

Examination of Firmware Scraper

- In this git hub link, there are in total 9 python. After execution one by one I noted the following findings.

Asus scraper

The code is not executable due to various errors.

Dependencies are: scrapy, Spider, Firmware Image , Firmware Loader, urllib.

The main functionality of this code is that:

It checks the following in parser function;

-Category

-series

-Product

If not found it creates a Http request through which it downloads the required.

Belkin Scraper

The code is working.

Dependencies are: requests, bs4, re, os.

It searches the product in product list. The product list is fetch using “get all product sites” function.

The *main functionality* is that it gets the Direct Download Link by checking for bin in href other than that it Acquires the direct URL and calls the download helper function.

Dlink scraper

The code is not working.

Dependencies are: requests, bs4, shutil, urllib, contextlib.

No authentication. We directly get the list of products.

Useful Functionality:

We can check either the site exists or not through checkIfSiteExists() function.

Firmware Image

This code is not working as all the fields are empty : no url

The code is not executed successfully.

Firmware Loader

The *main functionality* of this code is that it finds/ Match the following things:

-Product

-Version

-Build

-Version Period

-Date

This is 3 years old and the code is not working at the moment.

mass Extraction

This code simply unzip the zipped folder of frame ware downloaded.

We have to provide the path of directory.

We have no search option or anything.

The code has one error which can be resolved if we provide the directory path of correct firmware folder.

Netgear fdyne

The code is not working.

Netgear scraper

The request is made in Json from here it get sites after that it start downloading firmwares one by one.

The code is still useful and working. The output is displayed on CMD. It prints the status either the download is successful or not plus it prints the name of the firmware.

```
[\\] Downloading: MR814 Firmware Version 4.13.zip
[-] Download went wrong
[\\] Downloading: MR814v2 Firmware Version 5.3.zip
[-] Download went wrong
[\\] Downloading: MR814v3 Firmware Version 5.4_06.zip
[-] Download went wrong
[\\] Downloading: NTV550 Firmware Version 3.2.16 (EU).zip
[-] Download went wrong
[\\] Downloading: NTV550 Firmware Version 3.2.16 (AU).zip
[-] Download went wrong
[\\] Downloading: NTV550 Firmware Version 3.0.325 (EU).zip
[-] Download went wrong
[\\] Downloading: PS101 Firmware Version 6023.zip
[-] Download went wrong
[\\] Downloading: Print Server Firmware Upgrade Utility Version 2.0 (for PS104, PS105, PS110)
[-] Download went wrong
[\\] Downloading: PS104, PS105, PS110 Print Server Firmware Version 6028.zip
```

tp-link_scraper :

The code is not working as downloadFromSite() function was missing.

Dependencies are: requests, bs4.

Main functionality:

- maintain the list of devices.