

# Install Dataset Entry Form with middle-ware packages

Created by the Earth Data Analysis Center for NM EPSCoR

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## 1 Install a LAMP server with php-gd

```
admin@server:~$ sudo apt-get install apache2 mysql-server php5-mysql php5  
admin@server:~$ sudo apt-get install php5-gd
```

## 2 Enable necessary Apache modules

```
admin@server:~$ sudo a2enmod ssl rewrite proxy proxy_http
```

## 3 Install Drupal 7

<https://www.drupal.org/docs/7/install>

You can follow the steps in the URL provided.

For the purposes of this document, I installed in `/var/www/drupal/`

## 4 Enable "AllowOverride All" for clean urls

Edit `apache2.conf` to allow "AllowOverride All" for the drupal root directory.

```
<Directory /var/www/drupal>  
    AllowOverride All  
</Directory>
```

## 5 Create DatasetEntryForm Database

Use your own user and password in place of DEFuser and DEFpassword.

Note: If you copy and paste below you will have to retype the single quotes on the command line.

```
admin@server:~$ mysql -u root -p
```

```
mysql> CREATE DATABASE DatasetEntryForm;
```

```
mysql> CREATE USER DEFuser@localhost IDENTIFIED BY DEFpassword';
```

```
mysql> GRANT SELECT, INSERT, UPDATE, DELETE, CREATE, DROP, INDEX, ALTER,  
      LOCK TABLES, CREATE TEMPORARY TABLES ON DatasetEntryForm.* TO  
      'DEFuser'@'localhost' IDENTIFIED BY 'DEFpassword';
```

```
mysql> quit
```

And finally populate the DB.

```
admin@server:~$ mysql -u DEFuser -p DatasetEntryForm <  
      /var/www/drupal/sites/all/modules/DatasetEntry/DatasetEntryForm.sql
```

## 6 Install required Drupal modules:

- angularjs-7.x-1.4
- libraries
- jQuery Update
- realname
- token

## 7 Install the Dataset Entry Form Drupal module:

<https://github.com/edac-epscor/DatasetEntry/raw/master/datasetentry.tar.gz>

## 8 Enable all of the newly installed modules.

OTHER				
ENABLED	NAME	VERSION	DESCRIPTION	OPERATIONS
<input checked="" type="checkbox"/>	AngularJS Bridge	7.x-1.4+1-dev	Provides and interface to Drupal for AngularJS Requires: Libraries (enabled), System (enabled) Required by: AngularJS Examples (disabled), AngularJS Map Example (disabled)	<a href="#">Permissions</a>
<input type="checkbox"/>	AngularJS Examples	7.x-1.4+1-dev	Provides examples using AngularJS and Drupal Requires: AngularJS Bridge (enabled), Libraries (enabled), System (enabled), Restws (missing)	
<input type="checkbox"/>	AngularJS Map Example	7.x-1.4+1-dev	Provides example map using AngularJS Requires: AngularJS Bridge (enabled), Libraries (enabled), System (enabled), Date (missing), Facetapi (missing), Features (missing), Feeds (missing), Geofield (missing), jQuery Update (enabled), Number (enabled), Field (enabled), Field SQL storage (enabled), Restws (missing), Restws_search_api (missing), Search_api (missing), Strongarm (missing), Text (enabled), Views (missing), Views_geojson (missing)	
<input checked="" type="checkbox"/>	DataSetEntry	7.x-1.0	unm dataset entry angular app	
<input checked="" type="checkbox"/>	Libraries	7.x-2.3	Allows version-dependent and shared usage of external libraries. Requires: System (enabled) Required by: AngularJS Bridge (enabled), AngularJS Examples (disabled), AngularJS Map Example (disabled)	
<input checked="" type="checkbox"/>	Real name	7.x-1.3	Provides token-based name displays for users. Requires: Token (enabled)	<a href="#">Help</a> <a href="#">Permissions</a> <a href="#">Configure</a>
<input checked="" type="checkbox"/>	Token	7.x-1.7	Provides a user interface for the Token API and some missing core tokens. Required by: Real name (enabled)	<a href="#">Help</a>

USER INTERFACE				
ENABLED	NAME	VERSION	DESCRIPTION	OPERATIONS
<input checked="" type="checkbox"/>	jQuery Update	7.x-2.7	Update jQuery and jQuery UI to a more recent version. Required by: AngularJS Map Example (disabled)	<a href="#">Configure</a>

## 9 Configure the DataSetEntry module

Modify dbConnectPDO.php with the DataSetEntry database connection info.

