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Linux/Ubuntu

Installing and Configuring Multiple Tomcat Server Instances In Ubuntu Server.

July 17, 2014 Madura Dissanayake

Hello all, today I 'm taking you through the steps to configure multiple server instances of Apache Tomcat server in a single machine. In this case I have taken Ubuntu server 12.04 version to be demonstrated. So first of all let's look at the what are the steps for the server.

1. Availability of JDK and JRE.
2. Installing the tomcat server.
3. Create multiple instances.

In here let's check whether that your server has the JDK and JRE.

$ sudo java -version

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```
$sudo java -version
```

> java version "1.6.0_31"
> OpenJDK Runtime Environment (IcedTea6 1.13.3) (6b31-1.13.3-1ubuntu1~0.12.04.2)
> OpenJDK 64-Bit Server VM (build 23.25-b01, mixed mode)

If u r getting the response like this you have already installed the JDK and JRE otherwise you have to install JDK and JRE. following commands will help you to install the latest version of JDK and JRE.

```
$ sudo apt-get update
$ sudo apt-get install default-jre
$ sudo apt-get install default-jdk
```

After installation is completed, u can check the JDK and JRE has been installed or not using java version command.

```
$ sudo java -version
```

Now, we have to set the JAVA_HOME variable path to the relevant directory, do the followings.

```
$ sudo nano ~/.bashrc
```

Then add the following line and reboot the system.

```
export JAVA_HOME=/usr/lib/jvm/default-java
```

After verified the JDK and JRE is installed correctly, let's move to the next step. In here let's install the apache tomcat with tomcat admin.

```
$ sudo apt-get install tomcat7 tomcat7-admin
```

Now you can test the tomcat is working using http://myserver.com:8080 ,

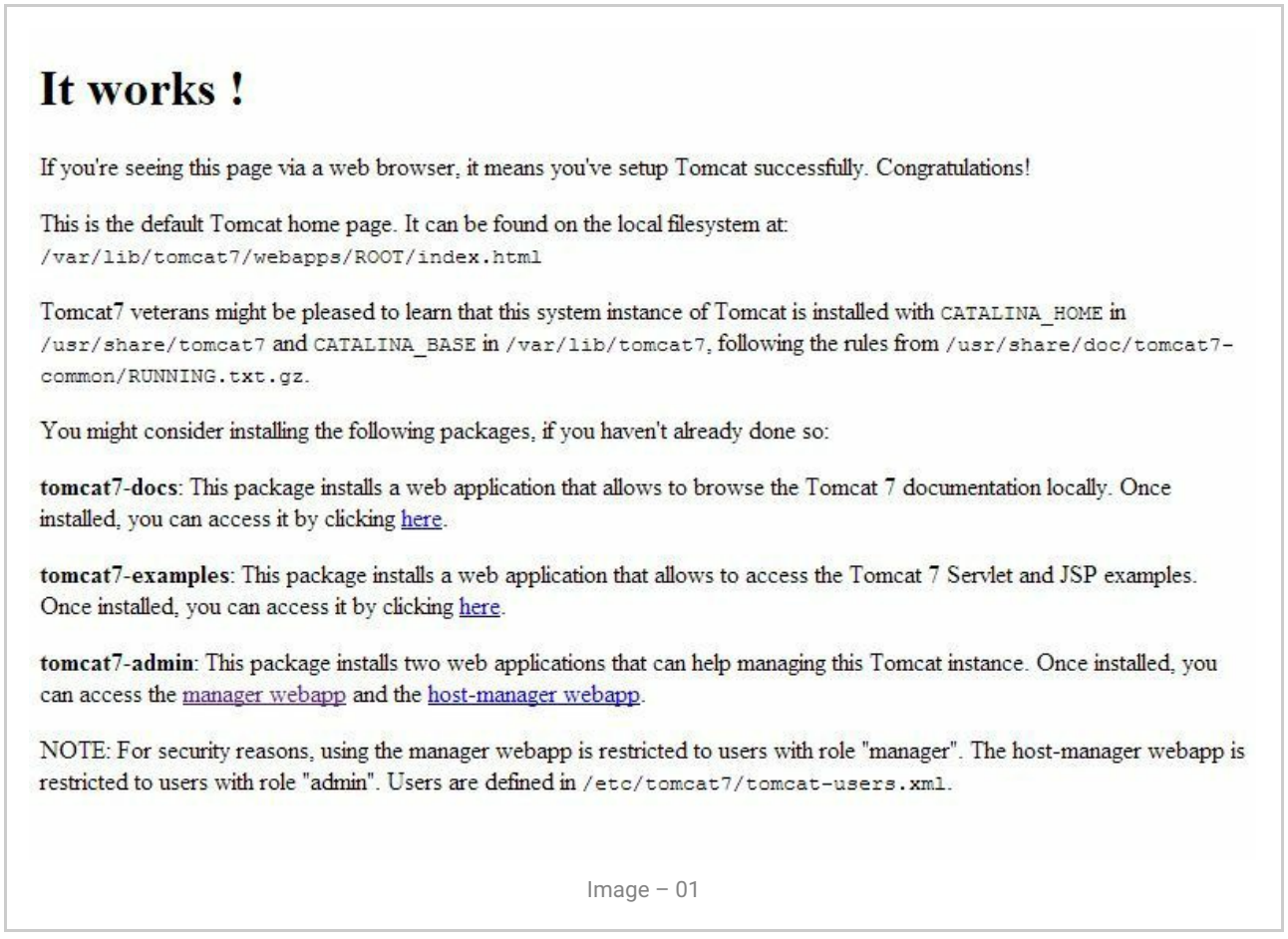

Image – 01

Now let's create multiple instances on Tomcat server called tomcat7-a, tomcat7-b, tomcat7-c. follow the commndes given below.

