LAB TASK-423132

how to check if our iux is deb or rpm

SOL:

Method-1

```
student@student:~$ cat /etc/*release
DISTRIB_ID=Ubuntu
DISTRIB_RELEASE=20.04
DISTRIB_CODENAME=focal
DISTRIB_DESCRIPTION="Ubuntu 20.04.6 LTS"
NAME="Ubuntu"
VERSION="20.04.6 LTS (Focal Fossa)"
ID=ubuntu
ID_LIKE=debian
PRETTY_NAME="Ubuntu 20.04.6 LTS"
VERSION_ID="20.04"
HOME_URL="https://www.ubuntu.com/"
SUPPORT_URL="https://help.ubuntu.com/"
BUG_REPORT_URL="https://bugs.launchpad.net/ubuntu/"
PRIVACY_POLICY_URL="https://www.ubuntu.com/legal/terms-and-policies/privacy-policy"
VERSION_CODENAME=focal
UBUNTU_CODENAME=focal
```

here we can observe ID_LIKE=debian s given Method-2:

```
student@student:~$ dpkg --version
Debian 'dpkg' package management program version 1.19.7 (amd64).
This is free software; see the GNU General Public License version 2 or
later for copying conditions. There is NO warranty.
student@student:~$ rpm --version

Command 'rpm' not found, but can be installed with:

sudo apt install rpm
```

as my linux is not rpm ,it is showing to install rpm

Method-3:

```
student@student:~$ apt --version
apt 2.0.10 (amd64)
student@student:~$ yum --versio

Command 'yum' not found, did you mean:

  command 'gum' from snap gum (0.13.0)
  command 'num' from deb quickcal (2.4-1)
  command 'uum' from deb freewnn-jserver (1.1.1~a021+cvs20130302-7build1)
  command 'sum' from deb coreutils (8.30-3ubuntu2)
  command 'zum' from deb perforate (1.2-5.1)

See 'snap info <snapname>' for additional versions.
```

2)dpkg -l

```
student@student:~$ dpkg -l
Desired=Unknown/Install/Remove/Purge/Hold
| Status=Not/Inst/Conf-files/Unpacked/halF-conf/Half-inst/trig-aWait/Trig-pend
|/ Err?=(none)/Reinst-required (Status,Err: uppercase=bad)
||/ Name                       Version                      Architecture Description
+++-==========================-============================-============-================================================>
ii  accountsservice            0.6.55-0ubuntu12~20.04.7     amd64        query and manipulate user account information
ii  acl                        2.2.53-6                     amd64        access control list - utilities
ii  acpi-support               0.143                        amd64        scripts for handling many ACPI events
ii  acpid                      1:2.0.32-1ubuntu1            amd64        Advanced Configuration and Power Interface event daem>
ii  adduser                    3.118ubuntu2                 all          add and remove users and groups
ii  adwaita-icon-theme         3.36.1-2ubuntu0.20.04.2      all          default icon theme of GNOME (small subset)
ii  aisleriot                  1:3.22.9-1                   amd64        GNOME solitaire card game collection
ii  alex                       3.2.4-4build3                amd64        lexical analyser generator for Haskell
ii  algol68g                   2.8.4-1                      amd64        Implementation of Algol 68 as defined by the Revised >
ii  alsa-base                  1.0.25+dfsg-0ubuntu5         all          ALSA driver configuration files
ii  alsa-topology-conf         1.2.2-1                      all          ALSA topology configuration files
ii  alsa-ucm-conf              1.2.2-1ubuntu0.13            all          ALSA Use Case Manager configuration files
ii  alsa-utils                 1.2.2-1ubuntu2.1             amd64        Utilities for configuring and using ALSA
ii  amd64-microcode            3.20191218.1ubuntu1.2        amd64        Processor microcode firmware for AMD CPUs
ii  anacron                    2.3-29                       amd64        cron-like program that doesn't go by time
ii  apg                        2.2.3.dfsg.1-5               amd64        Automated Password Generator - Standalone version
ii  app-install-data-partner   19.04                        all          Application Installer (data files for partner applica>
ii  apparmor                   2.13.3-7ubuntu5.3build2      amd64        user-space parser utility for AppArmor
ii  apport                     2.20.11-0ubuntu27.27         all          automatically generate crash reports for debugging
ii  apport-gtk                 2.20.11-0ubuntu27.27         all          GTK+ frontend for the apport crash report system
ii  apport-symptoms            0.23                         all          symptom scripts for apport
ii  appstream                  0.12.10-2                    amd64        Software component metadata management
ii  apt                        2.0.10                       amd64        commandline package manager
ii  apt-config-icons           0.12.10-2                    all          APT configuration snippet to enable icon downloads
ii  apt-config-icons-hidpi     0.12.10-2                    all          APT configuration snippet to enable HiDPI icon downlo>
ii  apt-utils                  2.0.10                       amd64        package management related utility programs
ii  aptdaemon                  1.1.1+bzr982-0ubuntu32.3     all          transaction based package management service
ii  aptdaemon-data             1.1.1+bzr982-0ubuntu32.3     all          data files for clients
ii  apturl                     0.5.2ubuntu19                amd64        install packages using the apt protocol - GTK+ fronte>
ii  apturl-common              0.5.2ubuntu19                amd64        install packages using the apt protocol - common data
ii  aspell                     0.60.8-1ubuntu0.1            amd64        GNU Aspell spell-checker
ii  aspell-en                  2018.04.16-0-1               all          English dictionary for GNU Aspell
ii  at                         3.1.23-1ubuntu1              amd64        Delayed job execution and batch processing
ii  at-spi2-core               2.36.0-2                     amd64        Assistive Technology Service Provider Interface (dbus>
ii  autoconf                   2.69-11.1                    all          automatic configure script builder
ii  automake                   1:1.16.1-4ubuntu6            all          Tool for generating GNU Standards-compliant Makefiles
```