Edit /var/www/drupal/sites/all/modules/DataSetEntry/phpservices/dbConnectPDO.php

Use your own user and password in place of DEFuser and DEFpassword

```
<?php
$servername = "localhost";
$username = "DEFuser";
$password = "DEFpassword";
$dbname = "DataSetEntryForm";

?>
```

## 10 Configure the AngularJS module

[Home](#) » [Administration](#) » [Configuration](#) » [Development](#)

Configure what files [AngularJS](#) are loaded onto the site. Select which AngularJS version, the compression level and whether or not to use a CDN.

### AngularJS version

1.5.6 ▾

Select which version of AngularJS that's used on the site

### Files

- ☒ angular-animate
- ☒ angular-aria
- ☒ angular-cookies
- ☒ angular-loader
- ☐ angular-message-format
- ☒ angular-messages
- ☒ angular-mocks
- ☐ angular-parse-ext
- ☒ angular-resource
- ☒ angular-route
- ☒ angular-sanitize
- ☐ angular-scenario
- ☐ angular-touch

Which files should be loaded as part of the library

### AngularJS compression level

- ☐ Production (minified)
- ☒ Development (uncompressed)

### AngularJS CDN

Yes ▾

Whether to use the Google CDN

## 11 Add reporting.nmepscor.org software repository:

Edit `/etc/apt/sources.list` Add the following to the bottom:

```
deb https://reporting.nmepscor.org/repo/ trusty main
```

## 12 Update the system repositories:

```
admin@server:~$ sudo apt-get update
```

## 13 Install simpleup and formedit middleware

```
admin@server:~$ sudo apt-get install simpleup formedit
```

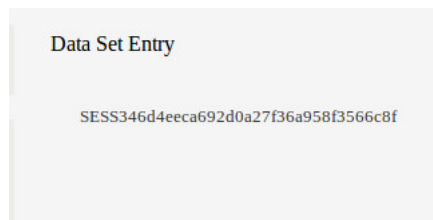
## 14 Find Drupal session cookie ID

To configure simpleup, and formedit you will need the cookie id. Drupal usually generates the cookie ID with a sha256 hash based on the FQDN, and the protocol you are connecting on. There are two ways to get your cookie ID.

1. To get your cookie ID log into the site, and load `/datasetentry#/cookieid` in a web browser.

**Example:**

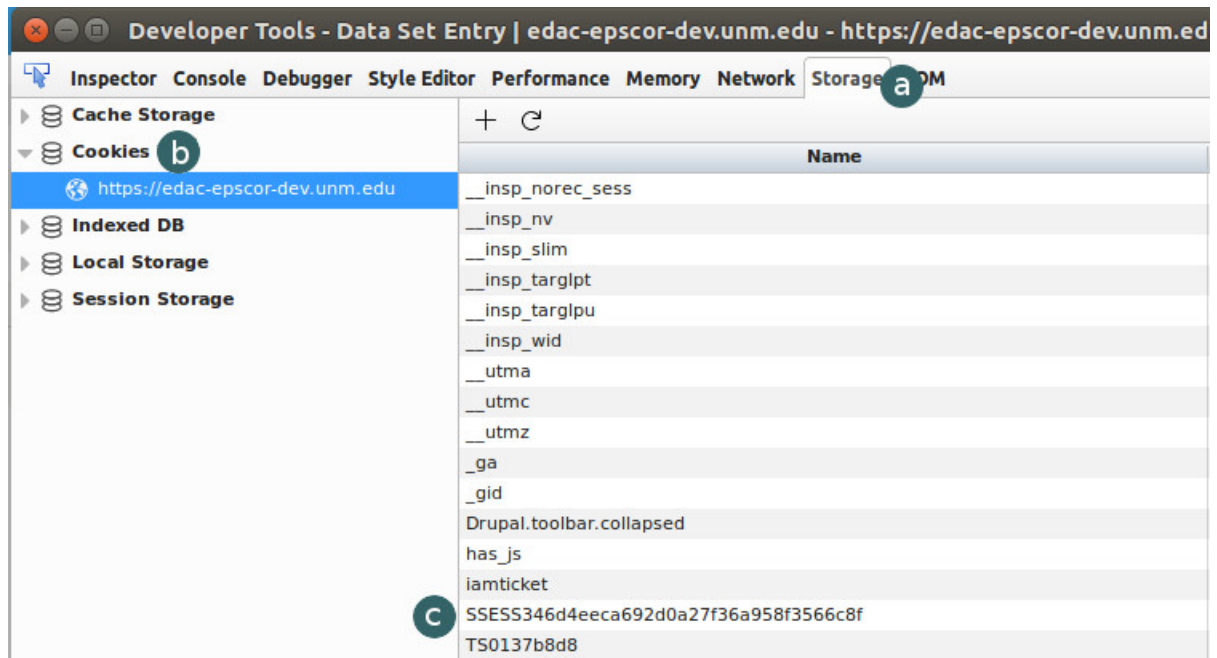
`https://edac-epscor-dev.unm.edu/datasetentry#/cookieid`



