

Whoogle

Get Google search results, but without any ads, javascript, AMP links, cookies, or IP address tracking. Easily deployable in one click as a Docker app, and customizable with a single config file. Quick and simple to implement as a primary search engine replacement on both desktop and mobile.

- [Fixing Whoogle after Debian upgrade + updating Whoogle](#)

Fixing Whoogle after Debian upgrade + updating Whoogle

Whoogle is the other service that is now unable to start after upgrading from Debian 10 to Debian 11. Just like with Searx, I suspect the problem will have something to do with Python, since both apps are built using Flask, which is a [micro web framework written in Python](#). However, I have been postponing upgrading to the newest version of Whoogle for a while now, so I will use this opportunity to first perform an upgrade.

Upgrading Whoogle

Check and stop the service

```
$ systemctl status whoogle
```

● whoogle.service - Whoogle

Loaded: loaded (/etc/systemd/system/whoogle.service; enabled; vendor preset: enabled)

Active: active (running) since Wed 2021-09-15 14:57:08 CEST; 48ms ago

Main PID: 157075 (python3)

CPU: 16ms

CGroup: /system.slice/whoogle.service

└─157075 /var/www/whoogle/venv/bin/python3 -um app --host 127.0.0.1 --port 5000

```
Sep 15 14:57:08 hostname whoogle[157075]: __import__(pkg_name)
```

```
Sep 15 14:57:08 hostname whoogle[157075]: File "/var/www/whoogle/app/__init__.py", line 1, in <module>
```

```
Sep 15 14:57:08 hostname whoogle[157075]: from app.request import send_tor_signal
```

```
Sep 15 14:57:08 hostname whoogle[157075]: File "/var/www/whoogle/app/request.py", line 1, in <module>
```

```
Sep 15 14:57:08 hostname whoogle[157075]: from app.models.config import Config
```

```
Sep 15 14:57:08 hostname whoogle[157075]: File "/var/www/whoogle/app/models/config.py", line 1, in  
<module>
```

```
Sep 15 14:57:08 hostname whoogle[157075]: from flask import current_app
```

```
Sep 15 14:57:08 hostname whoogle[157075]: ModuleNotFoundError: No module named 'flask'
```

```
Sep 15 14:57:08 hostname systemd[1]: whoogle.service: Main process exited, code=exited, status=1/FAILURE
Sep 15 14:57:08 hostname systemd[1]: whoogle.service: Failed with result 'exit-code'.
```

We can see that the service is trying to start but is unable to. Let's leave that for a while, stop the service and perform an upgrade.

```
$ sudo systemctl stop whoogle
```

Confirm that the service has stopped.

```
$ sudo systemctl status whoogle
```

● whoogle.service - Whoogle

Loaded: loaded (/etc/systemd/system/whoogle.service; enabled; vendor preset: enabled)

Active: inactive (dead) (Result: exit-code) since Wed 2021-09-15 14:57:26 CEST; 10min ago

Process: 157082 ExecStart=/var/www/whoogle/venv/bin/python3 -um app --host 127.0.0.1 --port 5000

(code=exited, status=1/>>

Main PID: 157082 (code=exited, status=1/FAILURE)

CPU: 105ms

```
Sep 15 14:57:24 hostname systemd[1]: whoogle.service: Main process exited, code=exited, status=1/FAILURE
```

```
Sep 15 14:57:24 hostname systemd[1]: whoogle.service: Failed with result 'exit-code'.
```

```
Sep 15 14:57:26 hostname systemd[1]: Stopped Whoogle.
```

Temporarily add shell to Whoogle user

Whoogle is also running under a separate user who owns its directory and since we will be performing management tasks as this user, we need it to have shell access. Replace */usr/sbin/nologin* with */bin/bash* on the whoogle line in */etc/passwd*.

```
$ sudo vi /etc/passwd
```

```
whoogle:x:1001:1001:,,,:/home/whoogle:/usr/sbin/nologin
```

to

```
whoogle:x:1001:1001:,,,:/home/whoogle:/bin/bash
```

Backup existing config file

All configuration of Whoogle is done using the **whoogle.env** file located in the root of the Whoogle folder, in my case */var/www/whoogle*. Backup this file before upgrading. This will copy the file to

the home directory of Whoogle user.

```
(whoogle)$ cp /var/www/whoogle/whoogle.env ~/
```

Clone the newest version

Move to the home directory of Whoogle user.

```
(whoogle)$ cd
```

Once in there, clone the Git repository.

```
(whoogle)$ git clone https://github.com/benbusby/whoogle-search.git
```

Merge the config file

Across versions, config files may change in structure or add/remove options. Always check manually.

