Bandit

bandit13

Uses of -i switch

Fill identity file
Selects a file from which the identity (private key) for public key authentication is read. The default is <a href="https://www.nsh/id-edsa.com/ssh/id-edsa

```
kali:~/pwn/bandit/bandit13# ssh -i privkey.txt bandit14@bandit.labs.overthewire.org -p 2220:
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
WARNING: UNPROTECTED PRIVATE KEY FILE!
Permissions 0644 for 'privkey.txt' are too open.
It is required that your private key files are NOT accessible by others.
This private key will be ignored.
Load key "privkey.txt": bad permissions
bandit14@bandit.labs.overthewire.org's password:
 oot@kali:~/pwn/bandit/bandit13# lsf
total 12K
drwxr-xr-x 2 root root 4.0K Sep 25 08:16 ./
drwxr-xr-x 3 root root 4.0K Sep 25 08:16 ../
-rw-r--r-- 1 root root 1.7K Sep 25 08:16 privkey.txt
      i:~/pwn/bandit/bandit13# chmod 600 privkey.txt
```

No problem loggin in after that.

bandit14

/etc/bandit_pass/bandit14 4wcYUJFw0k0XLShIDzztnTBHigxU3b3e

bandit14@bandit:~\$ nc localhost 30000
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
Correct!
BfMYroe26WYalil77FoDi9qh59eK5xNr
bandit14@bandit:~\$

Bandit15

```
Connecting and submitting
bandit15@bandit:~$ openssl s_client -connect localhost:30001
CONNECTED(00000003)
depth=0 CN = localhost
verify error:num=18:self signed certificate
verify return:1
depth=0 CN = localhost
verify return:1
```

```
BfMYroe26WYalil77FoDi9qh59eK5xNr
Correct!
cluFn7wTiGryunymYOu4RcffSxQluehd
closed
bandit15@bandit:~$
```

explanation on the s client switch

This implements a generic SSL/TLS client which can establish a transparent connection to a remote server speaking SSL/TLS. It's intended for testing purposes only and provides only rudimentary interface functionality but internally uses mostly all functionality of the OpenSSL ssl library.

cluFn7wTiGryunymYOu4RcffSxQluehd

bandit16

PORT SPECIFICATION AND SCAN ORDER:
-p <port ranges>: Only scan specified ports
Ex: -p22; -p1-65535; -p U:53,111,137,T:21-25,80,139,8080,S:9

nmap from 31000 to 32000

```
bandit16@bandit:~$ nmap -p31000-32000 localhost

Starting Nmap 7.40 ( https://nmap.org ) at 2019-09-25 14:56 CEST
Nmap scan report for localhost (127.0.0.1)
Host is up (0.00020s latency).
Not shown: 999 closed ports
PORT STATE SERVICE
31518/tcp filtered unknown
31790/tcp open unknown
Nmap done: 1 IP address (1 host up) scanned in 1.26 seconds
```

```
connect only to open ports
bandit16@bandit:~$ openssl s_client -connect localhost:31790
CONNECTED(00000003)
depth=0 CN = localhost
verify error:num=18:self signed certificate
verify return:1
depth=0 CN = localhost
verify return:1
```

----BEGIN RSA PRIVATE KEY----

MIIEogIBAAKCAQEAvmOkuifmMg6HL2YPIOjon6iWfbp7c3jx34YkYWgUH57SUdyl imZzeyGC0gtZPGujUSxiJSWI/oTqexh+cAMTSMIOJf7+BrJObArnxd9Y7YT2bRPQ Ja6Lzb558YW3FZI87ORiO+rW4LCDCNd2IUvLE/GL2GWyuKN0K5iCd5TbtJzEkQTu DSt2mcNn4rhAL+JFr56o4T6z8WWAW18BR6yGrMq7Q/kALHYW3OekePQAzL0VUYbW IGTi65CxbCnzc/w4+mgQyvmzpWtMAzlTzAzQxNbkR2MBGySxDLrjg0LWN6sK7wNX x0YVztz/zblkPjfkU1jHS+9EbVNj+D1XFOJuaQIDAQABAoJBABagpxpM1aoLWfvD KHcj10ngcoBc4oE11aFYQwik7xfW+24pRNuDE6SFthOar69jp5RILwD1NhPx3iBI J9nOM8OJ0VToum43UOS8YxF8WwhXriYGnc1sskbwpXOUDc9uX4+UESzH22P29ovd d8WErY0gPxun8pbJLmxkAtWNhpMvfe0050vk9TL5wgbu9AlbssgTcCXkMOnPw9nC YNN6DDP2lbcBrvgT9YCNL6C+ZKufD52yOQ9qOkwFTEQpjtF4uNtJom+asvlpmS8A vLY9r60wYSvmZhNgBUrj7lyCtXMlu1kkd4w7F77k+DjHoAXyxcUp1DGL51sOmama +TOWWgECgYEA8jtPxP0GRJ+IQkX262jM3dElkza8ky5molwUgYdsx0NxHgRRhORT 8c8hAuRBb2G82so8vUHk/fur85OEfc9TncnCY2crpogsghifKLxrLgtT+qDpfZnx SatLdt8GfQ85yA7hnWWJ2MxF3NaeSDm75Lsm+tBbAiyc9P2jGRNtMSkCgYEAypHd HCctNi/FwjulhttFx/rHYKhLidZDFYeiE/v45bN4yFm8x7R/b0iE7KaszX+Exdvt SghaTdcG0Knyw1bpJVyusavPzpaJMjdJ6tcFhVAbAjm7enClvGCSx+X3l5SiWg0A R57hlglezliVjv3aGwHwvlZvtszK6zV6oXFAu0ECgYAbjo46T4hyP5tli93V5HDi Ttiek7xRVxUI+iU7rWkGAXFpMLFteQEsRr7PI/lemmEY5eTDAFMLy9FL2m9oQWCq R8VdwSk8r9FGLS+9aKcV5PI/WEKlwgXinB3OhYimtiG2Cg5JCqlZFHxD6MjEGOiu L8ktHMPvodBwNsSBULpG0QKBgBAplTfC1HOnWiMGOU3KPwYWt0O6CdTkmJOmL8Ni blh9elyZ9FsGxsgtRBXRsgXuz7wtsQAgLHxbdLg/ZJQ7YfzOKU4ZxEnabvXnvWkU YOdjHdSOoKvDQNWu6ucyLRAWFulSeXw9a/9p7ftpxm0TSgyvmfLF2MIAEwyzRgaM 77pBAoGAMmjmIJdjp+Ez8duyn3ieo36yrttF5NSsJLAbxFpdlc1gvtGCWW+9Cq0b

