

# **Setup SVN server on ubuntu 14.04**

- 1. Login as a normal user, and update ubuntu repositories**

`sudo apt-get update`

- 2. download apache2 http server and SVN**

`sudo apt-get install subversion apache2  
libapache2-svn apache2-utils`

- 3. make a folder for saving SVN repositories**

`sudo mkdir -p /svn/`

- 4. Edit `dav_svn.conf` file**

`sudo vi /etc/apache2/mods-enabled/dav_svn.conf`

## **5. Our setting file**

```
<Location /svn>  
    DAV svn  
    SVNParentPath /svn  
    AuthType Basic  
    AuthName "Subversion Repository"  
    AuthUserFile /etc/subversion/passwd  
    Require valid-user  
</Location>
```

## **6. Build account and password for SVN**

```
sudo htpasswd -c /etc/subversion/passwd user1  
sudo htpasswd -m /etc/subversion/passwd user2
```

*\*-c : create new passed file, and use for 1st  
create username/password*

## 7. Create SVN files for repository

```
sudo svnadmin create /svn/testrepo
```

## 8. Set the permission to access those repositories

```
sudo chown -R www-data:www-data /svn
```

## 9. Restart Apache2 Server

```
sudo /etc/init.d/apache2 restart
```

## 10. check SVN is ready or not

URL: [http://localhost/svn/\[repository name\]](http://localhost/svn/[repository name])

***open that URL in your browser and you also have to input the username/password that you just set up.***

- root# mkdir -p /tmp/svn\_proj/{trunk,branches,tags}
- To import the directory structure into svn Repo:
  - root# cd /tmp/svn\_proj
  - root# svn import .  
<http://192.168.33.16/svn/testrepo/> -m "Creating trunk , tags , branches"

- root# useradd user1
- root# passwd user1 → user1
- root# useradd user2
- root# passwd user2 → user2
- root# mkdir -p /home/user1
- root# chown -R user1:user1 /home/user1
- root# mkdir -p /home/user2
- root# chown -R user2:user2 /home/user2
- root# su user1

## To checkout the repo. into user1 home dir:

- user1# svn checkout  
<http://192.168.33.8/svn/testrepo>
- user1# cd ~/testrepo/trunk
- user1# vi index.html
- user1# <h1> Hello World </h1>
- user1# svn status
- user1# svn add index.html
- user1# svn commit -m 'new line'
- user1# svn info index.html
- user1# svn update
- root# su user2

## To checkout the repo. into user2 home dir:

- user2# svn checkout  
<http://192.168.33.8/svn/testrepo>
- user2# cd ~/testrepo/trunk
- user2# vi index.html
- <h2> Good Day </h2>
- user2# svn status
- user2# svn commit -m 'new line from user2'
- user1# vi index.html . . . .
- user1# svn commit -m 'new line from user1'  
conflict will raise . . . .
- user1# svn diff
- user1# svn update

- **Working with Tags:**

```
user1-testrepo# svn copy --revision=3 trunk/  
tags/MyPage1
```

(or)

```
svn copy -r3 trunk/ tags/MyPage1
```

```
User1# svn status
```

```
User1# svn commit -m 'New Tag : Mypage1'
```

```
User1# svn log
```

```
User1# svn log -v
```

Open browser then check tags . . .

- **Working with Branches :**
- user1-testrepo# svn copy -r5 trunk/  
branches/table\_fun
- User1# svn status
- User1# svn commit -m 'New Branch: table\_fun'
- User1# vi branches/index.html . . . .
- User1# svn commit -m 'Table is added'
- User1# svn update
- Open browser then check branches. . .
- **Merging a Branch into Trunk**
- User1-trunk# svn merge ../branches/table\_fun/
- User1# svn commit -m 'branch code merged'

# SVN Status Codes

Code	Meaning
U	Working file was updated
G	Changes on the repository were automatically merged into the working copy
M	Working copy is modified
C	This file conflicts with the version in the <u>repo</u> (see Conflicts below)
?	This file is not under version control
!	This file is under version control but is missing or incomplete
A	This file will be added to version control (after commit)
A +	This file will be moved (after commit)
D	This file will be deleted (after commit)