

SDDSpider Documentation

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1 Introduction

SDDSpider is a tool that performs service dependency discovery on web application clients. It is a tool written in python3 and tested on Ubuntu 18.04. Looking at the files attached, "sddspider.py" is the main python script that handles the other modules. "requirements.txt" contains a list of all required libraries. "chromedriver" is an executable that allows to control Google Chrome. Below is the directory tree of SDDSpider:

```
SDDSpider
├── sddspider.py
├── spider.py
├── requestor.py
├── ripe.py
├── grapher.py
├── requirements.txt
└── chromedriver
```

2 Requirements

Firstly you need python3 and pip3. On Ubuntu the installation is like so.

```
user@user:~/src$ sudo apt-get update
user@user:~/src$ sudo apt-get install python3.6
```

```
user@user:~/src$ sudo apt install python3-pip
```

Also you need Google Chrome ([click here](#)) installed. Below is a list of all libraries used by SDDSpider:

1. json
2. graphviz
3. colorama
4. argparse
5. time
6. os
7. requests
8. pprint
9. urllib
10. selenium

11. socket

All of those libraries are already pre-installed with python3 except for graphviz, selenium and colorama.

```
user@user:~/src$ pip3 install graphviz
```

```
user@user:~/src$ pip3 install colorama
```

```
user@user:~/src$ pip3 install selenium
```

Also SDDSpider comes with a ChromeDriver file that is specific for Linux. In case you have a different OS, please replace this file with the ChromeDriver of your specific OS from ([click here](#)).

3 Interface and Usage

SDDSpider takes the following arguments.

```
user@user:~/src$ python3 sddspider.py -h
```

```
usage: main.py [-h] -u URL [-o OUT] [-v]
```

optional arguments:

- h, --help show this help message and exit
- o OUT, --out OUT output directory path
- v, --verbose increase output verbosity

required arguments:

- u URL, --url URL target url including http/https

An example command to test SDDSpider would be:

```
user@user:~/src$ python3 sddspider.py -v -u https://www.youtube.com/
```

The results are saved by default to a directory called "data".