

# Installing on Reference Platforms

The reference platforms and their recommended settings are:

## Operating System: OpenSuse 11.4

- Install Standard System with Gnome

## Database: PostgreSQL 9.1

- Using Yast, install postgresql server
- Run postgresql, initialize and configure database, using following commands:

```
service postgresql start
su - postgres
createdb da
createuser sa
Superuser? yes
psql da
create language plpgsql;
\q
exit
```

- Edit configuration files *pg\_hba.conf* and *postgresql.conf*

*pg\_hba.conf* - relace authentication method 'ident same' with 'trust' for localhost

*postgresql.conf* - set parameters depending on server memory size

| Parameters/Memory           | Default | 4GB   | 8GB | 16GB |
|-----------------------------|---------|-------|-----|------|
| <b>max_connections</b>      | 100     | 200   | 400 | 1000 |
| <b>shared_buffers</b>       | 32MB    | 1GB   | 2GB | 4GB  |
| <b>work_mem</b>             | 1MB     | 512MB | 1GB | 2GB  |
| <b>maintenance_work_mem</b> | 16MB    | 512MB | 1GB | 2GB  |
| <b>effective_cache_size</b> | 64KB    | 1GB   | 3GB | 6GB  |

**\*For OpenSuse 12.1 and later**, you will need to add the following lines in */etc/sysctl.conf*

```
kernel.shmmax=17179869184    #if you want max shared_buffer size of 16GB.
kernel.shmall=4194304
```

- Reload configuration using command

```
sysctl -p /etc/sysctl.conf
```

- Restart postgresql using command

```
service postgresql restart
```

- [Click here if you'd want to set up Standby Server Replication](#)

## Container: Tomcat 6

*(\*for Tomcat 7 on OpenSuse 12 and later, see at the end of the page)*

- Using Yast, install tomcat container and webapps modules
- Create symbolic link tomcat in folder /usr using File Manager or the following command

```
ln -s /usr/share/tomcat /usr/tomcat
```

- Unzip sharedlib.zip into /usr/tomcat/lib to place additional .jar files.
- Copy da.war into folder /usr/tomcat/webapps
- Edit file /usr/tomcat/conf/server.xml to change port 8080 to 80
- Edit file /usr/tomcat/conf/tomcat6.conf to change TOMCAT\_USER from tomcat to root
- Edit file /usr/tomcat/conf/tomcat6.conf to add the following line

```
CATALINA_OPTS="-Djava.awt.headless=true -Xmx1400M"
```

Note: -Xmx (Maximum Java heap size) for a production system with 4GB of memory should be around 1400M, leaving ample room for PostgreSQL. You may need to change this for systems with higher memories.

- Copy index.html into ROOT, using command

```
cp /usr/tomcat/webapps/da/index.html /usr/tomcat/webapps/ROOT
```

- Start Tomcat using command

```
service tomcat6 start
```

**Using Yast, set up System Services(Runlevel) so that PostgreSQL and Tomcat are automatically started at boot. Reboot server to complete installation**

## Licensing

The next step is to license your server. [Click here for details of the licensing process](#)

## \*OpenSuse 12.1 and later versions with Tomcat 7

OpenSuse now uses **systemd** based service runner, instead of /etc/init.d/tomcat.

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```
ln -s /usr/share/tomcat6 /usr/tomcat
```

- Unzip sharedlib.zip into /usr/tomcat/lib to place additional .jar files.
- Copy da.war into folder /usr/tomcat/webapps

You need to make the following changes

- **/usr/tomcat/conf/server.xml** - change port 8080 to 80
- **/usr/tomcat/conf/tomcat.conf** - add the lines

```
TOMCAT_USER="root"
TOMCAT_GROUP="root"
SECURITY_MANAGER="false"
CATALINA_OPTS="-Djava.awt.headless=true -Xmx1400M" #for RAM with 4GB, more
for servers with higher RAM
```

- **/usr/lib/systemd/system/tomcat.service** - comment out user and group.
- **/usr/sbin/tomcat-sysd** - comment out the routine for checking uid=0

There is a bug in the yast in 12.3. You cannot stop automatic startup of firewall. You need to run these commands

```
systemctl status SuSEfirewall2.service
systemctl enable SuSEfirewall2.service
systemctl start SuSEfirewall2.service
systemctl stop SuSEfirewall2.service
systemctl disable SuSEfirewall2.service
```

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