**SVN**

**How to create Repository**

* Only root can create new repository
* Identify the repository name and cluster. You must follow the approval process before creating any new repository.
* =sudo su - = be the root
* Create repository **svnadmin create /opt/svnroot/<repo\_cluster>/<Repo\_name>**
* create the hook scripts if asked by requester.
* Add 2 checks in pre commit script. Those are binary\_file\_check and detect-merge-conflicts. You can take look at the configuration of other repo.
* change the owner of repository to apache **chown -R apache:apache /opt/svnroot/<repo\_cluster>/<Repo\_name>**
* checkin the configuration in SVN under SCM Master folder.
* Now you need to create Mirror repository on vm1008 and svn1000, Please follow the steps to create "Mirror repository".

**How to create Mirror Repository**

* Take the hotcopy of the repository from vm1007

**svnadmin hotcopy /opt/svnroot/<repo\_cluster>/<Repo\_name> /tmp/<Repo\_name>**

* Remove the hook script if any
* create a tar file of the repo and scp it to vm1008 and svn1000
* Log in to vm1008 and untar the file.
* now again do hotcopy to svnroot location.

**svnadmin hotcopy <Repo\_name> /opt/svnroot/<repo\_cluster>/<Repo\_name>**

* Create 2 hook scripts start-commit and pre-revprop-change, take example from other repository or you can directly copy these scripts from other repository because all scripts are same.
* Change the owner of repository to apache **chown -R apache:apache /opt/svnroot/<repo\_cluster>/<Repo\_name>**
* checkin these changes in to SVN too under mirror folder.
* Now you need to initialize the sync mechanism, login to master server vm1007 again as root.
* Go to repository hook location and add following content in post-commit script. (You can copy these script from other repo but pay attention to send mail configuration and "TO" field where svn URL is mentioned.

#Calling sync job  
TO=https://svn-mirror.corp.inmobi.com/inmobi/<repo\_name>/  
TO2=https://svn-mirror-ev1.scm.corp.inmobi.com/inmobi/<repo\_name>/  
/opt/svnroot/hook-scripts/sync.sh "$REPOS" "$TO" "$TO2" 2>&1 > /dev/null &

The Above will run after every commit and sync the latest revision to mirror.

* create a post-revprop-change script and add above content with following change

TO=https://svn-mirror.corp.inmobi.com/inmobi/<repo\_name>/  
TO2=https://svn-mirror-ev1.scm.corp.inmobi.com/inmobi/<repo\_name>/  
/opt/svnroot/hook-scripts/sync\_prop.sh "$REPOS" "$TO" "$TO2" 2>&1 > /dev/null &

* Now, you need to initialize the sync, run the following command.

**svnsync initialize http://svn-mirror.corp.inmobi.com/<repo\_cluster>/<Repo\_name>/ http://svn.corp.inmobi.com/<repo\_cluster>/<Repo\_name>/ --sync-username svn --sync-password <get it from SCM> --source-username svn --source-password <get it from SCM>**

* Perform Above actions for svn1000 also.But the process is little different. You need to create repository via ubersvn https://svn-mirror-ev1.scm.corp.inmobi.com:9900/ubersvn (make sure you give svn user read and write access) and then follow the above process from hotcopy.
* In addition to start-commit and pre-revprop-change, you will need to add post-commit file too in hook folder for svn-mirror-ev1.

**Note** - Checkin all changes to SVN.

**How to debug the svn sync problem**

Usualy sync failed and we get the alert saying the sync is getting failed.

if you try to run the sync manualy it may throw following error.

Failed to get lock on destination repos, currently held by 'vm1007.corp.inmobi.com:db33884a-d10f-11e1-924a-47b0d8d1042f'  
Failed to get lock on destination repos, currently held by 'vm1007.corp.inmobi.com:db33884a-d10f-11e1-924a-47b0d8d1042f'

This means last sync couldn't perform the whole action and lock is still hanging for the repo.

In this case you log in to mirror server for which it is failing and run the following command

*svn propdel svn:sync-lock --revprop -r 0 https://svn-mirror.corp.inmobi.com/inmobi/<reponame>/*

This will clear the lock and output would be something like "*property 'svn:sync-lock' deleted from repository revision 0*".

Then you can go and run the manual sync command and it should work now. :)