Scenario

Your role as a security analyst requires that you have the Suricata and topdump network security applications installed on your system.

In this scenario, you have to install, uninstall, and reinstall these applications on your Linux Bash shell. You also need to confirm that you've installed them correctly.

1. Ensure APT application installed

Command to check APT installed: apt

```
analyst@55f62d542336:~$ apt
apt 1.8.2.3 (amd64)
Usage: apt [options] command
apt is a commandline package manager and provides commands for
searching and managing as well as querying information about packages.
It provides the same functionality as the specialized APT tools,
like apt-get and apt-cache, but enables options more suitable for
interactive use by default.
Most used commands:
 list - list packages based on package names
 search - search in package descriptions
 show - show package details
 install - install packages
 reinstall - reinstall packages
 remove - remove packages
 autoremove - Remove automatically all unused packages
 update - update list of available packages
 upgrade - upgrade the system by installing/upgrading packages
 full-upgrade - upgrade the system by removing/installing/upgrading packages
 edit-sources - edit the source information file
See apt(8) for more information about the available commands.
Configuration options and syntax is detailed in apt.conf(5).
Information about how to configure sources can be found in sources.list(5).
Package and version choices can be expressed via apt_preferences(5).
Security details are available in apt-secure(8).
                                        This APT has Super Cow Powers.
analyst@55f62d542336:~$
```

APT is already installed by default in the Linux Bash shell in this lab because this is a Debian-based system. APT is also the recommended package manager for Debian.

2. Install and uninstall the Suricata application

Command to install Suricata: sudo apt install suricata

```
Analyst#55f62d542336:-$ sudo apt install suricata

Reading package lists... Done

Building dependency tree

Reading state information... Done

Re following additional packages will be installed:

geoip-database libauthen-sasl-perl libdata-dump-perl libencode-locale-perl libevent-2.1-6 libevent-core-2.1-6 libevent-pthreads-2.1-6 libfile-listing-perl

libfont-affm-perl libgospl libhitediso.14 libhtml-form-perl libhtml-format-perl libhtml-parser-perl libhtml-tagset-perl libhtml-tree-perl libhtp2

libhttp-cookies-perl libhttp-daemon-perl libhttp-date-perl libhtml-parser-perl libhtml-tagset-perl libhtml-tree-perl libhtp2

libhtanda liblida libhtml-date-perl libhtedia libhtml-format-perl libhtml-parser-perl libhtml-tagset-perl libhtml-tree-perl libhtp-gerl libhtml-tagset-perl libhtml-tagset-perl libhtml-tree-perl libhtp-gerl libhtml-tree-perl libhtml-t
```

Command to verify that Suricata is Installed: suricata

Command to uninstall Suricata: sudo apt remove suricata

3. Install the tcpdump application

Command to install tcpdump: sudo apt install tcpdump

```
analyst@55f62d542336:~$ sudo apt install tcpdump
Reading package lists... Done
Building dependency tree
Reading state information... Done
Suggested packages:
 apparmor
The following NEW packages will be installed:
0 upgraded, 1 newly installed, 0 to remove and 25 not upgraded.
Need to get 400 kB of archives.
After this operation, 1136 kB of additional disk space will be used.
Get:1 http://deb.debian.org/debian buster/main amd64 tcpdump amd64 4.9.3-1~deb10u2 [400 kB]
Fetched 400 kB in 0s (7943 kB/s)
debconf: delaying package configuration, since apt-utils is not installed Selecting previously unselected package tcpdump.
(Reading database ... 24796 files and directories currently installed.)
Preparing to unpack .../tcpdump_4.9.3-1~deb10u2_amd64.deb ...
Unpacking tcpdump (4.9.3-1~deb10u2) ...
Setting up tcpdump (4.9.3-1~deb10u2) ...
Processing triggers for man-db (2.8.5-2) ...
analyst@55f62d542336:~$
```

Command to uninstall tcpdump: sudo apt remove tcpdump

4. List the installed applications:

Command to check list: apt list -installed

```
shared-mime-info/oldoldstable,now 1.10-1 amd64 [installed,automatic]
snort-rules-default/oldoldstable,now 2.9.20-0+deb10u1 all [installed,automatic]
sudo/oldoldstable,now 1.8.27-1+deb10u5 amd64 [installed]
suricata-oinkmaster/oldoldstable,now 1:4.1.2-2+deb10u1 all [installed,automatic]
suricata/oldoldstable,now 1:4.1.2-2+deb10u1 amd64 [installed]
systemd-sysv/oldoldstable,now 241-7~deb10u8 amd64 [installed,upgradable to: 241-7~deb10u10]
systemd/oldoldstable,now 241-7~deb10u8 amd64 [installed,upgradable to: 241-7~deb10u10]
sysvinit-utils/oldoldstable,now 2.93-8 amd64 [installed,automatic]
tar/oldoldstable,now 1.30+dfsg-6 amd64 [installed,automatic]
tcpdump/oldoldstable,now 4.9.3-1~deb10u2 amd64 [installed]
tree/oldoldstable,now 1.8.0-1 amd64 [installed]
tzdata/now 2021a-0+deb10u8 all [installed,upgradable to: 2021a-0+deb10u11]
ucf/oldoldstable,now 3.0038+nmu1 all [installed,automatic]
util-linux/oldoldstable,now 2.33.1-0.1 amd64 [installed,automatic]
wget/oldoldstable,now 1.20.1-1.1 amd64 [installed]
```