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## Discussion

## Application specifics and shortcomings

Note: The file should be run using Python 2.xx lreicherMyCurl.py has two use cases:

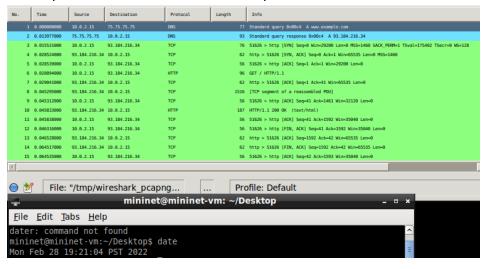
python lreicherMyCurl.py <domain-name-url> python lreicherMyCurl.py <ip-url> <hostname>

In both cases, if the request results in a 200 OK server response and the response is not chunked, the response data will be saved to a file. URLs must match 1 of the 2 cases stated above. In both cases of urls, the form is "url:port/file-path". However, only the url is required and the port and file-path are optional. If the URL does not start with "http://", an error is thrown. Additionally, there are some checks on the validity of the port (numeric) and making sure that an IP address has the correct IPv4 format. The application does not support https or chunked encoding. Also, the application takes advantage of Python 2.xx's byte encoded strings as default. This means that the request and response data do not need to be encoded or decoded.

## Log.csv Entries:

Successful,200,http://www.example.com,www.example.com,10.0.2.15,93.184.216.34,51626,80,HTTP/1.1 200 OK

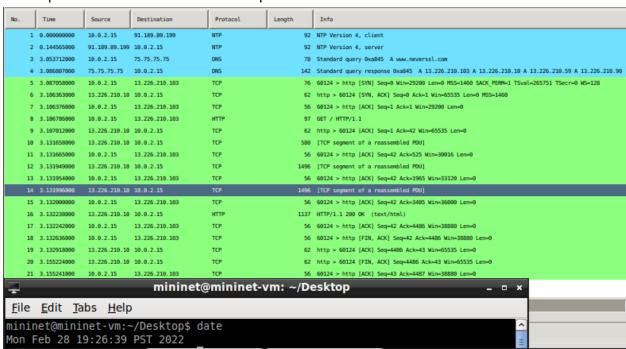
The request was successful and the output matches that of Curl.

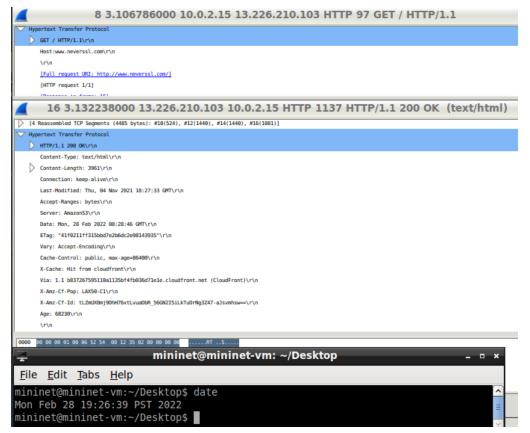




Successful,200,http://www.neverssl.com,www.neverssl.com,10.0.2.15,13.226.210.103,601 24,80,HTTP/1.1 200 OK

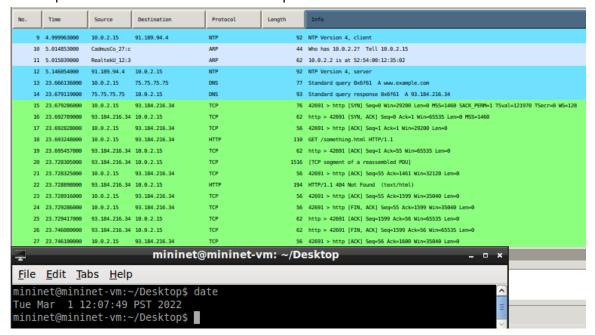
The request was successful and the output matches that of Curl.

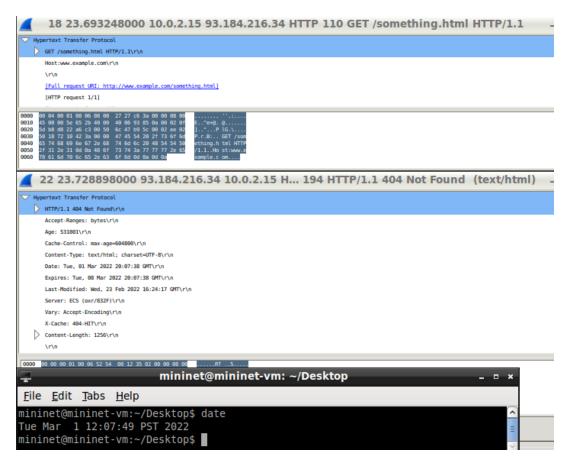




Unsuccessful,404,http://www.example.com/something.html,www.example.com,10.0.2.15, 93.184.216.34,42691,80,HTTP/1.1 404 Not Found

