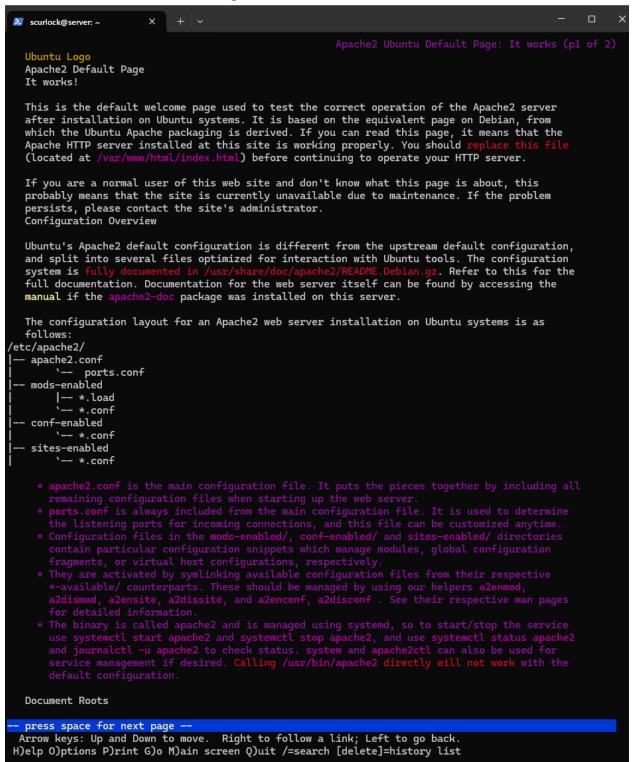
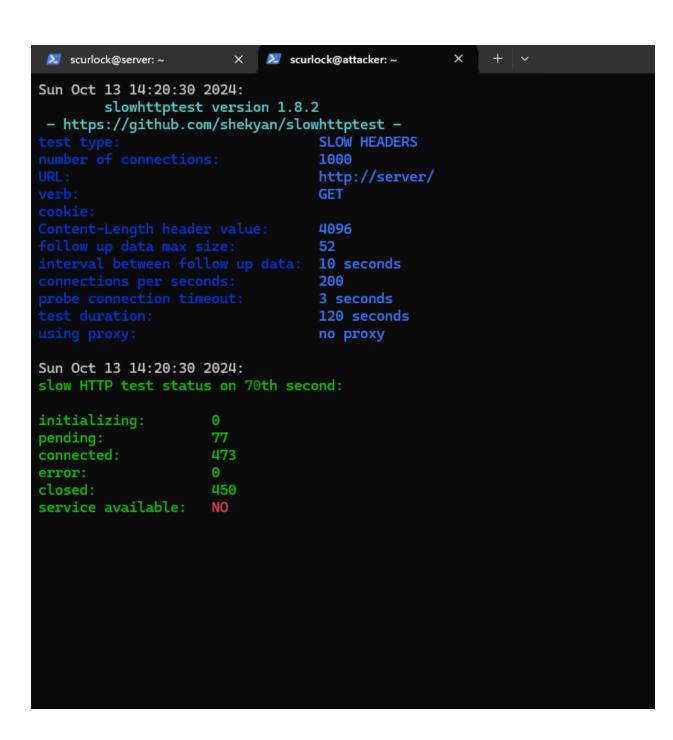
# CprE 431 Module 4 Lab HW