Move to the cloned repository and merge your old *whoogle.env* with the downloaded one. In this case, the newer config was structured a bit differently, so I kept the new one and replaced some values in it.

```
(whoogle)$ cd whoogle-search && vi whoogle.env
```

Delete and replace with new version

You could just copy and rewrite everything in `/var/www/whoogle` with new files, but that poses the risk of leaving some old files behind or running into permission issues. That's why I decided to completely remove files from the old directory and then copy in the new version. This is essentially a reinstall of the service, but everything we need is backed up in the config file, so we are not losing any data.

Heads up - This isn't exactly the fastest way to perform an upgrade and even if it can be done in 5 minutes, in availability dependent environments, consider options like rerouting traffic to another web server and switching back once everything is ready and tested.

There is a way to do it in one command, but I didn't want to spend more time on this.

Make sure you are deleting the right directory! This will delete everything without asking.

Collecting chardet==3.0.4

Using cached chardet-3.0.4-py2.py3-none-any.whl (133 kB)

Collecting Click==7.0

Using cached Click-7.0-py2.py3-none-any.whl (81 kB)

Collecting cryptography==3.3.2

Downloading cryptography-3.3.2-cp36-abi3-manylinux2010_x86_64.whl (2.6 MB)

 | 2.6 MB 20.4 MB/s

Collecting Flask==1.1.1

Using cached Flask-1.1.1-py2.py3-none-any.whl (94 kB)

Collecting Flask-Session==0.3.2

Using cached Flask_Session-0.3.2-py2.py3-none-any.whl (7.4 kB)

Collecting idna==2.9

Using cached idna-2.9-py2.py3-none-any.whl (58 kB)

Collecting itsdangerous==1.1.0

Using cached itsdangerous-1.1.0-py2.py3-none-any.whl (16 kB)

Collecting Jinja2==2.11.3

Using cached Jinja2-2.11.3-py2.py3-none-any.whl (125 kB)

Collecting MarkupSafe==1.1.1

Downloading MarkupSafe-1.1.1-cp39-cp39-manylinux2010_x86_64.whl (32 kB)

Collecting more-itertools==8.3.0

Using cached more_itertools-8.3.0-py3-none-any.whl (44 kB)

Collecting packaging==20.4

Using cached packaging-20.4-py2.py3-none-any.whl (37 kB)

Collecting pluggy==0.13.1

Using cached pluggy-0.13.1-py2.py3-none-any.whl (18 kB)

Collecting py==1.10.0

Downloading py-1.10.0-py2.py3-none-any.whl (97 kB)

 | 97 kB 1.7 MB/s

Collecting pycodestyle==2.6.0

Using cached pycodestyle-2.6.0-py2.py3-none-any.whl (41 kB)

Collecting pycparser==2.19

Using cached pycparser-2.19-py2.py3-none-any.whl

Collecting pyOpenSSL==19.1.0

Using cached pyOpenSSL-19.1.0-py2.py3-none-any.whl (53 kB)

Collecting pyparsing==2.4.7

Using cached pyparsing-2.4.7-py2.py3-none-any.whl (67 kB)

Collecting PySocks==1.7.1

Using cached PySocks-1.7.1-py3-none-any.whl (16 kB)

Collecting pytest==5.4.1

Using cached pytest-5.4.1-py3-none-any.whl (246 kB)


```
(whoogle)$ ./run
```

```
Serving on http://0.0.0.0:5000
```

Revert changes to the Whoogle user

Now kill the server with Ctrl+C if you haven't already and logout of whoogle user.

This is important, before returning Whoogle into production, change the shell of whoogle account back to `/usr/sbin/nologin` in `/etc/passwd`. Use your regular sudo user for this purpose.

```
whoogle:x:1001:1001:,,,:/home/whoogle:/usr/sbin/nologin
```

Restart the service

```
$ sudo systemctl restart whoogle
```

Check if the service is running fine.

```
$ sudo systemctl status whoogle
```

● whoogle.service - Whoogle

Loaded: loaded (/etc/systemd/system/whoogle.service; enabled; vendor preset: enabled)

Active: active (running) since Wed 2021-09-15 17:13:31 CEST; 4s ago

Main PID: 157621 (python3)

CPU: 868ms

CGroup: /system.slice/whoogle.service

└─157621 /var/www/whoogle/venv/bin/python3 -um app --host 127.0.0.1 --port 5000

```
Sep 15 17:13:31 hostname systemd[1]: whoogle.service: Succeeded.
```

```
Sep 15 17:13:31 hostname systemd[1]: Stopped Whoogle.
```

```
Sep 15 17:13:31 hostname systemd[1]: Started Whoogle.
```

```
Sep 15 17:13:31 hostname whoogle[157621]: Serving on http://localhost:5000
```

Navigate to your URL and Whoogle should be up and running again.