

## Using mitmproxy to Analyse HTTP[S] Requests



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I'm posting this here primarily so that Future Quinn™ can reference it. Hopefully other folks will find it useful as well.

I've recently been playing around with [mitmproxy](#), which is working out well for me. One feature I really like is the ability to programmatically extract information from traces created the

mitmproxy

tool. The workflow looks something like this:

1. Run

mitmproxy

2. Use the

l

command to filter the flows it captures. For example,

~d example\,com

will only shows requests to

example.com

3. Run my test.

4. Use the

w

command to save the flows to a file.

5. Extract content from the file programmatically using the script facility built in to

mitmdump

. For example:

\$ mitmdump -r test1.flows -s filter.py -n -q ... output from my filter ...

The filters themselves are written in Python (yay Python!) and have deep access to the flows. For example:

```
from urlparse import urlparse

def response(context, flow):
    u = urlparse(flow.request.url)
    if u.hostname.endswith("example.com"):
        cookie = flow.request.headers["Cookie"]
        if cookie is None:
            cookie = ""
        print "%d %s %s" % (
            flow.response.status_code,
            u.path,
            cookie
        )
```

will print a summary of the status, URL path and request cookies for all the requests to

example.com

The nice thing here is that you have access to the full power of Python, so you can write code to extract the data in the most useful way.

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let myEmail = "eskimo" + "1" + "@apple.com"

Network

Asked 4 years ago by eskimo

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