Copy and paste to save the string the starts with "SSE" for later use.

2. If the first option does not work, load developer tools in Firefox or Chrome with the keystroke "Ctrl-Shift-I"
  - (a) Click on the storage tab.
  - (b) Expand the Cookies option and select your server name.
  - (c) Locate the cookie ID that starts with "SSE".

Example:



## 15 Configure simpleup

Modify /etc/simpleup/simpleup.conf to use the cookie ID and connect to the 2 databases.

Example(use your own cookie ID and authentication):

```
LogDir = "/var/log/"
UploadDir = "/uploads/"
CookieID = "SSESS346d4eeca692d0a27f36a958f3566c8f"
#simpleup socket info.
IP = "localhost"
Port = "1888"
#MySQL Drupal info
DBHost = "localhost"
DBPort = "3306"
DBUsername = "drupaladmin"
DBPassword = "drupalpassword"
DBName = "drupal"
# MySQL Dataset Entry Form DB info
FormDBUsername = "DEFuser"
FormDBPassword = "DEFpassword"
FormDBName = "DatasetEntryForm"
```

## 16 Configure formedit

Modify `/etc/formedit/formedit.conf` to use the cookie ID and connect to the 2 databases and ip address of the GSToRE instance you wish to insert datasets into.

Example(use your own cookie ID and authentication):

```
#Log files location
LogDir = "/var/log/"

#location where to look for the simpleup files.
UploadDir = "/uploads/"

#Drupal Cookie ID (or name)
CookieID = "SSESS346d4eeca692d0a27f36a958f3566c8f"

#formedit service socket info.
#If you change this you will also have to change the apache config...
IP = "localhost"
Port = "1889"

#MySQL info for Drupal DB
DBHost = "localhost"
DBPort = "3306"
DBUsername = "drupaladmin"
DBPassword = "drupalpassword"
DBName = "drupal"

# MySQL info for Dataset Entry Form DB
FormDBUsername = "DEFuser"
FormDBPassword = "DEFpassword"
FormDBName = "DatasetEntryForm"

#Define groups with space between users. For example: Users="jdoe jsmith"
Admins="admin"
Managers="admin"
Users="admin"

#this is the IP of a gstore instance behind a firewall that has RW DB
connections.
GSToREIP="192.168.1.2"
```

## 17 Start simpleup and formedit services

```
admin@server:~$ sudo service simpleup start
admin@server:~$ sudo service formedit start
```

## 18 Test services

Log into your Drupal instance, and go to the location /datasetentry

**Example:**

**<https://edac-epscor-dev.unm.edu/datasetentry>**

Go through the steps of adding a new dataset.

If there is a problem with the upload service check /var/log/simple.log

Once you submit for approval go to /formedit/

**Example:**

**<https://edac-epscor-dev.unm.edu/formedit/>**

Click on "Submitted for Approval" and you should see a dataset ready to make its way through the QA/QC and insertion process.

If there are any problems check /var/log/formedit.log