst Docs/wg-client.pdf

[5.8.1] — 2024-07-07

Typo in version string  
update Docs/Changelog.rst Docs/wg-client.pdf

[5.7.0] — 2024-07-06

--status as root now displays ssh/resolv for other users if active  
update Docs/Changelog.rst Docs/wg-client.pdf

[5.6.0] — 2024-07-04

Improve comments and log more in wg-fix-resolv  
update Docs/Changelog.rst Docs/wg-client.pdf

[5.5.0] — 2024-07-04

wg-fix-resolv: tidy up code add mem\_alloc() helper.  
No need to null terminate data read from file  
update Docs/Changelog.rst Docs/wg-client.pdf

[5.4.0] — 2024-07-03



wg-fix-resolv: simplify file\_compare() which now returns `bool`  
 update Docs/Changelog.rst Docs/wg-client.pdf

### [5.3.0] — 2024-07-03

wg-fix-resolv: `chown(root)` `if` write `resolv.conf.saved`.  
 Fixes (benign) bug where owner of the file `resolv.conf.saved` can be user instead of `root`  
 update Docs/Changelog.rst Docs/wg-client.pdf

### [5.2.0] — 2024-07-02

When comparing file digests use `strncmp()` `with` known dynamic length `not` `EVP_MAX_MD_SIZE`  
 update Docs/Changelog.rst Docs/wg-client.pdf

### [5.1.0] — 2024-07-02

wg-fix-resolv.c: Generalize the file hashing `and` switch to SHA384  
 The `hash` `is` used to compare two of the `resolv.conf` files `for any` changes  
 Code tidy ups  
 update Docs/Changelog.rst Docs/wg-client.pdf

### [5.0.2] — 2024-07-01

Readme - clarify that gui starts the monitor daemon automatically  
 update Docs/Changelog.rst Docs/wg-client.pdf

### [5.0.1] — 2024-07-01

\* Auto fix of `resolv.conf` (new option `*--fix-dns-auto-start*`)  
 Network refresh often happens after sleep/resume (e.g. laptop lid close/open) `or`  
 when a DHCP lease expires. If VPN `is` up `and` running  
 when this occurs the `/etc/resolv.conf` file can be reset `and` then DNS will no longer `use`  
 the vpn DNS but will then use whatever resolver DHCP provided by default.  
 Earlier versions of `wg-client` offered a manual fix available  
 by clicking the `*VPN Start*` button again `or` by using `wg-client` on command line.  
 This `is` now done automatically using a daemon which can be started/stopped `from`  
 command line  
 using the new options `*--fix-dns-auto-start*` `and` `*--fix-dns-auto-stop*`  
 The GUI app does this whenever it starts wireguard.  
 \* `*--version*`  
 Display `wg-client` version  
 \* NB version 5 has 2 additional dependencies:  
 - `openssl` library `for` `wg-fix-resolv.c`  
 - `python-pynotify` library available via github `and` AUR  
 update Docs/Changelog.rst Docs/wg-client.pdf

### [4.2.0] — 2024-04-17

Package update: `"pacman -Qc wg_tool"` now shows the Changelog  
 Move version info to `version.py`  
 update Docs/Changelog.rst Docs/wg-client.pdf

### [4.1.3] — 2024-02-09

Fix github url **in** PKGBUILD  
update Docs/Changelog.rst Docs/wg-client.pdf

### [4.1.2] — 2024-02-09

update Docs/Changelog.rst Docs/wg-client.pdf  
Fix typoe  
update Docs/Changelog.rst Docs/wg-client.pdf

### [4.1.1] — 2024-02-09

Add missing PKGBUILD dependencies **as** reported on AUR by gwy  
<https://aur.archlinux.org/packages/wg-client#comment-955729>  
update Docs/Changelog.rst Docs/wg-client.pdf

### [4.1.0] — 2024-01-17

ssh\_listener now handles pure IPv6 wg iface to build listening port  
update Docs/Changelog.rst Docs/wg-client.pdf

