
DHCPcFP Documentation

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Contents:

dhcpcfp - DHCP fingerprint scanner

`dhcpcfp` scans the DHCP client REQUEST packet and creates a report with the fingerprinting data found, the differences of that data with `dhcpcanon` and how to avoid to be fingerprinted through DHCP.

It can be run in the following ways:

From the same machine that sends a DHCP packet

This way it the recommended one for end users. Without any arguments, it will by default: 1. Obtain a DHCP Request packet scanning in active network interface.

It will only scan for packets generated from the same interface, therefore it can take some time unless the interface is restarted.

2. It will query a database with DHCP fingerprints to try to guess device and/or operating system. TBD
3. It will generate a report with the datapoints found, the guessed devices/ operating system and recommendations on DHCP clients less fingerprintable.

A machine that scans for DHCP packets in the local network

__ADVICE__: this is only recommended for demonstration purposes. It is strongly discouraged to run in a network without informed consent from other users of the network.

In this way `dhcpcfp` will scan for DHCP packets not only generated by the same machine where it runs, but also from the local network.

TBD

Providing a pcap file

In this way `dhcpcfp` do not scans the network, but obtain the DHCP packets from a `pcap` file.

TBD

Providing a DHCP fingerprint

Providing a DHCP fingerprint (Parameter Request List option) and/or DHCP vendor option obtained running this same program previously or TBD...

CHAPTER 2

Install dhcpcfp

Installation in Debian/Ubuntu from source code

Install system dependencies

```
sudo apt install python-dev
```

Install dhcpcfp dependencies with virtualenv

Obtain virtualenv

Check <https://virtualenv.pypa.io/en/latest/installation.html> or if Debian equal/newer than Jessie (virtualenv version equal or greater than 1.9), then:

```
sudo apt install python-virtualenv
```

Create a virtual environment

```
mkdir ~/.virtualenvs
virtualenv ~/.virtualenvs/dhcpcfpenv source
~/.virtualenvs/dhcpcfpenv/bin/activate
```

Install dependencies in virtualenv

```
git clone https://github.com/juga0/dhcpcfp
cd dhcpcfp
pip install -r requirements.txt
```

or run:

```
python setup.py install
```

or run:

```
pip install dhcpcfp
```

CHAPTER 3

Indices and tables

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