Trần Tấn Phát

2274802010644

LAB2:

Bài làm

**Bài 1.** Cập nhật gói phần mềm hiện tại. Sau đó cài đặt gói **figlet**. Kiểm tra xem gói **figlet** đã được cài thành công hay không bằng cách sử dụng thử những tính năng củ nó. Sau đó xóa **figlet** ra khỏi hệ thống. Kiểm tra figlet đã được xóa/gỡ bằng cách thử chạy lại **figlet** và gặp lỗi.

# Cập nhật gói phần mềm hiện tại

```
ubuntu@ubuntu-22/4802010644:~/iDragonCloud$ sudo apt update && sudo apt upgrade |
Hit:1 http://archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Get:5 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [3641 k
Get:6 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages
Get:7 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [15
Get:8 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [3327
Get:9 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [
1274 kB]
Fetched 15.7 MB in 4s (3631 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
```

```
[ubuntu@ubuntu-2274802010644:~/iDragonCloud$ sudo apt install figlet -y Reading package lists... Done Building dependency tree... Done Reading state information... Done figlet is already the newest version (2.2.5-3). 0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
```

# In chữ "DevOps Lab"

# Gỡ figlet khỏi terminal

```
ubuntu@ubuntu-2274802010644:~/iDragonCloud$ sudo apt remove --purge figlet -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages will be REMOVED:
   figlet*
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.
After this operation, 752 kB disk space will be freed.
(Reading database ... 14935 files and directories currently installed.)
Removing figlet (2.2.5-3) ...
(Reading database ... 14858 files and directories currently installed.)
Purging configuration files for figlet (2.2.5-3) ...
ubuntu@ubuntu-2274802010644:~/iDragonCloud$
```

## Kiểm tra figlet sau khi gỡ khỏi terminal

```
[ubuntu@ubuntu-2274802010644:~/iDragonCloud$ figlet "Test"
bash: /usr/bin/figlet: No such file or directory
ubuntu@ubuntu-2274802010644:~/iDragonCloud$ ■
```

### Bài 2.

- a) Cài đặt phần mềm **lolcat**. Kết hợp phần mềm này với phần mềm **figlet** để biến text thành cầu vồng trên terminal.
- b) Cài đặt phần mềm cowsay. Kết hợp cowsay với lolcat để vẽ hình ảnh có màu trên terminal.
- c) Cài đặt phần mềm **fortune-mod**. Kết hợp **fortune-mod** với **lolcat** để tạo ra 1 đoạn danh ngôn có animation trên terminal.
- d) Cài đặt phần mềm sl. Kết hợp sl với lolcat và xem kết quả.
- e) Cài đặt phần mềm **text editor** cho Linux Command Line. Sử dụng phần mềm đã cài đặt để viết nôi dung dưới đây vào file có tên "**text.txt**".

```
ubuntu@ubuntu-2274802010644:~/iDragonCloud$ sudo apt install ruby -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
 fonts-lato javascript-common libjs-jquery libruby3.0 rake ruby-net-telnet
 ruby-rubygems ruby-webrick ruby-xmlrpc ruby3.0 rubygems-integration zip
Suggested packages:
 apache2 | lighttpd | httpd ri ruby-dev bundler
The following NEW packages will be installed:
 fonts-lato javascript-common libjs-jquery libruby3.0 rake ruby
 ruby-net-telnet ruby-rubygems ruby-webrick ruby-xmlrpc ruby3.0
 rubygems-integration zip
 upgraded, 13 newly installed, 0 to remove and 0 not upgraded.
leed to get 8753 kB of archives.
After this operation, 38.3 MB of additional disk space will be used.
et:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 fonts-lato all 2.0-2.1
2696 kBl
et:2 http://archive.ubuntu.com/ubuntu jammy/main amd64 javascript-common all 1
nmu1 [5936 B]
ubuntu@ubuntu-2274802010644:~/iDragonCloud$ sudo gem install lolcat
Fetching lolcat-100.0.1.gem
Fetching optimist-3.0.1.gem
Fetching paint-2.3.0.gem
Fetching manpages-0.6.1.gem
Successfully installed paint-2.3.0
Successfully installed optimist-3.0.1
Successfully installed manpages-0.6.1
Successfully installed lolcat-100.0.1
Parsing documentation for paint-2.3.0
Installing ri documentation for paint-2.3.0
Parsing documentation for optimist-3.0.1
Installing ri documentation for optimist-3.0.1
Parsing documentation for manpages-0.6.1
Installing ri documentation for manpages-0.6.1
Parsing documentation for lolcat-100.0.1
Installing ri documentation for lolcat-100.0.1
Done installing documentation for paint, optimist, manpages, lolcat after 0 sec
nds
4 gems installed
```

```
[ubuntu@ubuntu-2274802010644:~/iDragonCloud$ sudo apt install cowsay -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libtext-charwidth-perl
Suggested packages:
  filters cowsay-off
The following NEW packages will be installed:
  cowsay libtext-charwidth-perl
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 28.7 kB of archives.
After this operation, 139 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 libtext-charwidth-perl a
md64 0.04-10build3 [10.2 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy/universe amd64 cowsay all 3.03+dfsg
2-8 [18.6 kB]
Fetched 28.7 kB in 1s (37.1 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package libtext-charwidth-perl.
(Reading database ... 17887 files and directories currently installed.)
Preparing to unpack .../libtext-charwidth-perl_0.04-10build3_amd64.deb ...
Unpacking libtext-charwidth-perl (0.04-10build3) ...
Selecting previously unselected package cowsay.
Preparing to unpack .../cowsay_3.03+dfsg2-8_all.deb ...
Unpacking cowsay (3.03+dfsg2-8) ...
Setting up libtext-charwidth-perl (0.04-10build3) ...
Setting up cowsay (3.03+dfsg2-8) ...
```



