TASK: 7

Port Scanner - PoC

This Proof of Concept demonstrates a simple **Bash script** to scan specific ports on a user-supplied IP address using no (netcat) with timeout.

Objective

- Scan ports 20–25 (FTP, SSH, SMTP range) on a given IP.
- Report which ports are open or closed.
- Keep it simple, lightweight, and scriptable.

Script: portscan.sh

```
#!/bin/bash

TARGET=$1
echo " Scanning ports 20-25 on $TARGET"

for PORT in {20..25}; do
   timeout 1 bash -c "echo > /dev/tcp/$TARGET/$PORT" 2>/dev/null &&
        echo " Port $PORT is OPEN" ||
        echo " Port $PORT is CLOSED"

done
```

Alternative (using nc):

```
#!/bin/bash

TARGET=$1
echo " Scanning ports 20-25 on $TARGET"

for PORT in {20..25}; do
timeout 1 nc -zv $TARGET $PORT &>/dev/null
```

```
if [ $? -eq 0 ]; then
   echo "✓ Port $PORT is OPEN"
else
   echo "✓ Port $PORT is CLOSED"
fi
done
```

```
chmod +x portscan.sh
./portscan.sh <target-ip>
```

Setup & Run

```
GNU nano 8.4 //home/kali/ssh_audit.sh

@I/bin/bash

OUTPUT_FILE=~/ssh_audit.txt

echo "===== Last 5 Successful SSH Logins =====" > "$OUTPUT_FILE"
journalctl _COMM=sshd | grep "Accepted password" | tail -n 5 >> "$OUTPUT_FILE"

echo -e "\n===== Last 5 Failed SSH Login Attempts =====" >> "$OUTPUT_FILE"
journalctl _COMM=sshd | grep "Failed password" | tail -n 5 >> "$OUTPUT_FILE"
```