3)which dpkg

```
student@student:~$ which dpkg
/usr/bin/dpkg
```

INSTALLING deb files

1)using dpkg cmd

Syntax:**sudo dpkg -i [package path]**

```
student@student:~$ sudo dpkg -i ~/Downloads/cloudflare_warp_2022_7_472_1_amd64_77aa79eba3.deb
(Reading database ... 221558 files and directories currently installed.)
Preparing to unpack .../cloudflare_warp_2022_7_472_1_amd64_77aa79eba3.deb ...
Unpacking cloudflare-warp (2022.7.472-1) over (2022.7.472-1) ...
Setting up cloudflare-warp (2022.7.472-1) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
```

2)by using apt

Syntax:**sudo apt install [package path]**

```
student@student:~$ sudo apt install ~/Downloads/google-chrome-stable_current_amd64.deb
Reading package lists... Done
Building dependency tree
Reading state information... Done
Note, selecting 'google-chrome-stable' instead of '/home/student/Downloads/google-chrome-stable_current_amd64.deb'
The following packages were automatically installed and are no longer required:
  hplip-data libcgi-fast-perl libcgi-pm-perl libevent-core-2.1-7 libevent-pthreads-2.1-7 libfcgi-perl libfprint-2-tod1 libhtml-template-perl
  libimagequant0 libreadline5 printer-driver-postscript-hp python3-olefile python3-pil python3-renderpm python3-reportlab python3-reportlab-accel shim
Use 'sudo apt autoremove' to remove them.
The following packages will be DOWNGRADED:
  google-chrome-stable
0 upgraded, 0 newly installed, 1 downgraded, 0 to remove and 263 not upgraded.
Need to get 0 B/91.2 MB of archives.
After this operation, 40.7 MB disk space will be freed.
Do you want to continue? [Y/n] y
Get:1 /home/student/Downloads/google-chrome-stable_current_amd64.deb google-chrome-stable amd64 105.0.5195.125-1 [91.2 MB]
dpkg: warning: downgrading google-chrome-stable from 120.0.6099.199-1 to 105.0.5195.125-1
(Reading database ... 221558 files and directories currently installed.)
Preparing to unpack .../google-chrome-stable_current_amd64.deb ...
Unpacking google-chrome-stable (105.0.5195.125-1) over (120.0.6099.199-1) ...
Setting up google-chrome-stable (105.0.5195.125-1) ...
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...
```

3)using gdebi first install

Gdebi GU by cmd **sudo apt**

install gdebi -y

now use gdebi to install deb files in terminal

Syntax:**sudo gdebi [package path]**

```
student@student:~$ sudo gdebi ~/Downloads/google-chrome-stable_current_amd64.deb
Reading package lists... Done
Building dependency tree
Reading state information... Done
Reading state information... Done

The web browser from Google
 Google Chrome is a browser that combines a minimal design with sophisticated technology to make the web faster, safer, and easier.
Do you want to install the software package? [y/N]:y
/usr/bin/gdebi:113: FutureWarning: Possible nested set at position 1
  c = findall("[[(](\S+)/\S+[])]", msg)[0].lower()
(Reading database ... 231894 files and directories currently installed.)
Preparing to unpack .../google-chrome-stable_current_amd64.deb ...
Unpacking google-chrome-stable (105.0.5195.125-1) over (105.0.5195.125-1) ...
Setting up google-chrome-stable (105.0.5195.125-1) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
```

REMOVING deb packages

1) using dpkg

Syntax:**sudo dpkg -r [software name]**

```
student@student:~$ sudo dpkg -r google-chrome-stable
(Reading database ... 231894 files and directories currently installed.)
Removing google-chrome-stable (105.0.5195.125-1) ...
update-alternatives: using /usr/bin/firefox to provide /usr/bin/x-www-browser (x-www-browser) in auto mode
update-alternatives: using /usr/bin/firefox to provide /usr/bin/gnome-www-browser (gnome-www-browser) in auto mode
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...
Processing triggers for mime-support (3.64ubuntu1) ...
student@student:~$
```

2)using apt

Syntax:**sudo apt remove [software name]**

```
student@student:~$ sudo apt remove    google-chrome-stable
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  hplip-data libcgi-fast-perl libcgi-pm-perl libevent-core-2.1-7 libevent-pthreads-2.1-7 libfcgi-perl libfprint-2-tod1 libhtml-template-perl
  libimagequant0 libreadline5 printer-driver-postscript-hp python3-olefile python3-pil python3-renderpm python3-reportlab python3-reportlab-accel shim
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
  google-chrome-stable
0 upgraded, 0 newly installed, 1 to remove and 263 not upgraded.
After this operation, 298 MB disk space will be freed.
Do you want to continue? [Y/n] y
(Reading database ... 231894 files and directories currently installed.)
Removing google-chrome-stable (105.0.5195.125-1) ...
update-alternatives: using /usr/bin/firefox to provide /usr/bin/x-www-browser (x-www-browser) in auto mode
update-alternatives: using /usr/bin/firefox to provide /usr/bin/gnome-www-browser (gnome-www-browser) in auto mode
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...
```

INSTALLING alien

```
student@student:~$ sudo apt update

tudent@student:~$ sudo apt install alien -y
```