

Subversion

Administrator's Guide

Release 5.0

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Preface

Subversion is an open source application for revision control. Also commonly referred to as svn or SVN, Subversion is designed specifically to be a modern replacement for CVS and shares a number of the same key developers.

The Subversion web site [<http://subversion.tigris.org/>] carries details on the latest release and other information to make your work or play with Subversion more productive. And The mailing lists are a good place to have your questions answered, to share experiences with other users, and to contact the developers.

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Installation

1.1. Download and Build

Before this step, you must install apr, apr-util and apache. Download and save source archive from <http://subversion.tigris.org>

```
cd /usr/local/src
wget http://subversion.tigris.org/downloads/subversion-X.X.X.tar.gz
wget http://subversion.tigris.org/downloads/subversion-deps-X.X.X.tar.gz
tar xzf subversion-X.X.X.tar.gz
tar xzf subversion-deps-X.X.X.tar.gz
apt-get install libneon25-dev libexpat1-dev
./configure --prefix=/usr/local/subversion-X.X.X --with-apxs=/usr/local/apache/bin/apxs --without-berkeley
make
make install
```

1.2. Install

Install binaries and create required symbolic links.

```
cd /usr/local
ln -s subversion-X.X.X subversion
mkdir /var/local/subversion
```

Compile apache mod_dav if not enable

```
cd /usr/local/src
wget httpd-version.tar.gz
tar xzf httpd-version.tar.gz
./configure --with-apxs=/usr/local/apache/bin/apxs --enable-dav=shared
make
cp ./modules/dav/main/.libs/mod_dav.so /usr/lib/apache/modules
```

Edit /etc/apache/conf/httpd.conf, and check this lines :

```
LoadModule dav_module      modules/mod_dav.so
LoadModule dav_svn_module  modules/mod_dav_svn.so
LoadModule authz_svn_module modules/mod_authz_svn.so
```

1.3. Configuration

Create a repository

```
svnadmin create /var/local/subversion/REPO
chown -R apache /var/local/subversion/REPO
```

Register repository in apache configuration :

```
<VirtualHost *:80>
  ServerAdmin support-unix@fr.colts.net
  DocumentRoot /srv/www
  ServerName REPO
  ErrorLog "|/usr/bin/cronolog /var/log/apache/REPO/%Y%m%d-error_log"
  CustomLog "|/usr/bin/cronolog /var/log/apache/REPO/%Y%m%d-access_log" combined
  Options -Indexes

  <Location / >
    DAV svn
    SVNPath /var/local/subversion/REPO
    AuthType Basic
    AuthName "REPO NAME - Subversion Repository"
    AuthUserFile /etc/apache/conf/secure/svnpwd
    AuthzSVNAccessFile /etc/apache/conf/secure/REPO-dav_svn.authz
    Require valid-user
  </Location>

</VirtualHost>
```

After, we must create standard htpassd file `/etc/apache/conf/secure/svnpwd` and access rights file `/etc/apache/conf/secure/REPO-dav_svn.authz`, in example :

```
[groups]
svn-admin = xavierm, jeromeb
conf-committers = xavierm, jeromeb

[/]
@svn-admin = rw
@conf-committers = rw

#[:/path]
#@conf-committers = rw
```