

Tests of installation process

Ubuntu 11.04 Natty

I have downloaded the image <https://s3.amazonaws.com/cloudbiolinux/vms/Cloud+BioLinux+32bit.ova> [<https://s3.amazonaws.com/cloudbiolinux/vms/Cloud+BioLinux+32bit.ova>] and the installation process was complete successfully.

I was not be able to update anything because Ubuntu 11.04 (natty) is no longer supported.

Ubuntu 12.04 (precise) - 13.04 (raring)

I have installed from scratch on a local machine, following step-by-step the documentation:

- <https://github.com/chapmanb/cloudbiolinux/blob/master/README.md#installing-cloudbiolinux-on-a-local-machine>
[<https://github.com/chapmanb/cloudbiolinux/blob/master/README.md#installing-cloudbiolinux-on-a-local-machine>]

phase 1: cloning via git

```
git clone git://github.com/chapmanb/cloudbiolinux.git
```

first error:

Some required packages are not available:

```
piro@ubuntu1304-tesi-base:~/tesi$ git clone git://github.com/chapmanb/cloudbiolinux.git
The program 'git' is currently not installed. You can install it by typing:
sudo apt-get install git
```

therefore I have installed them (as specified in the **bootstrap.sh** script):

```
apt-get update
apt-get -y install git-core fabric python-setuptools python-yaml openssh-server
```

After this I ran again the cloning process:

```
git clone git://github.com/chapmanb/cloudbiolinux.git
cd cloudbiolinux
python setup.py build
sudo python setup.py install
```

phase 2: installation via fabric

After cloning process, we were able to install CBL environment via **fabric** (only packages):

```
fab -f fabfile.py -H localhost install_biolinux:packages
```

second error: brew.py

There are some problem with the **brew.py** script:

```
Traceback (most recent call last):
  File "/usr/lib/python2.7/dist-packages/fabric/main.py", line 637, in main
    docstring, callables, default = load_fabfile(fabfile)
  File "/usr/lib/python2.7/dist-packages/fabric/main.py", line 164, in load_fabfile
    imported = importer(os.path.splitext(fabfile)[0])
  File "/home/piero/tesi/cloudbiolinux/fabfile.py", line 33, in <module>
    from cloudbio.utils import setup_logging, configure_fabric_environment
  File "/home/piero/tesi/cloudbiolinux/cloudbio/utils.py", line 12, in <module>
    from cloudbio.edition import setup_edition
  File "/home/piero/tesi/cloudbiolinux/cloudbio/edition/__init__.py", line 9, in <module>
    from cloudbio.edition.base import (Edition, Minimal, BioNode,
  File "/home/piero/tesi/cloudbiolinux/cloudbio/edition/base.py", line 7, in <module>
    from cloudbio.cloudman import configure_cloudman
  File "/home/piero/tesi/cloudbiolinux/cloudbio/cloudman.py", line 23, in <module>
    from cloudbio.package.shared import yaml_to_packages
  File "/home/piero/tesi/cloudbiolinux/cloudbio/package/__init__.py", line 8, in <module>
    from cloudbio.package import brew
  File "/home/piero/tesi/cloudbiolinux/cloudbio/package/brew.py", line 10, in <module>
    from fabric.api import quiet
ImportError: cannot import name quiet
```

I have temporarily removed the import of **brew** package from **init.py** and I have restarted the installation process:

```
fab -f fabfile.py -H localhost install_biolinux:packages
```

third error: packages not available

The installation process was interrupted several times due to packages not available:

```
...
Package bio-linux-estscan is not available, but is referred to by another package.
This may mean that the package is missing, has been obsoleted, or
is only available from another source
E: Unable to locate package bio-linux-dotter
E: Package 'bio-linux-estscan' has no installation candidate
Fatal error: local() encountered an error (return code 100) while executing 'sudo http_proxy=$http_proxy https_proxy=$https_proxy bash -c "apt-get -y
Aborting.
3 bio-linux-jprofilegrid bio-linux-msatfinder bio-linux-rbs-finder bio-linux-transterm-hp bio-linux-trnascan"
```

check available packages

To avoid further disruptions of the installation process, I made a script to check the packages that are not available (or not installables); the packages that are not available were

