This manual gives the complete instruction for setting up a new production environment using Ubuntu 14.04 server.

**Installing Apache2 On Ubuntu .**

* sudo apt-get update
* sudo apt-get install apache2

To verify type [http://localhost](http://localhost/) on Browser.

Source https://help.ubuntu.com/lts/serverguide/httpd.html

To Remove apache2 completely

* sudo apt-get purge apache2 apache2-utils apache2.2-bin apache2-common
* sudo apt-get autoremove –purge
* whereis apache2

**Install MYSQL DataBase**

* sudo apt-get install mysql-server php5-mysql
* sudo apt-get install mysql-server
* sudo apt-get install mysql-client
* sudo apt-get install libmysql-java #jdbc (not required )

During the installation, your server will ask you to select and confirm a password for the MySQL "root" user. This is an administrative account in MySQL that has increased privileges.

First, we need to tell MySQL to create its database directory structure where it will store its information. You can do this by typing:

* sudo mysql\_install\_db

Afterwards, we want to run a simple security script that will remove some dangerous defaults and lock down access to our database system a little bit. Start the interactive script by running:

* sudo mysql\_secure\_installation

You will be asked to enter the password you set for the MySQL root account. Next, it will ask you if you want to change that password. If you are happy with your current password, type "n" for "no" at the prompt.

For the rest of the questions, you should simply hit the "ENTER" key through each prompt to accept the default values. This will remove some sample users and databases, disable remote root logins, and load these new rules so that MySQL immediately respects the changes we have made.

At this point, your database system is now set up and we can move on.

**Installing mod\_jk**

* sudo apt-get install libapache2-mod-jk

**To install Perl modules;**

* sudo apt-get install perl build-essential curl
* sudo wget -O - http://cpanmin.us | perl - --sudo --self-upgrade
* cpanm --sudo install www::Machanize

[NOTE : To install perldoc package use sudo apt-get install perl-doc ]

**To install R :**

Update the pakage using apt-get update then run the below command

* sudo apt-get install r-base

**To Install Java Jdk**

The manual way

* [Download](http://www.oracle.com/technetwork/java/javase/downloads/index.html) the 32-bit or 64-bit Linux "compressed binary file" - it has a ".tar.gz" file extension.

Uncompress it

**[NOTE** : tar xvf jdk-8-linux-i586.tar.gz (32-bit)

* tar xvf jdk-8-linux-x64.tar.gz (64-bit) **]**

* The JDK package is extracted into ./jdk1.6.0\_27 directory.

Now move the JDK directory to /usr/jvm

* sudo mkdir -p /usr/jvm
* sudo mv ./jdk1.6.0\_27 /usr/jvm/
* sudo update-alternatives --install "/usr/bin/java" "java" "/usr//java/jdk1.6.0\_27/bin/java" 1
* sudo update-alternatives --install "/usr/bin/javac" "javac" "/usr/jvm/jdk1.6.0\_27/bin/javac" 1
* sudo update-alternatives --install "/usr/bin/javaws" "javaws" "/usr/jvm/jdk1.6.0\_27/bin/javaws" 1

Now check

* java -version

Source http://askubuntu.com/questions/56104/how-can-i-install-sun-oracles-proprietary-java-jdk-6-7-8-or-jre

**To Install Tomcat**

Get the required binary file from the bellow link

* <http://archive.apache.org/dist/tomcat/>
* tar xvzf apache-tomcat-6.0.24.tar.gz
* mv apache-tomcat-6.0.24 /usr/share/

Now open /etc/bash.bashrc , add the below lines

* sudo vim /etc/bash.bashrc
* export JAVA\_HOME=/usr/jvm/jdk1.6.0\_27
* export CATALINA\_HOME=/usr/share/apache-tomcat-6.0.24

Now run

* $CATALINA\_HOME/bin/startup.sh

source http://www.liquidweb.com/kb/how-to-install-apache-tomcat-7-on-ubuntu-12-04/

**TO Install JDBC**

* sudo apt-get install libmysql-java

To test the connection, create database events and the table student with fname,lname,email as a column.

Then run DBDemo java file and check the table for new entry.

Source <https://help.ubuntu.com/community/JDBCAndMySQL>

**Apache2,Tomacat and mod\_jk configuration**

* Create semi links of **jk.conf** and **jk.load** of mods-available in /etc/apache2/mods-enabled
* add JKMount /examples/\* ajp13\_worker in **apache2.conf(** inside </IfModule>) file and in **/apache2/sites-enabled/000-default.conf** file (Just below the Document Root /var/www/html line)
* In **worker.properties** ,the file under **/etc/libapache2-mod-jk** , look for the line

workers.tomcat\_home=/usr/share/tomcat

workers.java\_home=/usr/lib/jvm/default-java

* change the path as suit for your environment.

Now test <http://local_ip/examples/>

**User for tomcat** and apache

Creating a user without home dir and disabling from shell login .

* sudo useradd -r -s /bin/false apache

Creating a user with home directory and shell access.

* Sudo useradd -m tomcat

For ssh access

* cd /etc/ssh
* vim sshd\_config

Look for AllowUsers add tomcat

To list all user

* cut -d: -f1 /etc/passwd

To add an existing user to an existing group you can use the same command:

* sudo adduser tomcat kubera

make the user tomcat as a owner of all tomcat relate file and the user apache as a owner of all apache related files ,similarly for mysql

* chown -R tomcat:kubera /etc/apache-tomcat\* #R for recursive
* chmod -R 755 /etc/apache-tomcat\*
* chown -R apache:kubera /etc/apache2
* chmod -R 755 /etc/apche2
* same for mysql
* sudo adduser <username> <groupname>

Source <http://askubuntu.com/questions/29359/how-to-add-user-without-home>

<https://help.ubuntu.com/community/AddUsersHowto>

<https://help.ubuntu.com/community/AddUsersHowto>

https://help.ubuntu.com/10.04/serverguide/user-management.html

**Configuration**

* cd usr/share/apache-tomcat-6.0.0\_27/logs
* sudo cp -R \* /perfios/logs/tomcat-logs
* rm -r logs
* sudo ln -s /perfios/logs/tomcat-logs logs

same for conf /webapps dir

J**oomla**

just copy and paste the jommla.conf to /perfios/conf/

**MYSQL :**

Export the database: (run in mongoose)

* mysqldump -u <username> -p<password> <data\_base\_name> > file\_name.sql.

To import the database: (in civet)

* create database <data\_base\_name>
* mysql -u <username> -p<password> -D <data\_base\_name> < file\_name.sqlnder

In civet -/home/vinod/sql

under sql folder look for cleanup.sh , run the script, it will update all procedures .

* ./cleanup.sh -stprocs

**File**s N**eed** T**o** U**pdate**

The files that need to update are as follows.

* cd /usr/share/apache-tomcat-6.0.24/webapps/KuberaVault/WEB-INF/classes

Look for kubera.properties

change mysql password and create a necessary folders , change the configuration according to your host .

* cd /perfios/conf/tomcat-conf/Catalina/localhost ---paste KuberaVault.xml

Change my sql password

* cd /usr/share/apache-tomcat-6.0.24/conf

Edit web.xml (comment out some lines ) as in mongoose.

Make sure the presence of mysql-connector-java-5.1.13-bin.jar under /usr/share/apache-tomcat-6.0.24/lib

Copy the userdoc.copy files from mongoose and paste it in respective page.(for login ,make sure you a account before login )

[NOTE : log file are all very important to rectify the errors, frequently monitor if anything doesn't works as expected ]