scurlock@server: ~ X scurlock@attacker: ~ X +				
tcp6	146	0 10.10.1.1:80	10.10.1.2:37290	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:39018	ESTABLISHED -
tcp6	Θ	0 10.10.1.1:80	10.10.1.2:35024	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:36920	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:36664	ESTABLISHED -
tcp6	Θ	0 10.10.1.1:80	10.10.1.2:34790	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:39648	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:38670	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:37794	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:37748	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:37580	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:38088	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:38562	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:35574	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:35890	ESTABLISHED -
tcp6	Θ	0 10.10.1.1:80	10.10.1.2:34958	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:38300	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:35624	ESTABLISHED -
tcp6	0	0 10.10.1.1:80	10.10.1.2:34698	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:36252	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:38128	ESTABLISHED -
tcp6	Θ	0 10.10.1.1:80	10.10.1.2:34148	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:37060	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:38448	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:38592	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:38502	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:38162	ESTABLISHED -
tcp6	0	0 10.10.1.1:80	10.10.1.2:34360	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:38406	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:35244	ESTABLISHED -
tcp6	0	0 10.10.1.1:80	10.10.1.2:34634	ESTABLISHED -
tcp6	0	0 10.10.1.1:80	10.10.1.2:34376	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:39248	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:37786	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:37592	ESTABLISHED -
tcp6	9	0 10.10.1.1:80	10.10.1.2:34196	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:37682	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:38006	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:35828 10.10.1.2:33980	ESTABLISHED - ESTABLISHED -
tcp6	9	0 10.10.1.1:80		
tcp6	146	0 10.10.1.1:80	10.10.1.2:38438	ESTABLISHED - ESTABLISHED -
tcp6	146 146	0 10.10.1.1:80	10.10.1.2:35520	
tcp6 tcp6		0 10.10.1.1:80	10.10.1.2:36048	ESTABLISHED -
tcp6	0 146	0 10.10.1.1:80 0 10.10.1.1:80	10.10.1.2:34290 10.10.1.2:36830	ESTABLISHED - ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:39138	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:35562	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:36116	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:36850	ESTABLISHED -
tcp6	146	0 10.10.1.1:80	10.10.1.2:38568	ESTABLISHED -
scurlock@server:~\$				

Test type SLOW HEADERS

Number of connections 1000 Verb GET Content-Length header value 4096

Cookie

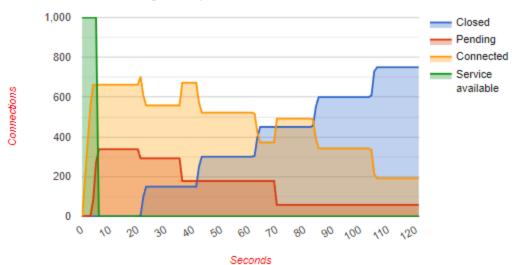
Extra data max length 52

Interval between follow up data 10 seconds

Connections per seconds 20 Timeout for probe connection 3

Target test duration 120 seconds
Using proxy no proxy

# Test results against http://server/



```
scurlock@attacker:~$ ifconfig
eth0: flags=4163<UP, BROADCAST, RUNNING, MULTICAST> mtu 1500
       inet 172.17.85.1 netmask 255.240.0.0 broadcast 172.31.255.255
       inet6 fe80::62:8ff:fe35:42f0 prefixlen 64 scopeid 0x20<link>
       ether 02:62:08:35:42:f0 txqueuelen 1000 (Ethernet)
       RX packets 650681 bytes 66428167 (66.4 MB)
       RX errors 0 dropped 1094 overruns 0 frame 0
       TX packets 3019 bytes 450996 (450.9 KB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
eth1: flags=4163<UP, BROADCAST, RUNNING, MULTICAST> mtu 1500
       inet 10.10.1.2 netmask 255.255.255.0 broadcast 10.10.1.255
       inet6 fe80::c5:50ff:fec4:a614 prefixlen 64 scopeid 0x20<link>
       ether 02:c5:50:c4:a6:14 txqueuelen 1000 (Ethernet)
       RX packets 21271 bytes 2847083 (2.8 MB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 26264 bytes 2542467 (2.5 MB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
       inet 127.0.0.1 netmask 255.0.0.0
       inet6 ::1 prefixlen 128 scopeid 0x10<host>
       loop txqueuelen 1000 (Local Loopback)
       RX packets 324 bytes 31971 (31.9 KB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 324 bytes 31971 (31.9 KB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
scurlock@attacker:~$
```

```
Sun Oct 13 14:36:30 2024:
        slowhttptest version 1.8.2
 - https://github.com/shekyan/slowhttptest -
                                  SLOW HEADERS
                                  1000
URL:
                                  http://server/
Content-Length header value:
                                  4096
                                  52
interval between follow up data: 10 seconds
                                  200
                                 3 seconds
test duration:
                                  120 seconds
using proxy:
                                  no proxy
Sun Oct 13 14:36:30 2024:
slow HTTP test status on 40th second:
initializing:
                     0
pending:
                     0
connected:
                     295
error:
closed:
                     705
service available:
                     NO
```