dxviW8+TFVEBI1O4f7HVm6EpTscdDxU+bCXWkfjuRb7Dy9GOtt9JPsX8MBTakzh3vBgsyi/sN3RqRBcGU40fOoZyfAMT8s1m/uYv52O6IgeuZ/ujbjY=----END RSA PRIVATE KEY-----

bandit17

Connecting to bandit 17

```
i:~/pwn/bandit/bandit17# ssh -i bandit.txt bandit17@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
WARNING: UNPROTECTED PRIVATE KEY FILE!
                                                   @
Permissions 0644 for 'bandit.txt' are too open.
It is required that your private key files are NOT accessible by others.
This private key will be ignored.
Load key "bandit.txt": bad permissions
bandit17@bandit.labs.overthewire.org's password:
  t@kali:~/pwn/bandit/bandit17# lsf
total 12K
drwxr-xr-x 2 root root 4.0K Sep 25 09:01 ./
drwxr-xr-x 4 root root 4.0K Sep 25 09:00 ../
-rw-r--r-- 1 root root 1.7K Sep 25 09:01 bandit.txt
    @kali:~/pwn/bandit/bandit17# chmod 600 bandit.txt
     ali:~/pwn/bandit/bandit17# ssh -i bandit.txt bandit17@bandit.labs.overthewire.org -p 2220
```

```
bandit17@bandit:~$ diff passwords.old passwords.new
42c42
< hlbSBPAWJmL6WFDb06gpTx1pPButbl0A
---
> kfBf3eYk5BPBRzwjqutbbfE887SVc5Yd
```

kfBf3eYk5BPBRzwigutbbfE887SVc5Yd

bandit18

Using ssh for rce

```
t@kali:~/pwn/rootme# ssh bandit18@bandit.labs.overthewire.org -p 2220 -t 'ls -lah'
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
bandit18@bandit.labs.overthewire.org's password:
total 24K
drwxr-xr-x 2 root
                      root 4.0K Oct 16 2018 .
drwxr-xr-x 41 root
                      root
                               4.0K Oct 16 2018 ...
-rw-r--r-- 1 root
                                220 May 15 2017 .bash logout
                      root
-rw-r---- 1 bandit19 bandit18 3.5K Oct 16 2018 .bashrc
-rw-r--r-- 1 root
                                675 May 15 2017 .profile
                      root
-rw-r---- 1 bandit19 bandit18 33 Oct 16 2018 readme
Connection to bandit.labs.overthewire.org closed.
   t@kali:~/pwn/rootme# ssh bandit18@bandit.labs.overthewire.org -p 2220 -t 'cat readme'
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
bandit18@bandit.labs.overthewire.org's password:
IueksS7Ubh8G3DCwVzrTd8rAV0wq3M5x
Connection to bandit.labs.overthewire.org closed.
```

lueksS7Ubh8G3DCwVzrTd8rAVOwg3M5x

solution 2:

```
oot@kali:~/pwn/rootme# ssh bandit18@bandit.labs.overthewire.org -p 2220 -t '/bin/sh -i'
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
bandit18@bandit.labs.overthewire.org's password:
$ dir
readme
$ cat readme
IueksS7Ubh8G3DCwVzrTd8rAV0wq3M5x
```

bandit19

```
Executing bash shell and then reading password
bandit19@bandit:~$ ./bandit20-do /bin/bash -p
bash-4.4$ id
```

uid=11019(bandit19) gid=11019(bandit19) euid=11020(bandit20) groups=11019(bandit19) bash-4.4\$ cat /etc/bandit pass/bandit20

GbKksEFF4yrVs6il55v6gwY5aVje5f0j

bash-4.4\$

Solution 2

```
bandit19@bandit:~$ ./bandit20-do /bin/sh -i
uid=11019(bandit19) gid=11019(bandit19) euid=11020(bandit20) groups=11019(bandit19)
```

GbKksEFF4vrVs6il55v6gwY5aVie5f0i