```
$ cd /var/lib/
$ sudo mkdir tomcat7-a
$ sudo mkdir tomcat7-b
$ sudo mkdir tomcat7-c

$ cd /var/lib/tomcat7-a
$ sudo mkdir conf temp webapps work logs
$ cd /var/lib/tomcat7-b
$ sudo mkdir conf temp webapps work logs
$ cd /var/lib/tomcat7-c

$ sudo mkdir conf temp webapps work logs
$ cd ..

$ sudo chown -R tomcat7:tomcat7 tomcat7-a tomcat7-b tomcat7-c
```

Now we have created the directories of new instances, in next step we need link main configurations files which are available in main tomcat7 server instance.

```
$ sudo ln- s /var/lib/tomcat7/conf/catalina.properties /var/lib/tomcat7-a/conf
$ sudo ln- s /var/lib/tomcat7/conf/catalina.properties /var/lib/tomcat7-b/conf
$ sudo ln- s /var/lib/tomcat7/conf/catalina.properties /var/lib/tomcat7-c/conf

$ sudo ln- s /var/lib/tomcat7/conf/web.xml /var/lib/tomcat7-a/conf
$ sudo ln- s /var/lib/tomcat7/conf/ web.xml /var/lib/tomcat7-b/conf
$ sudo ln- s /var/lib/tomcat7/conf/ web.xml /var/lib/tomcat7-c/conf

$ sudo ln- s /var/lib/tomcat7/conf/policy.d/ /var/lib/tomcat7-a/conf
$ sudo ln- s /var/lib/tomcat7/conf/policy.d/ /var/lib/tomcat7-b/conf
$ sudo ln- s /var/lib/tomcat7/conf/policy.d/ /var/lib/tomcat7-c/conf
```

Now the necessary files have been copied. So in next step let’s configure the server port, shutdown port and the connector port on server.xml file.

```
$ sudo cp /var/lib/tomcat7/conf/server.xml /var/lib/tomcat7-a/conf/
 $ sudo cp /var/lib/tomcat7/conf/server.xml /var/lib/tomcat7-b/conf/
 $ sudo cp /var/lib/tomcat7/conf/server.xml /var/lib/tomcat7-c/conf/
```

Open the server.xml files separatly and chenge the above mentioned port numbers.

<Server port=”8005" shutdown=”SHUTDOWN”>

.

.

.

<Connector port=”8080" protocol=”HTTP/1.1"

connectionTimeout=”20000"

URIEncoding=”UTF-8"

redirectPort=”8443" />

.

.

.

<Connector port=”8009" protocol=”AJP/1.3" redirectPort=”8443" />

.

.

After setting up the port number on server.xml file , you have to change the configuration on the service file which is in “/etc/init.d/” . In here copy the main tomcat7 service file and make three copies and change the appropriate values.

```
$ cd /etc/init.d/
 $ sudo cp tomcat7 tomcat7-a
 $ sudo cp tomcat7 tomcat7-b
 $ sudo cp tomcat7 tomcat7-c
```

Then open those files and change the necessary configurations sample shown given below.

DESC=”Tomcat servlet engine”
CATALINA_BASE=/var/lib/$NAME
CATALINA_PID=”/var/run/$NAME.pid”

After configurations are completed save the files and start the tomcat instances.

```
 $ sudo service tomcat7-a start
 $ sudo service tomcat7-b start
 $ sudo service tomcat7-c start
```

If services are not started properly, please make sure the configuration file changes are correct. The set those main tomcat instance services to the startup services.

