

Installing Sales Portal on Ubuntu 6.06 LTS Linux

Disclaimer: This document is a reference for the Linux Server installation. It is based on the reference documentation that our technicians use.

This is for installing Ubuntu, major server components(Sun Java, PostgreSQL, Tomcat, and Apache), and Sales Portal. This is for a dedicated server that is going to be hooked up to the Internet for multiple people to access.

Note: You will need to have the PC/server physically hooked up for Internet access, the Randr Ubuntu Server Components (available at www.2d-salesportal.com), and a Static IP Address before installation.

Tip: You can copy and paste the Linux commands into the terminal for easier installation.

Step 1: Installing Ubuntu

1. Download Ubuntu 6.06 LTS and burn to CD. These directions should work with other versions of Ubuntu, but we have not tested them. We have found this version installs easily and supports most hardware.
www.ubuntu.com.
2. Boot from CD into Ubuntu Live Enviroment.
3. Click on the Install icon on the desktop.
4. Proceed through install.

Step 2: Configure Ubuntu

1. Log into Ubuntu
2. Click **Applications > Accessories > Terminal**
3. Enter the following on the command prompt and press Enter:

```
sudo passwd root
```

4. Enter a new password for the root user
Note:Make this password strong with a mix of uppercase letters, lowercase letters, and numbers. Remember this password you may be prompted for it running commands later in these instructions.

Step 3: Updating Ubuntu and Configuring Package Repositories

1. *Make sure you have a working network connection* click **Applications > Accessories > Terminal**
2. Enter the following on the command prompt and press Enter:

```
sudo gedit /etc/apt/sources.list
```

Installing Sales Portal on Ubuntu 6.06 LTS Linux

Make the file look like this:

```
#
# deb cdrom:[Ubuntu-Server 6.06 _Dapper Drake_ - Release i386 (20060531)]/
dapper main restricted

#deb cdrom:[Ubuntu-Server 6.06 _Dapper Drake_ - Release i386 (20060531)]/
dapper main restricted

deb http://de.archive.ubuntu.com/ubuntu/ dapper main restricted
deb-src http://de.archive.ubuntu.com/ubuntu/ dapper main restricted

## Major bug fix updates produced after the final release of the
## distribution.
deb http://de.archive.ubuntu.com/ubuntu/ dapper-updates main restricted
deb-src http://de.archive.ubuntu.com/ubuntu/ dapper-updates main restricted

## Uncomment the following two lines to add software from the 'universe'
## repository.
## N.B. software from this repository is ENTIRELY UNSUPPORTED by the Ubuntu
## team, and may not be under a free licence. Please satisfy yourself as to
## your rights to use the software. Also, please note that software in
## universe WILL NOT receive any review or updates from the Ubuntu security
## team.
deb http://de.archive.ubuntu.com/ubuntu/ dapper universe
deb-src http://de.archive.ubuntu.com/ubuntu/ dapper universe

## Uncomment the following two lines to add software from the 'backports'
## repository.
## N.B. software from this repository may not have been tested as
## extensively as that contained in the main release, although it includes
## newer versions of some applications which may provide useful features.
## Also, please note that software in backports WILL NOT receive any review
## or updates from the Ubuntu security team.
# deb http://de.archive.ubuntu.com/ubuntu/ dapper-backports main restricted
universe multiverse
# deb-src http://de.archive.ubuntu.com/ubuntu/ dapper-backports main
restricted universe multiverse

deb http://security.ubuntu.com/ubuntu dapper-security main restricted
deb-src http://security.ubuntu.com/ubuntu dapper-security main restricted
deb http://security.ubuntu.com/ubuntu dapper-security universe
deb-src http://security.ubuntu.com/ubuntu dapper-security univers
```

Save the File

Depending on your network speed, 2-7 can take a little while

2. Enter the following on the command prompt and press Enter:

```
sudo apt-get update
```

Installing Sales Portal on Ubuntu 6.06 LTS Linux

3. Enter the following on the command prompt and press Enter:

```
sudo apt-get upgrade
```

4. Enter the following on the command prompt and press Enter:

```
sudo apt-get install build-essential
```

5. Restart Ubuntu.
6. Log back in.
7. Then choose **System > Administration > Update Manager**.
8. Enter the same password you created for your account.
9. Once the Software Update window appears click on Check, then click on Install Updates. This will complete the update of your system to the most current version of the packages in this release.

Step 4: Install Webmin

1. Copy the **webmin_1.370_all.deb** file from the Server Components folder to the desktop.
2. Double-click **webmin_1.370_all.deb**
3. Follow the instructions on the screen.
4. Once the installation is finished open a web browser and browser to <https://localhost:10000>
5. Log in with the user account that you created on the Ubuntu installation.