### [4.0.1] — 2024-01-08

rst fixes **for** readme **as** github ignoring some code-blocks  
update Docs/Changelog.rst Docs/wg-client.pdf

### [4.0.0] — 2024-01-08

dns resolv.conf fix now uses c-program **with** capabilities.  
Now sudo **is** only needed to run wg-quick.  
Docs updated **with** info on new /usr/lib/wg-client/wg-fix-resolv program  
update Docs/Changelog.rst Docs/wg-client.pdf

### [3.7.6] — 2024-01-08

bump to **3.7.6**  
update Docs/Changelog.rst Docs/wg-client.pdf

### [3.7.5] — 2024-01-08

update Docs/Changelog.rst Docs/wg-client.pdf  
update version **for** installer fix  
update Docs/Changelog.rst Docs/wg-client.pdf  
installer typo fix  
update Docs/Changelog.rst Docs/wg-client.pdf

### [3.7.4] — 2024-01-08

README - document **all** the options of wg-client  
update Docs/Changelog.rst Docs/wg-client.pdf

### [3.7.3] — 2024-01-07

small readme tweak  
update Docs/Changelog.rst Docs/wg-client.pdf

[3.7.1] — 2024-01-07

wg-client provides command line **and** gui tool to start **and** stop wireguard



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## HOW TO HELP WITH THIS PROJECT

Thank you for your interest in improving this project. This project is open-source under the MIT license.

### 6.1 Important resources

- [Git Repo](#)

### 6.2 Reporting Bugs or feature requests

Please report bugs on the issue tracker in the git repo. To make the report as useful as possible, please include

- operating system used
- version of python
- explanation of the problem or enhancement request.

### 6.3 Code Changes

If you make code changes, please update the documentation if it's appropriate.





## CONTRIBUTOR COVENANT CODE OF CONDUCT

### 7.1 Our Pledge

In the interest of fostering an open and welcoming environment, we as contributors and maintainers pledge to making participation in our project and our community a harassment-free experience for everyone, regardless of age, body size, disability, ethnicity, sex characteristics, gender identity and expression, level of experience, education, socio-economic status, nationality, personal appearance, race, religion, or sexual identity and orientation.

### 7.2 Our Standards

Examples of behavior that contributes to creating a positive environment include:

- Using welcoming and inclusive language
- Being respectful of differing viewpoints and experiences
- Gracefully accepting constructive criticism
- Focusing on what is best for the community
- Showing empathy towards other community members

Examples of unacceptable behavior by participants include:

- The use of sexualized language or imagery and unwelcome sexual attention or advances
- Trolling, insulting/derogatory comments, and personal or political attacks
- Public or private harassment
- Publishing others' private information, such as a physical or electronic address, without explicit permission
- Other conduct which could reasonably be considered inappropriate in a professional setting

### 7.3 Our Responsibilities

Maintainers are responsible for clarifying the standards of acceptable behavior and are expected to take appropriate and fair corrective action in response to any instances of unacceptable behavior.

Maintainers have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions that are not aligned to this Code of Conduct, or to ban temporarily or permanently any contributor for other behaviors that they deem inappropriate, threatening, offensive, or harmful.

## 7.4 Scope

This Code of Conduct applies both within project spaces and in public spaces when an individual is representing the project or its community. Examples of representing a project or community include using an official project e-mail address, posting via an official social media account, or acting as an appointed representative at an online or offline event. Representation of a project may be further defined and clarified by project maintainers.

## 7.5 Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be reported by contacting the project team at <arch@sapience.com>. All complaints will be reviewed and investigated and will result in a response that is deemed necessary and appropriate to the circumstances. The Code of Conduct Committee is obligated to maintain confidentiality with regard to the reporter of an incident. Further details of specific enforcement policies may be posted separately.

## 7.6 Attribution

This Code of Conduct is adapted from the Contributor Covenant, version 1.4, available at <https://www.contributor-covenant.org/version/1/4/code-of-conduct.html>

## 7.7 Interpretation

The interpretation of this document is at the discretion of the project team.

## INDICES AND TABLES

- `genindex`
- `modindex`
- `search`