

STEPS FOR SUCCESS

Nilesh Shewale

DRTC, Indian Statistical Institute, Bangalore

DSpace installation (version 1.5.2)

Prerequisite

Java Development Kit

dspace-1.5.2 (or latest version)

apache-tomcat-6.0.18 (or latest version)

apache-maven-2.1.0 (or latest version)

apache-ant-1.7.1 (or latest version)

Postgresql 8.3 (or latest version)

sendmail

1. **cd /home/dspace**

2. **dspace@localhost\$ mkdir /home/dspace/source-files**

move all dspace source files in source-files

➤ **mv /home/dspace/Desktop/files-name /home/dspace**

Now extract the source files in **/home/dspace**

3. **dspace@localhost\$ tar -zxvf /home/dspace/source-files/dspace-1.5.2-src-release.tar.gz -C /home/dspace**

4. **dspace@localhost\$ tar -zxvf /home/dspace/source-files/apache-ant-1.7.1-bin.tar.gz -C /home/dspace**

5. **dspace@localhost\$ tar -zxvf /home/dspace/source-files/apache-tomcat-6.0.18.tar.gz apache-maven-2.1.0 -C /home/dspace**

6. **dspace@localhost\$ tar -zxvf /home/dspace/source-files/apache-maven-2.1.0.tar.gz -C /home/dspace**

7. **dspace@localhost\$ tar -zxvf /home/dspace/source-files/m2.tar.gz -C /home/dspace**
(move jdk to /home/dspace)

8. **dspace@localhost\$ sudo chmod 755 jdk-6u13-linux-i586.bin**

9. **dspace@localhost\$./jdk-6u13-linux-i586.bin**

so you will get now the following directories in **/home/dspace**

```
$ ls -l
```

```
  apache-ant-1.7.1
```

```
  dspace-1.5.2-src-release
```

```
  apache-tomcat-6.0.18
```

```
  jdk1.6.0_13
```

apache-maven-2.1.0

Setting of environments variables for all of these

login as dspace user

```
#sudo su dspace
```

```
10.dspace@localhost$ sudo gedit .bashrc
```

```
or      $sudo vim .bashrc
```

[add this line in .bashrc](#)

```
JAVA_HOME=/home/dspace/jdk1.6.0_13
```

```
ANT_HOME=/home/dspace/apache-ant-1.7.1
```

```
CATALINA_HOME=/home/dspace/apache-tomcat-6.0.18
```

```
MVN_HOME=/home/dspace/apache-maven-2.1.0
```

```
PATH=$JAVA_HOME/bin:$ANT_HOME/bin:$CATALINA_HOME/bin:
```

```
$MVN_HOME/bin:$PATH
```

```
export PATH JAVA_HOME ANT_HOME CATALINA_HOME MVN_HOME
```

[Creation of Database that will be used by Dspace](#)

Start your postgresql service

```
11.dspace@localhost$ sudo /etc/init.d/postgresql-8.3 restart
```

```
12.dspace@localhost$ sudo su postgres
```

now you will get user prompt like this p

```
postgres@localhost:/home/dspace$
```

```
13.postgres@localhost:/home/dspace$ createuser -U postgres -d -A -P dspace
```

(it will ask for password give dspace(you can choose your own password , bt don't forget to enter it in dspace.cfg file :-)) as password

it will ask weather this new role will be able to create new roles say “no”)

```
14.postgres@localhost:/home/dspace$ exit
```

Create database dspace as user Dspace

15.dspace@localhost\$ **createdb -U dspace -E UNICODE dspace**

16.dspace@localhost\$ **exit**

17.\$**sudo gedit /etc/postgresql/8.3/main/pg_hba.conf**

(add this line **host dspace dspace 127.0.0.1 255.255.255.255 md5**)

In case of postgresQL latest versions

Replace “**ident sameuser**” by “**trust**” and **save and exit**

18.\$**sudo gedit /etc/postgresql/8.3/main/postgresql.conf**

uncomment the line listen localhost
save and exit

Edit the dspace.cfg file :this is the very important file because many configuration we have to do in this file.

➔ dspace@localhost\$ **cd /home/dspace/dspace-1.5.2-src-release/dspace /config**

➔ dspace@student:~/dspace-1.5.2-src-release/dspace/config\$ **dspace.cfg**

I. dspace.dir = /dspace (it will like this u have to give path)
dspace.dir = **/home /dspace** (if you wrong path here it will not create the webapp folder in /home/dspace)

II. dspace.url= <http://localhost:8080/jspui> or u just mentioned the ipaddress)

III. Name of the site

dspace.name = Dspace at my university

IV. Database username and password

db.username = \${default.db.username}

db.password = \${default.db.password}

#db.username = dspace

#db.password = **dspace** (dspace is default passwd if u will change passwd at the time of creation of database,than u have to chnage here also).

V. **Email settings**

SMTP mail server

mail.server=**drtc.isibang.ac.in**

VI. **From address for mail**

mail.from.address = **dspace-admin@drtc.isibang.ac.in**

VII. Currently limited to one recipient!

feedback.recipient = **nilesh@drtc.isibang.ac.in**

Now we are ready for compilation

login as dspace user and give the following command for **runing the maven**

19.dspace@localhost\$ **cd /home/dspace/dspace-1.5.2-src-release/dspace**

20.dspace@localhost:~/dspace-1.5.2-src-release/dspace\$ **mvn package**

now **for runing ant** go to **dspace-1.5.2-build.dir** by giving following command

21.\$ **cd /home/dspace/dspace-1.5.2-src-release/dspace/target/dspace-1.5.2-build.dir/**

22.\$**ant fresh_install**

after build successful of ant u have to copy three files following this command:

23.dspace@localhost:~\$ **cp -r /home/dspace/webapps/jspui/ /home/dspace/apache-tomcat-6.0.18/webapps/**

24.dspace@localhost:~\$ **cp -r /home/dspace/webapps/xmlui/ /home/dspace/apache-tomcat-6.0.18/webapps/**

25.dspace@localhost:~\$ **cp -r /home/dspace/webapps/oai/ /home/dspace/apache-tomcat-6.0.18/webapps/**

now you **Start Tomcat service** by giving this command

26.dspace@localhost:~\$ **/home/dspace/apache-tomcat-6.0.18/bin/./startup.sh**

 "or"
 dspace@localhost:~\$ **/home/dspace/apache-tomcat-6.0.18/bin/./catalina.sh**

27.dspace@localhost:~\$ **firefox <http://localhost:8080/jspui>**

28.dspace@localhost:~\$ **firefox <http://localhost:8080/xmlui>**

We have done it YAHOO!

One more thing u have to create administrator account:

Run this as dspace user and give this command

dspace@localhost:~\$ **/home/dspace/bin/create-administrator**
