



MASTER OF SCIENCE
IN ENGINEERING

UNIVERSITY OF APPLIED SCIENCES WESTERN SWITZERLAND
MSE - SOFTWARE ENGINEERING

Projet d'approfondissement

Authors:

Déruaz Vincent

Supervisors:

Déruaz Vincent

Hes·SO

Haute Ecole Spécialisée
de Suisse occidentale

Fachhochschule Westschweiz

University of Applied Sciences and Arts
Western Switzerland

Lausanne, March 31, 2016

Contents

1	Setup Phamerator	2
1.1	Before	2
1.2	Procedure	2
1.3	PhamDB	2

1 Setup Phamerator

1.1 Before

This chapter details what has been made to use Phamerator on an "ubuntu-14.04.3-desktop-amd64" virtual machine.

You'll see that biopython need to be downgrade to a version < 1.50 because of Clustalw.

1.2 Procedure

This procedure has been tested on 30.03.2016 !

```
sudo apt-get update
sudo apt-get upgrade
sudo apt-get install pyro clustalw python-biopython mysql-server python-mysqldb python-pygo
sudo wget http://phamerator.csm.jmu.edu/files/phamerator-1.1.tar.gz
tar -xvf phamerator-1.1.tar.gz
sudo apt-get remove python-biopython
wget http://biopython.org/DIST/biopython-1.50.tar.gz
tar -xzvf biopython-1.50.tar.gz
cd biopython-1.50/
sudo apt-get install gcc
sudo apt-get install python-dev
sudo python setup.py install
sudo apt-get install python-glade2
sudo apt-get install easy_install
sudo apt-get install python-setuptools
sudo easy_install weblogo
--> HAVE TO ???? Tools/gtk/install-dependencies
sudo apt-get install python-webkit
sudo apt-get install python-webkit-dev
cd ../phamerator-1.1/phamerator
sudo ./Phamerator
```

You will be prompt to authorized Phamerator to download BLAST. In addition you will be ask to give your sql password to update the database.

1.3 PhamDB

<https://github.com/jglamine/phamdb/wiki/Using-PhamDB>

Software to build db usefable with phamerator.

1.3.1 Pre-requis

You need Docker to install this software. Follow the installation from this link: <https://docs.docker.com/engine/installation/>

1.3.2 Utilisation