MIGRATING SOURCE CODE FROM CVS TO GIT

Using git cvsimport

* Create a clone of the CVS repository. CVSROOT directory is necessary.
* Use *git cvsimport* to import the data from CVS repository to git. This comes bundled with git client.

*git cvsimport -C git\_repo -d /path/to/repo module\_name*

*(If cvsimport not working try it installing first with command :- sudo apt-get install git-cvs*

*)*

* The git\_repo is the directory where the git repository would be initialized. If it doesn’t exist it would be created automatically.
* The -d option mention the path for the clone of the CVS repository where CVSROOT is located.
* *module\_name is name of the module to migrate.*
* *Got To git\_repo Directory*
* *Add remote origin with command :-*  ***git remote add origin*** [***http://192.168.126.99:81/LMS/DGE.git***](http://192.168.126.99:81/LMS/DGE.git)
* *Push this git repo to remote repo :-* ***git push origin master***

Using cvs2git  **(http://cvs2svn.tigris.org/cvs2git.html)**

* Create a dump of history & data(Copy Project Folder From CVS Repository + CVSROOT folder from CVS )

***cvs2git --retain-conflicting-attic-files --encoding=cp1252 --blobfile=/path/to/git-blob.dat --dumpfile=/path/to/git-dump.dat --username=cvs2git /path/to/cvsmodule***

*Example :-*

***./cvs2git --retain-conflicting-attic-files --encoding=cp1252 --blobfile=/home/stpl/git-blob.dat --dumpfile=/home/stpl/git-dump.dat --username=cvs2git /home/stpl/100rep/newlatestrep/LMS\_Mgmt***

* Create a new empty git repository. Create a new directory & execute the following command in the directory.

***git init***

* Got to git diretory :- **cd /path/to/myproject.git**
* Import the data into the git directory.

***cat /path/to/git-blob.dat /path/to/git-dump.dat | git fast-import***

*Example :-*

***cat /home/stpl/git-blob.dat /home/stpl/git-dump.dat | git fast-import***

* Re-compact the repository and discard any garbage

***git gc --prune=now***

* Push the code into Git repository.

For Pushing the Repository From local Git Repo to Remote Repo

* Go To the newly added Repo
* Add Origin in the Remote Repo

***git remote add origin*** [***http://192.168.126.99:81/LMSDevOps/PMS.git***](http://192.168.126.99:81/LMSDevOps/PMS.git)

* Push the Repo to the Remote Repo

***git push origin master***

All Steps ends here if you are migrating CVS Head branch to Git

But if you need to push any other branch than you need to checkout that branch from CVS

Then use below command to copy files to you newly added git repo(you should be in git repo dir )

Example :- **cp -r /home/stpl/Music/LMS\_MgmtHead/\* .**

Now you can ush the Repo to the Remote Repo using below

***git push origin master***