```
 $ sudo update -rc.d tomcat7-a defaults
 $ sudo update -rc.d tomcat7-b defaults
 $ sudo update -rc.d tomcat7-c defaults
```

Now try the instances using the appropriate URLs with port numbers. If you have set the port numbers like 8181, 8282, 8383, use the following URLs.

http://localhost:8181 ,http://localhost:8282, http://localhost:8383

Thank You.

Linux/Ubuntu

Odoo 8 | Installing And Configuring in Ubuntu Server.

July 23, 2014 Madura Dissanayake

Hello All, Here, I'm going to show you how to install new version of "Odoo" ERP system on Ubuntu server. New version is "Odoo v8" , which contains more reliable features. Now it has been very easy to install and configure. Before installing the Odoo v8 let's keep a clean installation on Ubuntu latest server version. The Ubuntu latest server version is Ubuntu Server 14.04. In here I have a clean Installation of Ubuntu Server 14.04.

Then let's start the steps to download, install and configure Odoo v8 in the new Ubuntu server.

Follow these steps.

```
$ wget https://raw.githubusercontent.com/lukebranch/openerp-install-
scripts/master/odoo-saas4/ubuntu-14-04/odoo_install.sh
$ sudo sh odoo_install.sh
```

While the script is running if you are getting errors like in the image-01.

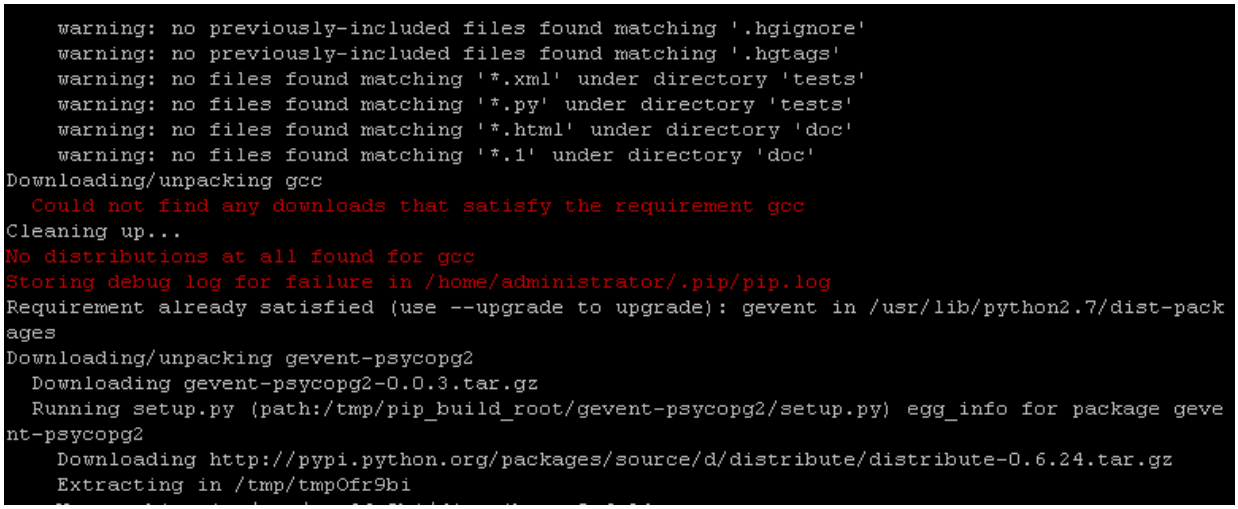

Image-01

You can manually download and install the required per-requisites. In here I have shown how to install gcc and python with modules.