removed from the installation process:

```
321c321
< - bio-linux-catchall
---
> #- bio-linux-catchall
333,334c333,334
< - bio-linux-blixem
< - bio-linux-fasta
---
> #- bio-linux-blixem
> #- bio-linux-fasta
336c336
< - bio-linux-msp crunch
---
> #- bio-linux-msp crunch
342c342
< - bio-linux-dotter
---
> #- bio-linux-dotter
366,367c366,367
< - bio-linux-cap3
< - bio-linux-dust
---
> #- bio-linux-cap3
> #- bio-linux-dust
371c371
< - bio-linux-tablet
---
> #- bio-linux-tablet
376c376
< - tigr-glimmer
---
> #- tigr-glimmer
378c378
< - bio-linux-big-blast
---
> #- bio-linux-big-blast
380c380
< - bio-linux-estscan
---
> #- bio-linux-estscan
395c395
< - bio-linux-qiime
---
> #- bio-linux-qiime
398,399c398,399
< - bio-linux-oligoarray
< - bio-linux-oligoarrayaux
---
> #- bio-linux-oligoarray
> ##- bio-linux-oligoarrayaux
496,497c496,497
< - bio-linux-omegamap
< - bio-linux-qlcart
---
> #- bio-linux-omegamap
> #- bio-linux-qlcart
501c501
< - bio-linux-fasttree
---
> #- bio-linux-fasttree
586,587c586,587
< - "r-base-core=3.0.0-2quantal"
< - "r-base-dev=3.0.0-2quantal"
---
> #- "r-base-core=3.0.0-2quantal"
> #- "r-base-dev=3.0.0-2quantal"
589,590c589,590
< - "r-base-core=3.0.0-2precise"
< - "r-base-dev=3.0.0-2precise"
---
> #- "r-base-core=3.0.0-2precise"
> #- "r-base-dev=3.0.0-2precise"
```

After this I ran again the the installation process:

```
fab -f fabfile.py -H localhost install_biolinux:packages
```

and the installation process was complete successfully:

```
[localhost] local: sudo http_proxy=$http_proxy https_proxy=$https_proxy bash -c "apt-get clean"
Done.
```

verify packages

packages not installed

After the installation process, I checked packages which have not been installed:

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```
NON INSTALLED: accountsservice
NON INSTALLED: acl
NON INSTALLED: activity-log-manager-common
NON INSTALLED: activity-log-manager-control-center
NON INSTALLED: adium-theme-ubuntu
NON INSTALLED: aisleriot
NON INSTALLED: alsa-base
NON INSTALLED: alsa-utils
NON INSTALLED: antlr3
NON INSTALLED: apache2-mpm-worker
NON INSTALLED: apg
NON INSTALLED: app-install-data-partner
NON INSTALLED: appmenu-gtk3
NON INSTALLED: at-spi2-core
NON INSTALLED: avahi-autoipd
NON INSTALLED: avahi-utils
NON INSTALLED: axel
NON INSTALLED: baobab
NON INSTALLED: bio-linux-blast
NON INSTALLED: bio-linux-fasttree
NON INSTALLED: bio-linux-gap2caf
NON INSTALLED: bio-linux-prevent-upgrade
NON INSTALLED: bluez
```

```
NON INSTALLED: bluez-alsa
NON INSTALLED: bluez-alsa:i386
NON INSTALLED: bluez-cups
...
```

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```
NON INSTALLED: binfmt-support
NON INSTALLED: bio-linux-assembly-conversion-tools
NON INSTALLED: bio-linux-base-directories
NON INSTALLED: bio-linux-big-blast
NON INSTALLED: bio-linux-blast+
NON INSTALLED: bio-linux-blixem
NON INSTALLED: bio-linux-cap3
NON INSTALLED: bio-linux-clcsequenceviewer
NON INSTALLED: bio-linux-coalesce
NON INSTALLED: bio-linux-das-prep
NON INSTALLED: bio-linux-dotter
NON INSTALLED: bio-linux-dust
NON INSTALLED: bio-linux-estscan
NON INSTALLED: bio-linux-exchanger
NON INSTALLED: bio-linux-fasta
NON INSTALLED: bio-linux-fasttree
NON INSTALLED: bio-linux-fluctuate
NON INSTALLED: bio-linux-forester
...
```