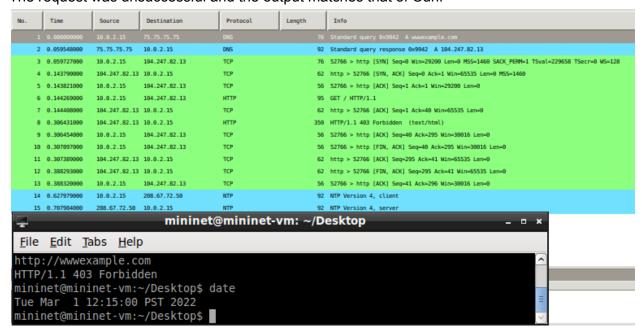
The request was unsuccessful and the output matches that of Curl.

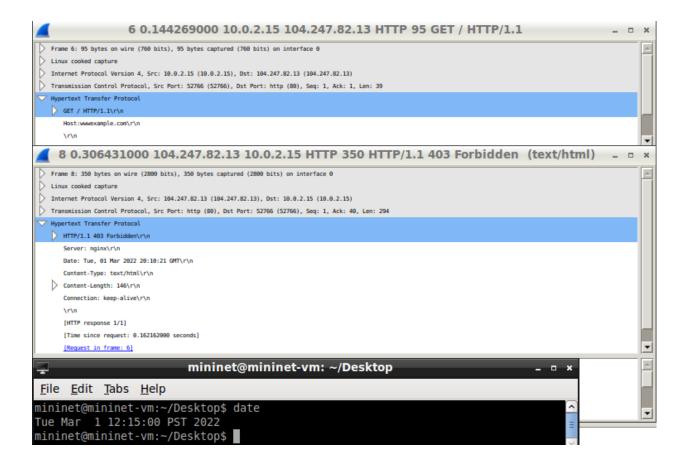




Unsuccessful,403,http://wwwexample.com,wwwexample.com,10.0.2.15,104.247.82.13,527 66,80,HTTP/1.1 403 Forbidden

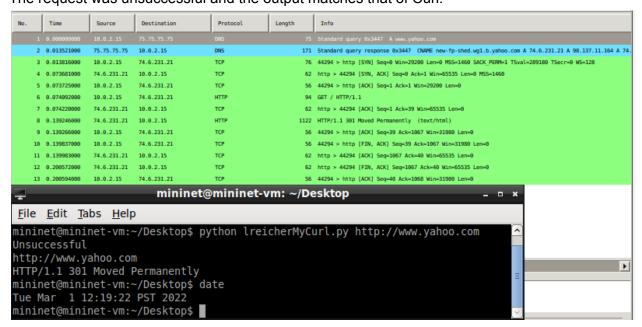
The request was unsuccessful and the output matches that of Curl.

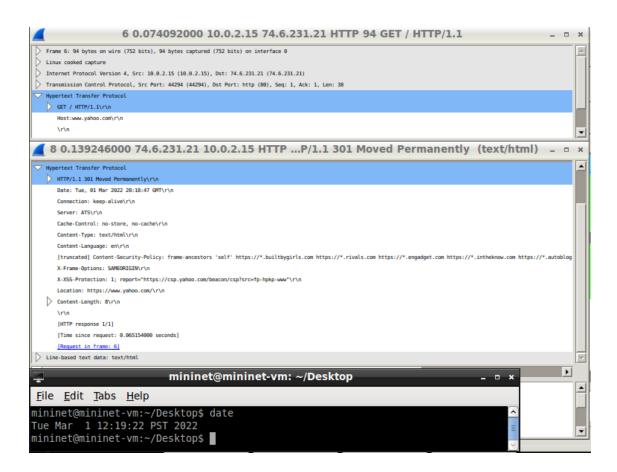




Unsuccessful,301,http://www.yahoo.com,www.yahoo.com,10.0.2.15,74.6.231.21,44294,80, HTTP/1.1 301 Moved Permanently

The request was unsuccessful and the output matches that of Curl.





Unsuccessful,ERR,http://www.google.com:443,www.google.com,10.0.2.15,142.251.46.196, 37157,443,Empty reply from server

The request was unsuccessful and the output matches that of Curl. Note there are no readable request/response packets since they were sent using SSL.

