

Installing DSpace 4.x on Ubuntu 12.04 LTS

Installation of prerequisite applications

Open **Applications > Accessories > Terminal** and execute following commands.

```
sudo apt-get install leafpad
sudo apt-get install openjdk-7-jdk
sudo apt-get install postgresql
sudo apt-get install tomcat7
sudo apt-get install ant maven
```

Create the database user

```
sudo su postgres
createuser -U postgres -d -A -P dspace
```

Enter password for new role: [*Enter a password e.g. dspace*]

Shall the new role be allowed to create more new roles? (y/n) n

[*Enter n and press enter button*]

Type **exit**

Allow the database user (dspace) to connect to the database

[If the following command not open, check the postgresql version number and apply in the command]

```
sudo leafpad /etc/postgresql/9.1/main/pg_hba.conf
```

Add this line to the configuration file at the end:

```
local all dspace md5
```

save and close the file

Restart PostgreSQL :

```
sudo su
/etc/init.d/postgresql restart
```

Create Dspace user

```
sudo useradd -m dspace
sudo passwd dspace [enter a password for the new user dspace]
sudo mkdir /dspace
sudo chown dspace /dspace
```

Create the PostgreSQL 'dspace' database

```
sudo -u dspace createdb -U dspace -E UNICODE dspace
```

Configure Tomcat

[If the following command not open, check the tomcat version number and apply in the command]

```
sudo leafpad /etc/tomcat7/server.xml
```

Insert the following chunk of text just above the closing </Host>

```
<!-- Define a new context path for all DSpace web apps -->
<Context path="/xmlui" docBase="/dspace/webapps/xmlui"
allowLinking="true"/>
<Context path="/sword" docBase="/dspace/webapps/sword"
allowLinking="true"/>
<Context path="/oai" docBase="/dspace/webapps/oai"
allowLinking="true"/>
<Context path="/jspui" docBase="/dspace/webapps/jspui"
allowLinking="true"/>
<Context path="/lni" docBase="/dspace/webapps/lni"
allowLinking="true"/>
<Context path="/solr" docBase="/dspace/webapps/solr"
allowLinking="true"/>
save and close the file.
```

Create Dspace directory

```
sudo mkdir /build
sudo chmod -R 777 /build
cd /build
```

Download Dspace to /build directory

You can check latest version of Dspace from [here](#).
wget

<http://sourceforge.net/projects/dspace/files/DSpace%20Stable/4.1/dspace-4.1-src-release.tar.gz>

(a single command – in one line)

Extracting Dspace package

```
tar -zxf dspace-4.1-src-release.tar.gz
```

```
cd /build/dspace-4.1-src-release
```

```
mvn -U package
```

(takes long!!!!)

```
cd dspace/target/dspace-4.1-build
```

```
sudo ant fresh_install
```

Fix Tomcat permissions, and restart the Tomcat server

```
sudo chown tomcat7:tomcat7 /dspace -R
```

Restart Tomcat

```
/etc/init.d/tomcat7 restart
```

Make an initial administrator account (an e-person) in DSpace:

```
/dspace/bin/dspace create-administrator
```

It will ask to enter email address for user login. Enter an email address (e.g. dspace@localhost).

Enter First name and surname (e.g. dspace)

Enter a password.

Open Dspace in your browser

You can load either one Dspace interface in a browser.

```
http://localhost:8080/xmlui
```

```
http://localhost:8080/jspui
```