#### Rài 3

Liệt kê tất cả những dependencies và phiên bản của chúng trong quá trình cài đặt những phần mềm trong bài.

```
ubuntu@ubuntu-2274802010644:~/iDragonCloud$ apt list --installed
Listing... Done
adduser/jammy,now 3.118ubuntu5 all [installed]
apt/jammy-updates,now 2.4.14 amd64 [installed]
pase-files/jammy-updates,now 12ubuntu4.7 amd64 [installed]
pase-passwd/jammy,now 3.5.52build1 amd64 [installed]
pash/jammy-updates,jammy-security,now 5.1-6ubuntu1.1 amd64 [installed]
psdutils/jammy-updates,jammy-security,now 1:2.37.2-4ubuntu3.4 amd64 [installed]
pzip2/jammy,now 1.0.8-5build1 amd64 [installed,automatic]
ca-certificates/jammy-updates,jammy-security,now 20240203~22.04.1 all [installed
,automatic]
coreutils/jammy-updates,now 8.32-4.1ubuntu1.2 amd64 [installed]
cowsay/jammy,now 3.03+dfsq2-8 all [installed]
curl/jammy-updates,jammy-security,now 7.81.0-1ubuntu1.20 amd64 [installed]
dash/jammy,now 0.5.11+git20210903+057cd650a4ed-3build1 amd64 [installed]
bus/jammy-updates,jammy-security,now 1.12.20-2ubuntu4.1 amd64 [installed,automa
tic]
debconf/jammy,now 1.5.79ubuntu1 all [installed]
debianutils/jammy,now 5.5-1ubuntu2 amd64 [installed]
diffutils/jammy,now 1:3.8-0ubuntu2 amd64 [installed]
dirmngr/jammy-updates.jammy-security.now 2.2.27-3ubuntu2.4 amd64 [installed.auto
matic]
distro-info-data/jammy-updates,now 0.52ubuntu0.9 all [installed,automatic]
dmsetup/jammy-updates,now 2:1.02.175-2.1ubuntu5 amd64 [installed,automatic]
dpkg/jammy-updates,now 1.21.1ubuntu2.3 amd64 [installed]
e2fsprogs/jammy-updates,now 1.46.5-2ubuntu1.2 amd64 [installed]
iglet/jammy,now 2.2.5-3 amd64 [installed]
ile/jammy-updates,jammy-security,now 1:5.41-3ubuntu0.1 amd64 [installed,automat
ic]
findutils/jammy,now 4.8.0-1ubuntu3 amd64 [installed]
fonts-lato/jammy,now 2.0-2.1 all [installed,automatic]
fuse3/jammy,now 3.10.5-1build1 amd64 [installed]
gcc-12-base/jammy-updates,jammy-security,now 12.3.0-1ubuntu1~22.04.2 amd64 [inst
alled]
gir1.2-glib-2.0/jammy,now 1.72.0-1 amd64 [installed,automatic]
gir1.2-packagekitglib-1.0/jammy-updates,now 1.2.5-2ubuntu3 amd64 [installed,auto
matic]
git-man/jammy-updates,jammy-security,now 1:2.34.1-1ubuntu1.15 all [installed,aut
qit/jammy-updates,jammy-security,now 1:2.34.1-1ubuntu1.15 amd64 [installed]
gnupg-l10n/jammy-updates,jammy-security,now 2.2.27-3ubuntu2.4 all [installed,aut
omatic]
```

```
[ubuntu@ubuntu-2274802010644:~/iDragonCloud$ apt-cache depends cowsay
  cowsay
  Depends: libtext-charwidth-perl
  Depends: <perl:any>
     perl
  Suggests: filters
  Suggests: cowsay-off
```

**Bài 4.**Cài đặt gói phần mềm có tên **Asciiquarium**. Kiểm tra kết quả cài đặt bằng cách chạy các câu lệnh của **Asciiquarium** trên terminal.

```
it:1 http://security.ubuntu.com/ubuntu jammy-security InRelease
it:2 http://archive.ubuntu.com/ubuntu jammy InRelease
it:3 http://archive.ubuntu.com/ubuntu jammy-updates InRelease
it:4 http://archive.ubuntu.com/ubuntu jammy-backports InRelease
leading package lists... Done
uilding dependency tree... Done
eading state information... Done
ll packages are up to date.
buntu@ubuntu-2274802010644:~/iDragonCloud$ sudo apt install perl wget -y
leading package lists... Done
uilding dependency tree... Done
leading state information... Done
erl is already the newest version (5.34.0-3ubuntu1.5).
erl set to manually installed.
get is already the newest version (1.21.2-2ubuntu1.1).
upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
buntu@ubuntu-2274802010644:~/iDragonCloud$ wget http://www.robobunny.com/projec
s/asciiquarium/asciiquarium.tar.gz
-2025-09-19 01:01:32-- http://www.robobunny.com/projects/asciiquarium/asciiqua
ium.tar.gz
esolving www.robobunny.com (www.robobunny.com)... 136.61.69.135
onnecting to www.robobunny.com (www.robobunny.com)|136.61.69.135|:80... tar -xv
f asciiquarium.tar.gzfailed: Connection timed out.
etrying.
-2025-09-19 01:03:46-- (try: 2) http://www.robobunny.com/projects/asciiquariu
/asciiquarium.tar.qz
onnecting to www.robobunny.com (www.robobunny.com)|136.61.69.135|:80...
```

