App Installation in Linux

Project description

Using command line to install app, uninstall app and to list installed app

Ensure that APT is installed

The following code demonstrates how I used Linux commands to ensure Advance Package Tool (APT) is installed on the Linux OS.

```
analyst@851e790240bf:~$ 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@851e790240bf:~$ 🗍
```

The first line of the screenshot displays the command I entered, and the other lines display the output. The code lists all contents of the app. I used the apt command to check if the apt is installed on the machine. The output of my command indicates that the Advanced Package Tool is installed, it shows the app definition and most used combine command.

Install and uninstall the Suricata application

The following code demonstrates how I used Linux commands to install and uninstall suricata on the Linux OS.

```
analyst@8adb1fa734e9:~$ sudo apt install suricata
Reading package lists... Done
Building dependency tree
Reading state information... Done
The 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-afm-perl
 libgeoip1 libhiredis0.14 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 libhttp-message-perl libhttp-negotiate-perl libhyperscan5
 libio-html-perl libio-socket-ssl-perl libjansson4 libltdl7 libluajit-5.1-2
 libluajit-5.1-common liblwp-mediatypes-perl liblwp-protocol-https-perl libmailtools-perl
 libnet-http-perl libnet-smtp-ssl-perl libnet-ssleay-perl libnet1 libnetfilter-log1
 libnetfilter-queuel libnfnetlink0 libnspr4 libnss3 libpcap0.8 libprelude23
 libpython-stdlib libpython2-stdlib libpython2.7-minimal libpython2.7-stdlib
 libtimedate-perl libtry-tiny-perl liburi-perl libwww-perl libwww-robotrules-perl
 libyaml-0-2 oinkmaster perl-openssl-defaults prelude-utils python python-minimal
 python-simplejson python2 python2-minimal python2.7 python2.7-minimal snort-rules-default
 suricata-oinkmaster
Suggested packages:
 libdigest-hmac-perl libgssapi-perl geoip-bin libcrypt-ssleay-perl libauthen-ntlm-perl
```

The first line of the screenshot displays the command I entered, and the other lines display the output. I used the sudo apt install suricata command to install suricata on the machine. The output of my command indicates the installation process.

```
analyst@8adb1fa734e9:~$ suricata
Suricata 4.1.2
USAGE: suricata [OPTIONS] [BPF FILTER]
        -c <path>
                                             : path to configuration file
        -T
                                             : test configuration file (use with -c)
       -i <dev or ip>
                                             : run in pcap live mode
       -F <bpf filter file>
                                             : bpf filter file
        -r <path>
                                             : run in pcap file/offline mode
        -q <qid>
                                             : run in inline nfqueue mode
       -s <path>
                                             : path to signature file loaded in addition to s
uricata.yaml settings (optional)
                                             : path to signature file loaded exclusively (opt
        -S <path>
ional)
       -1 <dir>
                                             : default log directory
        -D
                                             : run as daemon
        -k [all|none]
                                             : force checksum check (all) or disabled it (non
e)
        -∇
                                             : display Suricata version
       -v[v]
                                             : increase default Suricata verbosity
        --list-app-layer-protos
                                             : list supported app layer protocols
        --list-keywords[=all|csv|<kword>]
                                            : list keywords implemented by the engine
        --list-runmodes
                                             : list supported runmodes
        --runmode <runmode id>
                                             : specific runmode modification the engine shoul
d run. The argument
                                               supplied should be the id for the runmode obta
ined by running
```

The first line of the screenshot displays the command I entered, and the other lines display the

output. I used the suricata command to ensure that suricata is installed on the machine. The output of my command indicates that the suricata is installed.

```
analyst@8adb1fa734e9:~$ sudo apt remove suricata
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
 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-afm-perl
 libgeoip1 libhiredis0.14 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 libhttp-message-perl libhttp-negotiate-perl libhyperscan5
 libio-html-perl libio-socket-ssl-perl libjansson4 libltdl7 libluajit-5.1-2
 libluajit-5.1-common liblwp-mediatypes-perl liblwp-protocol-https-perl libmailtools-perl
 libnet-http-perl libnet-smtp-ssl-perl libnet-ssleay-perl libnet1 libnetfilter-log1
 libnetfilter-queuel libnfnetlink0 libnspr4 libnss3 libpcap0.8 libprelude23
 libpython-stdlib libpython2-stdlib libpython2.7-minimal libpython2.7-stdlib
 libtimedate-perl libtry-tiny-perl liburi-perl libwww-perl libwww-robotrules-perl
 libyaml-0-2 oinkmaster perl-openssl-defaults prelude-utils python python-minimal
 python-simplejson python2 python2-minimal python2.7 python2.7-minimal snort-rules-default
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
 suricata suricata-oinkmaster
 upgraded, 0 newly installed, 2 to remove and 42 not upgraded.
After this operation, 5298 kB disk space will be freed.
Do you want to continue? [Y/n] Y
(Reading database ... 24795 files and directories currently installed.)
Removing suricata-oinkmaster (1:4.1.2-2+deb10u1) ...
Removing suricata (1:4.1.2-2+deb10u1) ...
invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of stop.
Processing triggers for man-db (2.8.5-2) ...
analyst@8adb1fa734e9:~$
```

The first line of the screenshot displays the command I entered, and the other lines display the output. I used the sudo apt remove suricata command to uninstall suricata on the machine. The output of my command indicates the uninstallation process.