```
$ sudo apt-get install gcc
$ sudo apt-get install python-dateutil python-docutils python-feedparser python-gdata
python-jinja2 python-ldap python-libxslt1 python-lxml python-mako python-mock python-
openid python-psycopg2 python-psutil python-pybabel python-pychart python-pydot python-
pyparsing python-reportlab python-simplejson python-tz python-unittest2 python-
vatnumber python-vobject python-webdav python-werkzeug python-xlwt python-yaml python-
zsi
```

In here all the per-requisites are downloaded and installed and you will be asked to reboot the machine. After rebooting the machine, try to load the the Odoo home page using http://youripaddress.com:8072 , then you will be appeared page like in image-02.

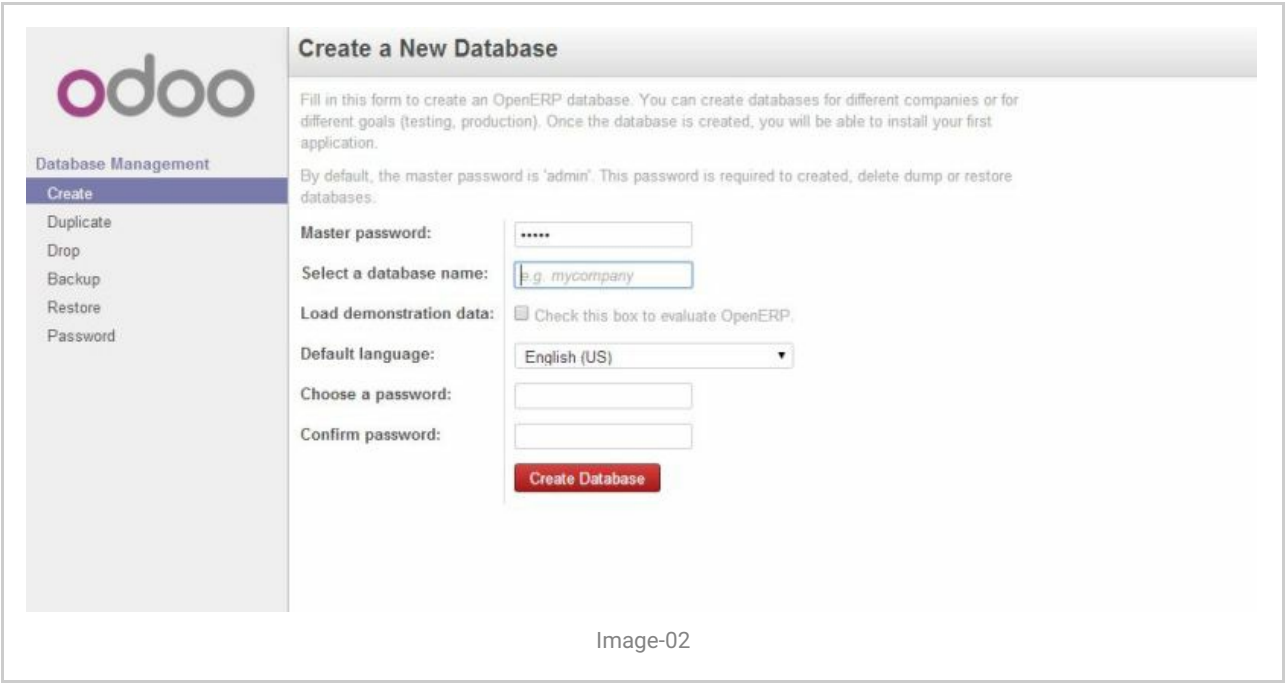

Image-02

Then fill the appropriate fields and create whatever the databases as you wish. After that you can logging to the account that you have already created.

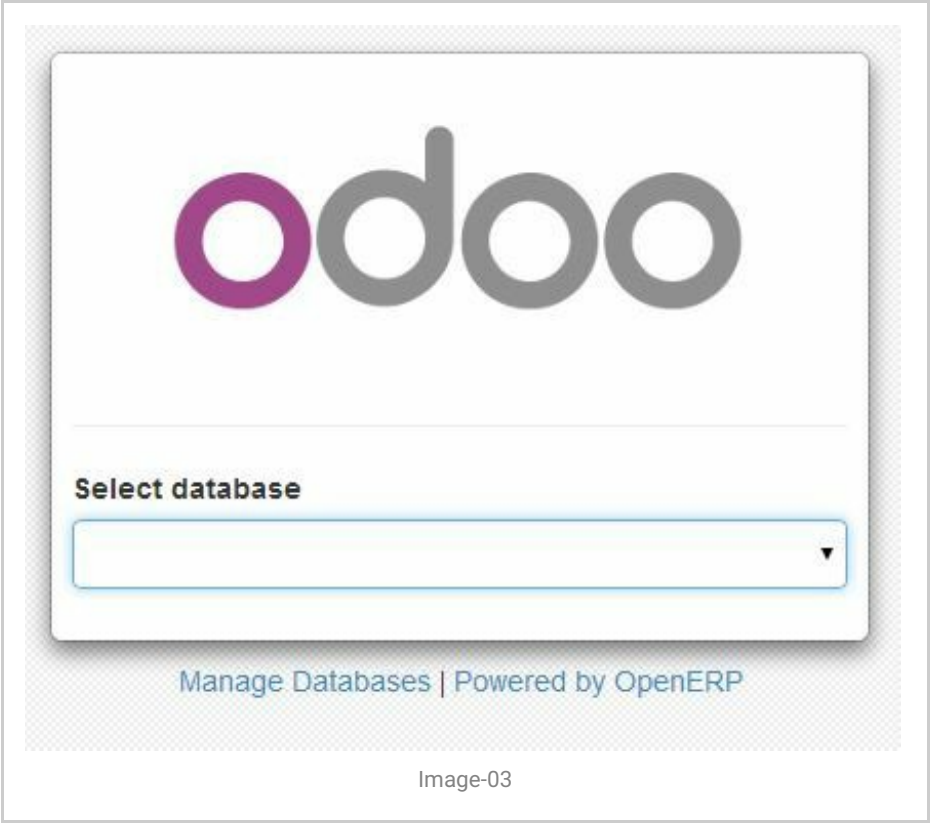

Image-03

As in the image-02 you can select the database and then enter the logging details into relevant fields as shown in the Image-04.

Image-04

Finally you will see the home page of the OpenERP.

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