Test type SLOW HEADERS

Number of connections 1000 Verb GET Content-Length header value 4096

Cookie

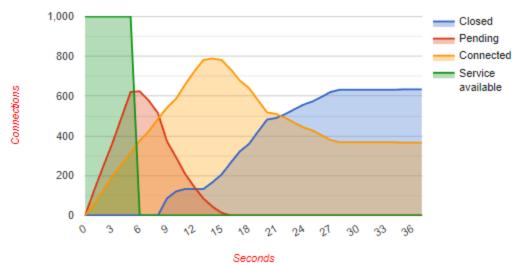
Extra data max length 52

Interval between follow up data 10 seconds

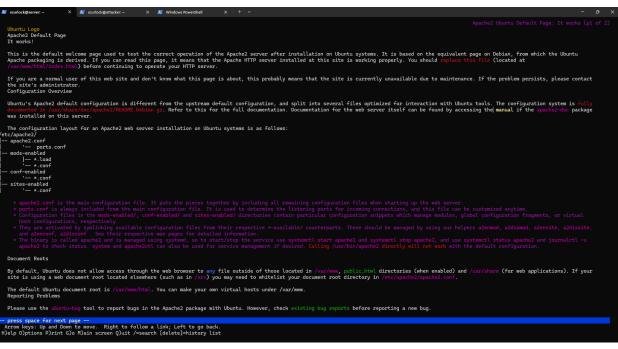
Connections per seconds 200 Timeout for probe connection 3

Target test duration 120 seconds
Using proxy no proxy

# Test results against http://server/



```
Sun Oct 13 14:47:26 2024:
       slowhttptest version 1.8.2
- https://github.com/shekyan/slowhttptest -
                                  SLOW HEADERS
                                  1000
JRL:
                                  http://server/
                                  4096
                                  52
interval between follow up data: 10 seconds
                                  200
probe connection timeout:
                                 3 seconds
test duration:
                                  120 seconds
using proxy:
                                  no proxy
Sun Oct 13 14:47:26 2024:
slow HTTP test status on 15th second:
initializing:
                     0
pending:
                     980
connected:
                     20
error:
                     0
closed:
                     0
service available:
                     NO
```



Test type SLOW HEADERS

Number of connections 1000 Verb GET Content-Length header value 4096

Cookie

Extra data max length 52

Interval between follow up data 10 seconds

Connections per seconds 200 Timeout for probe connection 3

Target test duration 120 seconds
Using proxy no proxy

# Test results against http://server/ 1.000 Closed Pending Connected 800 Service available 600 400 200 40 20 90 100 110 120 30 Seconds