Step 5: Set Up the Network

1. Open a web browser.
2. Browser to <https://localhost:10000>
3. Log in with the user account that you created on the Ubuntu installation.
4. Click **Networking > Network Configuration > Network Interfaces**
5. Under “Interfaces Active at Boot Time”, click **eth0**
6. Change the **IP Address** to Static and enter the IP address you want for the server (i.e. 192.168.0.100)
7. Enter the **Netmask** (i.e. 255.255.255.0)
8. Enter the **Broadcast**, this is generally the final .255 address in your domain (i.e 192.168.0.255)
9. Make sure “Active at Boot?” is set to yes.
10. Click **Save and Apply**
11. Make sure the “eth0” on the top and bottom of the Network Interface screen match
12. Click **Module Index** link at the top of the screen
13. Click **Routing and Gateways**
14. Under **Routing configuration activated at boot time**, click the radial button next to “Gateway”
15. Enter the Gateway of your network in the box.
16. Make sure that devise is “eth0”
17. Click **Save**
18. Click **Module Index** link at the top of the screen
19. Click **Hostname and DNS Clients**

Installing Sales Portal on Ubuntu 6.06 LTS Linux

20. In the **Hostname** box enter the hostname for you server (i.e. www.yoururl.com or ebiz.yoururl.com, etc)
21. Click **Save**
22. Click **Module Index** link at the top of the screen
23. Click **Host Addresses**
24. Check to make sure the the hostname you entered above has the same IP address as the server
25. If it does click the **IP address** and enter the IP address of the server and click **Save**
26. Click **Module Index** link at the top of the screen
27. Click the **Apply Configuration** button

Step 6: Configure the Synaptic Package Manager

1. Choose **System > Administration > Synaptic Package Manager**.
2. In the Synaptic Package Manager choose **Settings > Repositories**.
3. Scroll down the list and select Ubuntu 6.06 LTS binaries. Then click on **Edit**.
4. Check all components(Officially supported, Restricted Copyright, Community Maintained, and Non-free). Check Ubuntu 6.06 LTS Backports (binaries). Click **OK**.
5. Close the Preference Window.
6. Click the **Reload Icon** at top of Synaptic. Most of the software we load in the next three steps will be through the Synaptic Package Manager.

Step 7: Installing PostgreSQL

1. In Synaptic, search for postgresql. Check and mark, **postgresql-8.1** and **postgres-dev** for installation(accept dependencies).
2. In Synaptic, search for pgadmin3. Check **pgadmin3** and mark for installation(accept dependencies).
3. Click on the **Apply** button at the top.
4. Click **Applications > Accessories > Terminal**.
5. Enter the following commands on the command prompt and press Enter after each one (replace *password* with your password):

```
sudo su postgres -c psql template1

ALTER USER postgres WITH PASSWORD '*password*';

\q
```

* Note : template1 as in template one

Step 8: Installing Sun Java

1. In Synaptic, search for sun-java5-jdk. Check **sun-java5-jdk** and mark for installation(accept dependencies).
2. Click on the **Apply Icon** at the top of Synaptic.
3. **Agree to Terms** and click **Forward**.
4. Click **Applications > Accessories > Terminal**.

Installing Sales Portal on Ubuntu 6.06 LTS Linux

5. Enter the following on the command prompt and press Enter:

```
sudo update-alternatives --config java
```

6. Select the option with java 1.5.0 and press Enter

Step 9: Installing Tomcat

1. In Synaptic, search for Tomcat5. Check and mark **tomcat5**, **tomcat5-admin**, and **tomcat5-webapps** for installation(accept dependencies).
2. Click on the **Apply** button at the top of Synaptic.
3. Click **Applications > Accessories > Terminal**.
4. Enter the following on the command prompt and press Enter:

```
sudo gedit /etc/default/tomcat5
```

Change the following lines, be sure to remove the # in the front:

```
JAVA_HOME=/usr/lib/jvm/java-1.5.0-sun  
TOMCAT5_SECURITY=no
```

Save the file.

5. Enter the following on the command prompt and press Enter:

```
sudo gedit /var/lib/tomcat5/conf/tomcat-users.xml
```

Change the file to look like this:

```
<?xml version='1.0' encoding='utf-8'?>  
<tomcat-users>  
  <role rolename="tomcat"/>  
  <role rolename="role1"/>  
  <role rolename="manager"/>  
  <role rolename="admin"/>  
  <user username="tomcat" password="tomcat"  
roles="tomcat,admin,manager"/>  
  <user username="role1" password="tomcat" roles="role1"/>  
  <user username="both" password="tomcat" roles="tomcat,role1"/>  
</tomcat-users>
```

Save the file.

