PoC Task 6: Log Analysis & Intrusion Detection

- 1) Setup
- 1.1) Enable system logging: sudo journalctl --setup-keys



1.2) Simulate failed SSH attempts:

for i in {1..5}; do ssh wronguser@localhost; done

```
(kali® kali)-[~]
$ for i in {1..5}; do ssh wronguser@localhost; done
The authenticity of host 'localhost (::1)' can't be established.
ED25519 key fingerprint is SHA256:EFR02XvYhgB0TZIS8Ur0X7TmBvcQHHobfeLg6a2irvg.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added 'localhost' (ED25519) to the list of known hosts.
wronguser@localhost's password:
Permission denied, please try again.
wronguser@localhost's password:
```

- 2) Exploit
- 2.1) Analyze logs:grep "Failed password" /var/log/auth.log
 - 3) Mitigation
- 3.1) Implement fail2ban: sudo apt install fail2ban sudo systemctl start fail2ban
- 3.2) Automate log monitoring: sudo apt install logwatch sudo logwatch --detail High --mailto admin@example.com