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```
NON INSTALLED: binfmt-support
NON INSTALLED: bio-linux-assembly-conversion-tools
NON INSTALLED: bio-linux-base-directories
NON INSTALLED: bio-linux-big-blast
NON INSTALLED: bio-linux-blast+
NON INSTALLED: bio-linux-blixem
NON INSTALLED: bio-linux-cap3
NON INSTALLED: bio-linux-clcsequenceviewer
NON INSTALLED: bio-linux-coalesce
NON INSTALLED: bio-linux-das-prep
NON INSTALLED: bio-linux-dotter
NON INSTALLED: bio-linux-dust
NON INSTALLED: bio-linux-estscan
NON INSTALLED: bio-linux-exchanger
NON INSTALLED: bio-linux-fasta
...
```

different versioning

There are many differences in versioning compared with <https://github.com/chapmanb/cloudbiolinux/tree/master/manifest> [<https://github.com/chapmanb/cloudbiolinux/tree/master/manifest>]:

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packages with version OK

```
--> OK: anacron - 2.3-14ubuntu1
--> OK: bc - 1.06.95-2
--> OK: bio-linux-clustal - 1:1bl-6
--> OK: bio-linux-das-prep - 0.1-4
--> OK: bio-linux-exchanger - 1.0-4
--> OK: bio-linux-fastdnaml - 1:1bl-0
--> OK: bio-linux-forester - 1.92-10
--> OK: bio-linux-genquery - 2.2.4-3
--> OK: bio-linux-happy - 1.2-1
--> OK: bio-linux-maxd - 2.3.0-5
--> OK: bio-linux-mesquite - 2.74-1
--> OK: bio-linux-migrate - 3.1.2-1
--> OK: bio-linux-mview - 1.51-2
--> OK: bio-linux-ncbi-tools-x11 - 1:1bl-2
--> OK: bio-linux-ocount - 0.5-0
--> OK: bio-linux-oligoarray - 2.1-8
--> OK: bio-linux-oligoarrayaux - 3.7-0
--> ...
```

packages with different version (M=Manifest - I=Installed)

```
-----> K0: acpi-support - (M)0.140' - (I)0.138
-----> K0: acpid - (M)1:2.0.10-1ubuntu3 - (I)1:2.0.7-1ubuntu2
-----> K0: adduser - (M)3.113ubuntu2 - (I)3.112+nmulubuntu5
-----> K0: alacarte - (M)0.13.2-2ubuntu4 - (I)0.13.2-1ubuntu2
-----> K0: ant - (M)1.8.2-4build1 - (I)1.8.1-1
-----> K0: ant-optional - (M)1.8.2-4build1 - (I)1.8.1-1
-----> K0: apache2 - (M)2.2.22-1ubuntu1 - (I)2.2.17-1ubuntu1
-----> K0: apache2-utils - (M)2.2.22-1ubuntu1 - (I)2.2.17-1ubuntu1
-----> K0: apache2.2-bin - (M)2.2.22-1ubuntu1 - (I)2.2.17-1ubuntu1
-----> K0: apache2.2-common - (M)2.2.22-1ubuntu1 - (I)2.2.17-1ubuntu1
-----> K0: app-install-data - (M)0.12.04.4 - (I)0.11.04.7.4
-----> K0: apparmor - (M)2.7.102-0ubuntu3.1 - (I)2.6.1-0ubuntu3
-----> K0: appmenu-gtk - (M)0.3.92-0ubuntu1 - (I)0.2.1-0ubuntu3
-----> K0: appmenu-gt - (M)0.2.6-0ubuntu1 - (I)0.1.2-0ubuntu1
-----> K0: appport - (M)2.0.1-0ubuntu8 - (I)1.20.1-0ubuntu5
-----> K0: appport-gtk - (M)2.0.1-0ubuntu8 - (I)1.20.1-0ubuntu5
-----> K0: appport-symptoms - (M)0.16' - (I)0.12
-----> K0: apt - (M)0.8.16-exp12ubuntu10.2 - (I)0.8.13.2ubuntu3
-----> K0: apt-transport-https - (M)0.8.16-exp12ubuntu10.2 - (I)0.8.13.2ubuntu3
-----> K0: apt-utils - (M)0.8.16-exp12ubuntu10.2 - (I)0.8.13.2ubuntu3
-----> K0: apt-xapian-index - (M)0.44ubuntu5 - (I)0.41ubuntu6
-----> ...
```

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packages with version OK

```
--> OK: acl - 2.2.51-5ubuntu1
--> OK: acpid - 1:2.0.10-1ubuntu3
--> OK: adduser - 3.113ubuntu2
--> OK: adium-theme-ubuntu - 0.3.2-0ubuntu1
--> OK: aisleriot - 1:3.2.3.2-0ubuntu1
--> OK: alacarte - 0.13.2-2ubuntu4
--> OK: anacron - 2.3-14ubuntu1
--> OK: ant - 1.8.2-4build1
--> OK: ant-optional - 1.8.2-4build1
--> OK: antlr3 - 3.2.is.3.2-0ubuntu1
```

