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# Proxy-Server

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## OVERVIEW

A Simple HTTP proxy server.

## FEATURES

1. **Multi Threaded** : can handle multiple clients and server
2. **GET and POST** supported.
3. **Blacklisting of Domains** : some url's blocked
4. **Caching** : fast servicing of requests.
5. **Authentication** : username and password required to view blacklisted domains

## HOW TO RUN

### Proxy

Specify proxy port while running proxy

```
`python proxy.py 20000`
```

It will run proxy on port 20000

### Server

run server in server directory

```
`python server.py 19999` to run server on port 19999
```

### Client

curl request can be sent as client request and get the response.

```
`curl --request GET --proxy 127.0.0.1:20000 --local-port 20001-20010 127.0.0.1:19999/1.txt`
```

this request will ask 1.txt file from server 127.0.0.1/19999 by GET request via proxy 127.0.0.1/20000 using one of the ports in range 20001-20010 on localhost.

valid username and password should be provided to access blacklisted servers.

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```
`curl --request GET -u username:password --proxy 127.0.0.1:20000 --local-port 20001-20010  
127.0.0.1:19998/1.data`
```