take_home_test_clymber

April 26, 2023

1 Take home test from Clymber Loong

1.1 URL of git repo

- https://github.com/KylinDragon/take-home-work.git

1.2 URL of launchpad ppa

- https://launchpad.net/~clymber/+archive/ubuntu/cmatrix

1.3 The reference guides for the next engineer who is new to the task.

- Development environment set up reference: **getting_set_up.pdf**
- The steps of building a debian package: **do_homework.pdf**
- How to upload source package to ppa, and install from ppa: **ppa.pdf**
  > Note: All the .pdf documents above have a jupyter nobook version > that can be executed, they are available in the git repo above.

1.4 The output of the installation and testing.sh

```
$ sudo apt-get install cmatrix
Reading package lists… 0%
Reading package lists… 100%
Reading package lists… Done
Building dependency tree… 0%
Building dependency tree… 0%
Building dependency tree… 50%
Building dependency tree… 50%
Building dependency tree… Done
Reading state information… 0%
Reading state information… 0%
Reading state information… Done
```

The following package was automatically installed and is no longer required:
docker-scan-plugin
Use 'sudo apt autoremove' to remove it.
Suggested packages:
cmatrix-xfont
The following NEW packages will be installed:
cmatrix

0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 0 B/18.4 kB of archives.
After this operation, 55.3 kB of additional disk space will be used.
Selecting previously unselected package cmatrix.
(Reading database … 226799 files and directories currently installed.)
Preparing to unpack …/cmatrix_2.0-3ubuntu4ppa1~ubuntu22.04.1_amd64.deb …
Unpacking cmatrix (2.0-3ubuntu4ppa1~ubuntu22.04.1) …
Setting up cmatrix (2.0-3ubuntu4ppa1~ubuntu22.04.1) …
this is a test from Clymber Loong
Processing triggers for mailcap (3.70+nmu1ubuntu1) …
Processing triggers for desktop-file-utils (0.26-1ubuntu3) …
Processing triggers for gnome-menus (3.36.0-1ubuntu3) …
Processing triggers for man-db (2.10.2-1) …

```
$ dpkg -S testing.sh; testing.sh
```
cmatrix: /usr/bin/testing.sh
this is a test from Clymber Loong

*Note: The steps and output can be found within **ppa.pdf** and **pda.ipynb***