```
---> OK: apg - 2.2.3.dfsg.1-2
---> OK: app-install-data - 0.12.04.4
---> OK: app-install-data-partner - 12.12.04.1
---> OK: appmenu-qt - 0.2.6-0ubuntu1
---> ...
```

packages with different version (M=Manifest - I=Installed)

```
-----> K0: accountsservice - (M)0.6.15-2ubuntu9 - (I)0.6.15-2ubuntu9.6
-----> K0: acpi-support - (M)'0.140' - (I)0.140.1
-----> K0: activity-log-manager-common - (M)0.9.4-0ubuntu3 - (I)0.9.4-0ubuntu3.2
-----> K0: activity-log-manager-control-center - (M)0.9.4-0ubuntu3 - (I)0.9.4-0ubuntu3.2
-----> K0: alsa-base - (M)1.0.25+dfsg-0ubuntu1 - (I)1.0.25+dfsg-0ubuntu1.1
-----> K0: alsa-utils - (M)1.0.25-1ubuntu5 - (I)1.0.25-1ubuntu5.2
-----> K0: apache2 - (M)2.2.22-1ubuntu1 - (I)2.2.22-1ubuntu1.4
-----> K0: apache2-mpm-worker - (M)2.2.22-1ubuntu1 - (I)2.2.22-1ubuntu1.4
-----> K0: apache2-utils - (M)2.2.22-1ubuntu1 - (I)2.2.22-1ubuntu1.4
-----> K0: apache2-bin - (M)2.2.22-1ubuntu1 - (I)2.2.22-1ubuntu1.4
-----> K0: apache2-common - (M)2.2.22-1ubuntu1 - (I)2.2.22-1ubuntu1.4
-----> K0: apparmor - (M)2.7.102-0ubuntu3.1 - (I)2.7.102-0ubuntu3.9
-----> K0: appmenu-gtk - (M)0.3.92-0ubuntu1 - (I)0.3.92-0ubuntu1.1
-----> K0: appmenu-gtk3 - (M)0.3.92-0ubuntu1 - (I)0.3.92-0ubuntu1.1
-----> K0: apport - (M)2.0.1-0ubuntu8 - (I)2.0.1-0ubuntu17.4
-----> K0: apport-gtk - (M)2.0.1-0ubuntu8 - (I)2.0.1-0ubuntu17.4
-----> K0: apport-symptoms - (M)'0.16' - (I)0.16.1
-----> ...
```

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packages with version OK

```
---> OK: axel - 2.4-1
---> OK: bio-linux-blcp-files - 1.1-96
---> OK: bio-linux-dendroscope - 1.4.0-5
---> OK: bio-linux-genquery - 2.2.4-3
---> OK: c2hs - 0.16.3-2
---> OK: cabal-install - 0.14.0-2
---> OK: clustalw - 2.1+lgpl-2
---> OK: clustalx - 2.1+lgpl-2
---> OK: cpu-checker - 0.7-0ubuntu1
---> OK: dialign - 2.2.1-5
---> ...
```

packages with different version (M=Manifest - I=Installed)

```
-----> K0: accountsservice - (M)0.6.15-2ubuntu9 - (I)0.6.29-1ubuntu8
-----> K0: acl - (M)2.2.51-5ubuntu1 - (I)2.2.51-8ubuntu3
-----> K0: acpi-support - (M)'0.140' - (I)0.141
-----> K0: acpid - (M)1:2.0.10-1ubuntu3 - (I)1:2.0.18-1ubuntu1
-----> K0: activity-log-manager-common - (M)0.9.4-0ubuntu3 - (I)0.9.4-0ubuntu6.2
-----> K0: activity-log-manager-control-center - (M)0.9.4-0ubuntu3 - (I)0.9.4-0ubuntu6.2
-----> K0: adduser - (M)3.113ubuntu2 - (I)3.113+nmu3ubuntu1
-----> K0: adium-theme-ubuntu - (M)0.3.2-0ubuntu1 - (I)0.3.3-0ubuntu1
-----> K0: aisleriot - (M)1:3.2.3.2-0ubuntu1 - (I)1:3.6.2-0ubuntu1
-----> ...
```

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