*Florida International University*

*School of Computing and Information Sciences*

CIS 4911 - Senior Capstone Project

Software Engineering Focus

Installation

Addigy

IT Intelligence At Scale

**Team Members**

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**Server Installation**

To install the server follow the next series of steps:

1. sudo apt-get -y update && sudo apt-get -y upgrade && echo -e "\a\a\a\a\a"
2. sudo apt-get -y install python-pip python-dev build-essential && echo -e "\a\a\a\a\a"
3. sudo pip install --upgrade pip
4. sudo pip install virtualenvwrapper
5. echo -e "export WORKON\_HOME=$HOME/.virtualenvs\nsource /usr/local/bin/virtualenvwrapper.sh" > ~/.bash\_profile
6. source ~/.bash\_profile
7. mkvirtualenv <project name> --no-site-packages -p /usr/bin/python3.4
8. workon <project name>
9. pip install django djangorestframework markdown django-filter pymongo
10. sudo apt-get -y install apache2 git python-software-properties software-properties-common
11. sudo apt-get -y install apache2-dev python3.4-dev
12. sudo apt-get -y install apache2 apache2-data apache2-bin apache2-mpm-prefork apache2-utils libexpat1
13. sudo nano /etc/apache2/sites-available/test.name.com.conf
14. WSGIPythonPath /var/www/<project name>/macmanage:/var/www/<project name>/env/lib/python3.3:/var/www/<projectname>/env/lib/python3.3/site-packages:/home/ubuntu/.virtualenvs/<project name>/lib/python3.4/site-packages/

<VirtualHost \*:80>

ServerName test.name.com

ServerAlias test.name.com

WSGIScriptAlias / /var/<project name>/macmanage/macmanage.wsgi

Alias /assets/ /var/www/<project name>/macmanage/assets/

<Directory /var/www/<project name>/macmanage/assets>

Order deny,allow

Allow from all

</Directory>

</VirtualHost>

1. sudo a2dissite 000-default
2. sudo a2ensite test.name.com
3. sudo service apache2 reload
4. git clone <repo>
5. sudo mkdir /var/www/<project name>
6. sudo mkdir /var/www/<project name>/macmanage
7. sudo cp -r <project name>/\* /var/www/test.name.com/macmanage/
8. wget <https://github.com/GrahamDumpleton/mod_wsgi/archive/4.4.3.tar.gz>
9. tar -zxvf 4.4.3.tar.gz
10. cd mod\_wsgi-4.4.3
11. ./configure --with-python=/usr/bin/python3.4 && make
12. sudo make install
13. echo "LoadModule wsgi\_module /usr/lib/apache2/modules/mod\_wsgi.so" > /etc/apache2/mods-available/wsgi.load
14. ## after installing
15. sudo a2enmod wsgi
16. sudo service apache2 restart

**Client Software Package Generation**

The software that runs on a client system to collect and report information about that system to the server is packaged in a Java jar file. The following procedure will describe how to build this collector jar file locally.

*Prerequisite: Maven 3.3.0 is installed on the system building the software package.*

1. Navigate to the root directory of the project repository.
   1. cd /<path-to-repository>/Addigy3
2. Navigate into the Java project folder.
   1. cd AdgCollector
3. Create the jar file using the maven tool.
   1. mvn package

**Cronjob Installation**

The client data collector is meant to run at regular intervals on the client system, providing a historical record of the client system’s hardware and usage. The following procedure is used to register this client software with the cronjob process.

*Prerequisite: If the client software jar has not created, refer to the section “Client Software Package Generation”.*

1. If the “addigy” directory does not exist in the home directory of the user, create it.
   1. mkdir ~/addigy
2. Copy the client software jar file into the “addigy” directory.
   1. cp /<path-to-repository>/Addigy3/AdgCollector/target/adgcollector-1.0-SNAPSHOT-jar-with-dependencies.jar ~/addigy/
3. Navigate to the “scripts” directory in the Addigy repository.
   1. cd /<path-to-repository>/Addigy3/scripts
4. Run the “installAddigyCron.sh” script to register the client jar with the cronjob scheduler.
   1. ./installAddigyCron.sh

**MongoDB Installation**

### Install the MongoDB packages

sudo apt-get install -y mongodb-org

### Start MongoDB.

sudo service mongod start

* Restore MongoDB database dump

mongorestore dump-2013-10-25/

link to mongo installation guide: <http://docs.mongodb.org/manual/tutorial/install-mongodb-on-ubuntu/>