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Trac (interface to Subversion and integrated wiki) and SVN (subversion)

Trac is an enhanced wiki and issue tracking system for software development projects. It provides a Graphical front end to SVN where diffs in files can be obtained. It **cannot** update the SVN repository. It simply provides a Project Management interface, wiki, ticketing system, and SVN front end.

SVN is a free/open-source **V**ersion **C**ontrol **S**ystem. Subversion (SVN) manages files and directories over time. Files are placed into a central repository and every change every made to the files or directories are remembered. If you are not familiar with SVN - then the following PDF document is a DEFINATE MUST:
<http://svnbook.red-bean.com/>

Install SVN + Trac Software on Debian Sarge / SID

```
apt-get install apache2
apt-get install subversion
apt-get install libapache2-svn
apt-get install trac
```

Get SVN Working

```
mkdir /var/lib/svn
mkdir /var/lib/svn/projectname
svnadmin create /var/lib/svn/projectname --fs-type fsfs
chown -R www-data /var/lib/svn/projectname
chgrp -R www-data /var/lib/svn/projectname
```

In order to keep all SVN + apache2 configs together the following steps were carried out:

```
mkdir /etc/apache2/svn
vi /etc/apache2/apache2.conf
                                #Include Configs for Svn:
                                Include /etc/apache2/svn/[^.#]*
vi /etc/apache2/svn/projectname
                                <Location /svn/projectname>
```

Trac_and_SVN

```
DAV svn
SVNPath /var/lib/svn/projectname

AuthType Basic
AuthName "Subversion Repository - Projectname"
AuthUserFile /etc/apache2/svn/.htpasswd

<LimitExcept GET PROPFIND OPTIONS REPORT>
    Require valid-user
    SSLRequireSSL
</LimitExcept>
</Location>
```

```
htpasswd2 -c .htpasswd username
```

SVN should be all working now. If you go to <http://host/svn/projectname> you should see all there.

Get TRAC Working

It is best if trac is installed into a User's home directory, e.g. /home/user

```
trac-admin /home/user/projectname initenv
//enter data for the title
//enter data for the sql-lite database (choose defaults)
//enter path to svn info ( /var/lib/svn/projectname )
//enter path to Trac template (choose default)
```

```
trac-admin /home/username/projectname/ permission add username MILESTONE_ADMIN REPORT_ADMIN ROADMAP_
//should work fine.
```

```
chmod -R username:group /home/username/projectname
chgrp -R www-data /home/username/projectname/db
chmod -R 775 /home/username/projectname/db
```

```
mkdir -p /home/username/public_html/projectname
vi /home/username/public_html/projectname/.htaccess //not necessary, but useful for images/download
```

```
vi /etc/apache2/svn/projectname //add the content below it the end.
    ScriptAlias /~username/projectname /usr/share/t
    <Location "/~username/projectname">
        SetEnv TRAC_ENV "/home/username/projectname"
    </Location>

    <Location "/~username/projectname/login">
        SSLRequireSSL
        AuthType Basic
        AuthName "Trac Login for Projectname Website"
        AuthUserFile /etc/apache2/svn/.htpasswd
        Require valid-user
    </Location>
```

Trac on Debian Lenny

- See: [Upgrade Trac](#)

Delete a TRAC & SVN Account

Things to delete:

```
rm -R /var/lib/svn/projectname
rm /etc/apache2/svn/projectname
rm -R /home/username/projectname
rm -R /home/username/public_html/projectname //if exists
```

Add a TRAC & SVN Account

Sorry if this repetitive of above.

```
svnadmin create /var/lib/svn/projectname --fs-type fsfs
chown -R www-data:www-data /var/lib/svn/projectname
trac-admin /home/user/projectname initenv
trac-admin /home/username/projectname/ permission add username MILESTONE_ADMIN REPORT_ADMIN ROADMAP_
chown -R username:group /home/username/projectname
chgrp -R www-data /home/username/projectname/db
chmod -R 775 /home/username/projectname/db

vi /etc/apache2/svn/projectname
<Location /svn/projectname>
DAV svn
SVNPath /var/lib/svn/projectname

AuthType Basic
AuthName "Subversion Repository - Projectname"
AuthUserFile /etc/apache2/svn/.htpasswd

<LimitExcept GET PROPFIND OPTIONS REPORT>
    Require valid-user
    SSLRequireSSL
</LimitExcept>
</Location>

ScriptAlias /~username/projectname /usr/share/trac/cgi-bin/trac.cgi
<Location "/~username/projectname">
SetEnv TRAC_ENV "/home/username/projectname"
</Location>

<Location "/~username/projectname/login">
SSLRequireSSL
AuthType Basic
AuthName "Trac Login for Projectname Website"
AuthUserFile /etc/apache2/svn/.htpasswd
Require valid-user
</Location>

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

Wipe a SVN repo and update Trac

If you want to wipe a svn repo - if it got corrupt or if something happened, AND you want to keep trac etc. you need to do the following:

Trac_and_SVN

```
rm /var/lib/svn/projectname
/var/lib/svn/projectname
//chown and reset permissions as covered previously
```

Trac then will give the following error: "The 'repository_dir' has changed, a 'trac-admin resync' operation is needed". Here is what to do:

```
trac-admin /home/username/projectname resync
```

Hope that works ok for you. Info: <http://trac.edgewall.org/ticket/4204>

Click here for Using Trac & Svn

Errors and Problems with Trac

After upgrading python2.3 to python2.4 (among other things) on the compsoc server, trac got itself broken. The errors I was getting were: "file is encrypted or is not a database" and "clearsilver not installed etc."

1. Check that:

```
/usr/bin/python is symlinked to: python2.4
```

2. Check that sqlite is installed. It is quite possible that only sqlite3 is installed, hence giving the above problems.

3. This might solve some issues. If it doesnt:

```
cd /project/trac/db
cd /var/site/nara.ms/project/hoge/trac
mv trac.db trac2.db
sqlite trac2.db .dump | sqlite3 trac.db
trac-admin trac upgrade
trac-admin trac resync
```

More info on this error can be found at: <http://hidelafoiglia.livejournal.com/33118.html>

Information Used:

<http://www.debianhelp.co.uk/trac.htm>

Skynet Configs.