Install the topdump application

The following code demonstrates how I used Linux commands to install topdump on the Linux OS.

```
analyst@8adb1fa734e9:~$ sudo apt install tcpdump
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
 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-afm-perl
 libgeoip1 libhiredis0.14 libhtml-form-perl libhtml-format-perl libhtml-parser-perl
 libhtml-tagset-perl libhtml-tree-perl libhttp2 libhttp-cookies-perl libhttp-daemon-perl
 libhttp-date-perl libhttp-message-perl libhttp-negotiate-perl libhyperscan5
 libio-html-perl libio-socket-ssl-perl libjansson4 libltdl7 libluajit-5.1-2
 libluajit-5.1-common liblwp-mediatypes-perl liblwp-protocol-https-perl libmailtools-perl
 libnet-http-perl libnet-smtp-ssl-perl libnet-ssleay-perl libnet1 libnetfilter-log1
 libnetfilter-queuel libnfnetlink0 libnspr4 libnss3 libprelude23 libpython-stdlib
 libpython2-stdlib libpython2.7-minimal libpython2.7-stdlib libtimedate-perl
 libtry-tiny-perl liburi-perl libwww-perl libwww-robotrules-perl libyaml-0-2 oinkmaster
 perl-openssl-defaults prelude-utils python python-minimal python-simplejson python2
 python2-minimal python2.7 python2.7-minimal snort-rules-default
Use 'sudo apt autoremove' to remove them.
Suggested packages:
 apparmor
```

The first line of the screenshot displays the command I entered, and the other lines display the output. I used the sudo apt install topdump command to install topdumpon the machine. The output of my command indicates the installation process.

List the installed applications

The following code demonstrates how I used Linux commands to ensure Advance Package Tool (APT) is installed on the Linux OS.

```
analyst@8adb1fa734e9:~$ apt list --installed
Listing... Done
adduser/oldoldstable, now 3.118 all [installed, automatic]
apt/oldoldstable,oldoldstable-updates,now 1.8.2.3 amd64 [installed,automatic]
pase-files/oldoldstable,now 10.3+deb10u13 amd64 [installed,automatic]
pase-passwd/oldoldstable,now 3.5.46 amd64 [installed,automatic]
bash/oldoldstable,now 5.0-4 amd64 [installed,automatic]
oinutils-common/oldoldstable, now 2.31.1-16 amd64 [installed, automatic]
pinutils-x86-64-linux-gnu/oldoldstable, now 2.31.1-16 amd64 [installed, automatic]
pinutils/oldoldstable,now 2.31.1-16 amd64 [installed,automatic]
bsdmainutils/oldoldstable,now 11.1.2+b1 amd64 [installed,automatic]
bsdutils/oldoldstable,now 1:2.33.1-0.1 amd64 [installed,automatic]
ouild-essential/oldoldstable,now 12.6 amd64 [installed,automatic]
bzip2/oldoldstable,now 1.0.6-9.2~deb10u2 amd64 [installed,automatic]
ca-certificates/oldoldstable,oldoldstable-updates,now 20200601~deb10u2 all [installed,automat
ic]
coreutils/oldoldstable,now 8.30-3 amd64 [installed,automatic]
cpp-8/oldoldstable,now 8.3.0-6 amd64 [installed,automatic]
pp/oldoldstable,now 4:8.3.0-1 amd64 [installed,automatic]
dash/oldoldstable,now 0.5.10.2-5 amd64 [installed,automatic]
dbus/now 1.12.24-0+deb10u1 amd64 [installed,upgradable to: 1.12.28-0+deb10u1]
debconf/oldoldstable, now 1.5.71+deb10u1 all [installed, automatic]
debian-archive-keyring/oldoldstable, now 2019.1+deb10u1 all [installed, upgradable to: 2019.1+d
eb10u2]
debianutils/oldoldstable, now 4.8.6.1 amd64 [installed, automatic]
dh-python/oldoldstable,now 3.20190308 all [installed,automatic]
```

The first line of the screenshot displays the command I entered, and the other lines display the output. I used the sudo apt list -install command to list all the apps installed on the machine. The output of my command displays the list of apps installed on my Linux OS.

Reinstall the Suricata application

The following code demonstrates how I used Linux commands to reinstall suricata on the Linux OS.

```
analyst@8adb1fa734e9:~$ sudo apt install suricata
Reading package lists... Done
Building dependency tree
Reading state information... Done
The 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-afm-perl
 libgeoip1 libhiredis0.14 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 libhttp-message-perl libhttp-negotiate-perl libhyperscan5
 libio-html-perl libio-socket-ssl-perl libjansson4 libltdl7 libluajit-5.1-2
 libluajit-5.1-common liblwp-mediatypes-perl liblwp-protocol-https-perl libmailtools-perl
 libnet-http-perl libnet-smtp-ssl-perl libnet-ssleay-perl libnet1 libnetfilter-log1
 libnetfilter-queuel libnfnetlink0 libnspr4 libnss3 libpcap0.8 libprelude23
 libpython-stdlib libpython2-stdlib libpython2.7-minimal libpython2.7-stdlib
 libtimedate-perl libtry-tiny-perl liburi-perl libwww-perl libwww-robotrules-perl
 libyaml-0-2 oinkmaster perl-openssl-defaults prelude-utils python python-minimal
 python-simplejson python2 python2-minimal python2.7 python2.7-minimal snort-rules-default
 suricata-oinkmaster
Suggested packages:
 libdigest-hmac-perl libgssapi-perl geoip-bin libcrypt-ssleay-perl libauthen-ntlm-perl
```

The first line of the screenshot displays the command I entered, and the other lines display the output. I used the sudo apt install suricata command to reinstall suricata on the machine. The output of my command indicates the installation process.