Lab preparation


1. Install VirtualBox, VMware, or UTM

2. Install the following virtual machines
   - Kali Linux
   - Metasploitable 2 (from Rapid7)

Basic commands in Kali Linux

3. Run the following commands and give a short description of what each one does.
   - `ls -a`
   - `ls /etc/`
   - `lsusb`
   - `cd`
   - `cd -`
   - `cd ..`
   - `cd /`
   - `cd /usr/bin/ or usr/bin`
   - `mv myFile aDir/`
   - `mv aDir/myFile .`
   - `mv aDir myDir`
   - `cp myFile subDir/`
   - `cp -r myDir/ elsewhere/`
   - `mkdir photos`
   - `mkdir -p photos/2025/vacation`
   - `pwd`
   - `find myfile*`
   - `find -name *myfile*.ogg`
   - `find /home/ -name myfile`
   - `find . -name "*.c"`
   - `grep -n mytexte myfile`
   - `cat -n myFile`
   - `sudo apt-get update`
   - `sudo apt-get upgrade`
   - `sudo apt-get install packet1 packet2`
   - `sudo apt-get --purge remove packet3`
   - `rmdir Dir_1`
   - `exit`
   - `who`

4. Write and run a Bash script `lab0_.sh` that collects a small system report (reconnaissance) and saves it to `/tmp/lab0-report-<yourname>-YYYYMMDD-HHMMSS.txt`. The script should:
   - Check it is running on Linux and exit with a message if not.
   - Print a header with student name, hostname, and timestamp.
   - Collect and append to the report: `uname -a` (kernel info).
   - `whoami` and user list (`cut` from `/etc/passwd` for human users).
   - IP addresses (`ip -brief addr` or `ip a` fallback).