WIZ – INSTALLATION

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Introduction

The WIZ application uses the following software packages:

- postgres

- postgis

- php

- java

- tomcat

- geoserver

- httpd-apache

This guide refers to the first installation of WIZ in a Debian system.

1. POSTGRES

Install postgres with the following command:

```
apt-get install postgresql
```

Set the password for the postgres user

```
sudo -u postgres psql postgres

\password postgres
```

As an option, a postgres administration tool can be installed

```
apt-get install pgadmin3
```

Modify the files `/etc/postgresql/9.1/main/postgresql.conf` e
`/etc/postgresql/9.1/main/pg_hba.conf` to allow the access on a different machine from localhost.

2. POSTGIS

Install postgis with the following command:

```
apt-get install postgis

apt-get install postgresql-9.1-postgis

#creo un template postgis

sudo su postgres

createdb postgistemplate

createlang plpgsql postgistemplate

psql -d postgistemplate -f /usr/share/postgresql/9.1/contrib/postgis-1.5/postgis.sql

psql -d postgistemplate -f /usr/share/postgresql/9.1/contrib/postgis-1.5/spatial_ref_sys.sql

psql -d postgistemplate -f /usr/share/postgresql/9.1/contrib/postgis_comments.sql
```

3. JAVA

Modify the file `/etc/apt/sources.list` by adding the line

```
deb http://www.duinsoft.nl/pkg debs all
```

Import the gpg key

```
apt-key adv --keyserver keys.gnupg.net --recv-keys 5CB26B26
```

Install java

```
sudo apt-get update

sudo apt-get install update-sun-jre
```

4. TOMCAT

Install Tomcat

```
apt-get install tomcat7
```

Change the tomcat port (8081)

```
vi /etc/tomcat7/server.xml
```

Restart tomcat to accept changes

```
/etc/init.d/tomcat7 restart
```

5. GEOSERVER

Go to the tomcat webapps folder and download the geoserver war

```
cd /var/lib/tomcat7/webapps/

wget http://downloads.sourceforge.net/geoserver/geoserver-2.1.3-war.zip
```

Decompress the archive and re-start tomcat

```
unzip geoserver-2.1.3-war.zip

/etc/init.d/tomcat7 restart
```

6. APACHE

Install the apache webserver following the instructions on the website:

```
http://httpd.apache.org/docs/2.4/install.html
```

Enable mod_proxy for geoserver:

```
sudo a2enmod proxy

sudo a2enmod proxy_http
```

Add in `site-available/default` the lines: (replace [PORT] with the desired port)

```
ProxyPass /geoserver http://localhost:[PORT]/geoserver

ProxyPassReverse /geoserver http://localhost:[PORT]/geoserver
```

Modify `mods-available/proxy.conf` as follows: (replace [SUBNET] with the ip range desired)

```
ProxyRequests On

<Proxy *>

        AddDefaultCharset off

        Order deny,allow

        Deny from all
```

```
        Allow from [SUBNET]

</Proxy>
```

7. PHP

Install the necessary package with the command:

```
apt-get install php5 php5-cli libapache2-mod-php5 php5-dev php5-gd

apt-get install php5-curl php5-pgsql
```

Add extension DBASE for php:

```
wget http://pecl.php.net/get/dbase-5.0.1.tgz

tar -xzf dbase-5.0.1.tgz

cd dbase-5.0.1

phpize

./configure

make

make install
```

Activate the extensions dbase and curl by adding to the `php.ini` file the following lines: (ex. `/etc/php5/apache2/php.ini`)

```
extension=dbase.so

extension=curl.so
```

In `php.ini` modify the parameteres with the following:

```
post_max_size = 10M

upload_max_filesize = 20M

date.timezone = "Europe/Rome"

max_execution_time = 60
```

8. YII

Download and install the Yii framework following the instructions on the developers site:

```
http://www.yiiframework.com/doc/guide/1.1/en/quickstart.installation
```

Give writing permissions to the `yii` folder in the Apache path

```
chmod -R 755 yii/
```

9. WIZ

Setup of Folder structure

Decompress the archive in the folder `acque`. The folder `acque` has to be placed at the same level as the folder yii:

```
/..

/yii
```

```
/acque
```

Inside `acque`, give writing permissions to the apache user to the following folders:

```
/assets

/protected/runtime

/epanet_downloads

/epanet_uploads

/uploads
```

Setup of the database

Create a spatial database `acqueDB`

Populate the database tables

```
psql -d acqueDB < create_acque.sql

# se non si hanno i permessi:

# sudo -u postgres psql -d acqueDB < create_acque.sql
```

Setup of Geoserver

Replace the folder `data` of geoserver with the one provided with the CD.

```
cp –R data/ /var/lib/tomcat7/webapps/geoserver/
```