

subversion

Source control

install and configure

- install from ports, ensuring we use the BDB backend
WITH_BDB=true

we create a single location for our repository.

```
svnadmin create /usr/home/pbrian/repos/PBRIAN
```

set up users and passwords, assuming you use the svnserve daemon which is a fairly easy network approach.

```
<repository>/conf/svnserve.conf - uncomment the lines below anon-access = read auth-  
access = write password-db = passwd realm = paul-brian.com
```

```
svnserve -r /usr/home/pbrian/repos -d svnserve -r /usr/home/pbrian/repos -d --listen-host  
localhost
```

now I should be able to see all that is going on in my repository with

```
svn ls svn://localhost/PBRIAN
```

for debugging the first time, I find the below useful:

```
svnserve -r /usr/home/pbrian/repos --listen-host localhost -X  
<this listens on my localhost>
```

I do not have to have the svnserve running all the time. in fact it could be a security risk

so far

I have a listening svn daemon on my machine, and a repository. The svn daemon is listening for all repositorys at /home/pbrian/repos At the moment only PBRIAN repository exists, so i need to access the repository as follows

```
svn ls svn://localhost/PBRIAN/
```

Autostarting

The port has added to /usr/local/etc/rc.d (where startup scripts are kept) a script *svnserve*
This script has 3 important changes

- the path to the repository directory

- the user and group svn

I shall change the path to the one above. But I need to add a user and group called svn (it could be anything but that is a sensible default)

```
pbrianlap# pw group add svn pbrianlap# pw user add svn -g svn
chown -R svn:svn /usr/home/pbrian/repos/ (this last is easy to forget - svn user needs to
be able to write to the repository)
```

first time - setting up a working directory

Firstly - think how you will be setting up the work. I am writing a book-cum-website. It is fairly linear and simple, so I will keep to the recommended 'trunk-tag-branch' approach I cannot imagine having many branches, the book will not diverge a lot, so I shall create a file structure as below

```
/usr/home/pbrian/thebook -tags -trunk
```

Unexpected indentation.

```
-thebook          -introduction.chp
```

```
svn import thebook svn://localhost/PBRIAN -m 'my first import'
```

you will be asked for your authentication password and username. these then get cached by svn for next time.

Directories and stuff

checkouts can be awkward. the difference between these two commands for example

```
svn co svn://localhost/PBRIAN/
```

```
svn co svn://localhost/PBRIAN/ ./
```

```
pbrianlap# svn co svn://localhost/PBRIAN/ A PBRIAN/trunk A PBRIAN/trunk/build A PBRIAN/trunk/build/bu
A PBRIAN/trunk/build/tools A PBRIAN/trunk/build/tools/build_pkg_maker
```

```
pbrianlap# svn co svn://localhost/PBRIAN/ ./ A trunk A trunk/build A trunk/build/build.log A
trunk/build/tools A trunk/build/tools/build_pkg_maker
```