6. Enter the following command on the command prompt and press Enter

```
sudo /etc/init.d/tomcat5 start
```

7. Open a browser and go to <http://localhost:8180> to make sure the installation is successful. You

Installing Sales Portal on Ubuntu 6.06 LTS Linux

should see a tomcat start page. *Depending on your server size, it could take Tomcat a few minute to finish starting.*

Step 10: Installing Apache and PHP

1. Click **Applications > Accessories > Terminal**.
2. Enter the following on the command prompt and press Enter:

```
sudo apt-get install apache2 apache2-common apache2-doc apache2-mpm-  
prefork apache2-utils libapr0 libexpat1 ssl-cert
```

3. Enter the following on the command prompt and press Enter:

```
sudo apt-get install autoconf automake1.4 autotools-dev libapache2-mod-  
php5 php5 php5-common php5-curl php5-dev php5-gd php-pear php5-ldap  
php5-mhash php5-mysql php5-mysqli php5-snmp php5-sqlite php5-xmllrpc  
php5-xsl php5-imap php5-mcrypt php5-pspell
```

4. Enter the following on the command prompt and press Enter:

```
sudo gedit /etc/apache2/apache2.conf
```

Make the “DirectoryIndex” line look like this:

```
DirectoryIndex index.html index.htm index.shtml index.cgi index.php  
index.php3 index.pl index.xhtml
```

Save the file.

5. Enter the following on the command prompt and press Enter:

```
sudo gedit /etc/apache2/ports.conf
```

The file should look like this:

```
Listen 80  
Listen 443
```

Save the file.

6. Copy the **workers.properties** file from the Server Components folder to **/etc/apache2**
7. Copy the **jk.load** file from the Server Components folder to **/etc/apache2/mods-available**
8. Copy the **mod_jk.so** file from the Server Components folder to **/usr/lib/apache2/modules**
9. Enter the following commands on the command prompt and press Enter after each one:

```
sudo a2enmod ssl
```

```
sudo a2enmod rewrite
```

```
sudo a2enmod suexec
```

Installing Sales Portal on Ubuntu 6.06 LTS Linux

```
sudo a2enmod include
```

```
sudo a2enmod jk
```

10. Enter the following on the command prompt and press Enter:

```
sudo /etc/init.d/apache2 force-reload
```

11. Open a browser and go to <http://localhost/jsp-examples> to make sure the installation is successful. You should see a page about JSP's.

Step 11: Installing SSH

1. Click **Applications > Accessories > Terminal**.
2. Enter the following on the command prompt and press Enter:

```
sudo apt-get install ssh openssh-server
```

Step 12: Installing Sales Portal

5. Download Sales Portal from SourceForge (<http://sourceforge.net/projects/salesportal>) or the Sales Portal Website (<http://www.2d-salesportal.com>) .
6. Rename the .war file to salesportal.war.
7. Open the browser and navigate to <http://localhost:8180>.
8. Choose Tomcat Manager and log in.
9. Under **WAR file to deploy**, browse to salesportal.war, click deploy.
10. Click on the salesportal link and you will be presented with the login screen for the application.
* When navigating to your new Sales Portal application at <http://localhost:8180/salesportal>, you will be directed through an Automated Installation Wizard for initial setup.*
11. To directly access the Sales Portal, open the browser and navigate to <http://localhost:8180/salesportal>. We recommend you bookmark this in your favorites or save this link to your desktop.

Common Commands you will need

Starting and stopping Apache

```
sudo /etc/init.d/apache2 start
```

```
sudo /etc/init.d/apache2 stop
```

Starting and stopping Tomcat

```
sudo /etc/init.d/tomcat5 start
```

```
sudo /etc/init.d/tomcat5 stop
```

Note: Best practices for restarting the application – stop Apache, stop Tomcat, wait a few minutes, start

Installing Sales Portal on Ubuntu 6.06 LTS Linux

Tomcat, wait a few minutes, start Apache.

Starting and stopping Postgress

- This is easiest done through the Webmin GUI

Troubleshooting

Fit Ubuntu desktop to your monitor:

1. Click **Applications > Accessories > Terminal**.
2. Enter the following on the command prompt and press Enter:

```
sudo dpkg-reconfigure xserver-xorg
```

3. In the window that pops up take all the defaults.
4. Restart Ubuntu

Configuring your URL to go to the Sales Portal on your server:

1. Go to www.2d-salesportal.com
2. Click on **How To's** in the menu

Configuring a paid SSL (i.e. - Verisign, etc.) in Ubuntu:

1. Go to www.2d-salesportal.com
2. Click on **How To's** in the menu

References:

PostgreSQL installation - <http://hocuspok.us/journal/postgresql-on-ubuntu-linux-how-to-updated>

PostgreSQL installation - http://weblogs.java.net/blog/cayhorstmann/archive/2006/07/installing_glas.html

Sun Java installation - http://weblogs.java.net/blog/cayhorstmann/archive/2006/07/installing_glas.html

Sun Java installation - <http://blixtra.org/blog/2006/07/14/setting-up-tomcat-5-on-ubuntu-606/>

Apache Tomcat Installation - <http://blixtra.org/blog/2006/07/14/setting-up-tomcat-5-on-ubuntu-606/>

Apache and PHP Installation - http://www.howtoforge.com/perfect_setup_ubuntu_6.06_p6