I'm not sure why the service became available but it kept happening.

```
scurlock@server:~$ sudo iptables --flush
scurlock@server:~$ sudo service apache2 stop
scurlock@server:~$ sudo apt-get update
Hit:1 http://us.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Hit:3 http://us.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:4 http://us.archive.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Hit:5 http://repos.emulab.net/emulab/ubuntu jammy InRelease
Hit:6 http://repos.emulab.net/grub-backports/ubuntu jammy InRelease
Fetched 257 kB in 3s (94.8 kB/s)
Reading package lists... Done
scurlock@server:~$ sudo |
```

```
pakangs Error. Done
dependency tree... Done
state information... Done
state information... Done
lowing additional packages will be installed:
inx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream libnginx-mod-stream-geoip2 libxslt1.1 nginx-common nginx-
inx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream libnginx-mod-stream-geoip2 libxslt1.1 nginx-common nginx-
inx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream libnginx-mod-stream-geoip2 libxslt1.1 nginx-common nginx-
inx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream libnginx-mod-stream-geoip2 libxslt1.1 nginx-common nginx-
inx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream libnginx-mod-stream-geoip2 libxslt1.1 nginx-common nginx-
inx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream-geoip2 libxslt1.1 nginx-common nginx-
inx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream-geoip2 libxslt1.1 nginx-common nginx-
inx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream-geoip2 libxslt1.1 nginx-mod-mail libnginx-mod-stream-geoip2 libnginx-mod-mail libnginx-mod-stream-geoip2 libnginx-mod-mail libnginx-mod-stream-geoip2 libnginx-mod-mail libnginx-mod-stream-geoip2 libnginx-mod-s
 Libigin-mod-nttp-geoip2 (libigin-mod-nttp-image-liter (libigin-mod-nttp-sit-liter (libigin-mod-mod-mail (libigin-mod-mod-stream geoip2 (libisti.1 nginx-common nginx-core integrated pages)

The following NEW packages will be installed:

The following NEW packages will be installed:

Libigin-mod-nttp-geoip2 (libisti.1 nginx nginx-common nginx-core of the page)

Ungraded, 10 newly installed, 8 to remove and 79 not upgraded.

Meet to get 561 NB of archive.

A service with the page of the package of the page o
Sun Oct 13 15:03:16 2024:
                                                                    slowhttptest version 1.8.2
        - https://github.com/shekyan/slowhttptest -
                                                                                                                                                                                                                                                                                                 SLOW HEADERS
                                                                                                                                                                                                                                                                                                  1000
                                                                                                                                                                                                                                                                                                 http://server/
                                                                                                                                                                                                                                                                                                 GET
    Content-Length header value: 4096
follow up data max size:
                                                                                                                                                                                                                                                                                           52
interval between follow up data: 10 seconds
                                                                                                                                                                                                                                                                                            200
                                                                                                                                                                                                                                          3 seconds
                                                                                                                                                                                                                                                                                              120 seconds
using proxy:
                                                                                                                                                                                                                                                                                                no proxy
Sun Oct 13 15:03:16 2024:
slow HTTP test status on 30th second:
initializing: 0
pending:
```

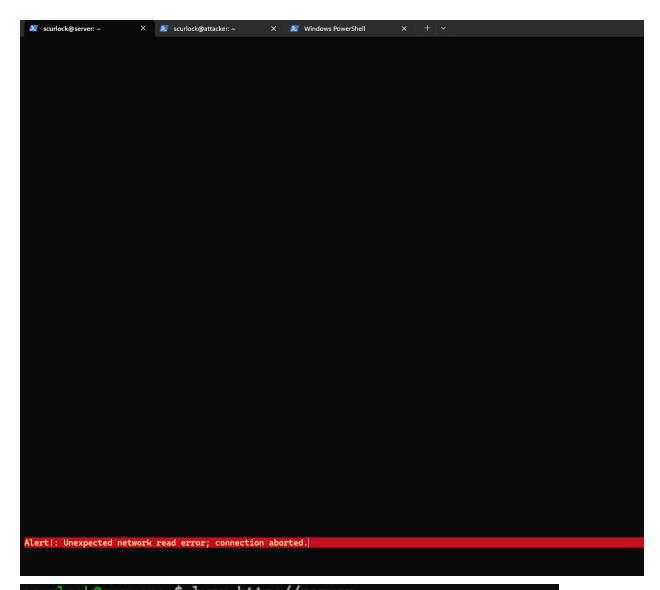
connected:

service available:

error: closed: 765

235

NO



# Looking up server Making HTTP connection to server Sending HTTP request. HTTP request sent; waiting for response. Alert!: Unexpected network read error; connection aborted. Can't Access 'http://server/' Alert!: Unable to access document. lynx: Can't access startfile

Test type SLOW HEADERS

Number of connections 1000 Verb GET Content-Length header value 4096

Cookie

Extra data max length 52

Interval between follow up data 10 seconds

Connections per seconds 200 Timeout for probe connection 3

Target test duration 120 seconds
Using proxy no proxy

# Test results against http://server/

