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|  | **2014** |
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| **[Build Environment** |
| Installation and configuration of Subversion |

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# Installation, Adding user & Starting the server

## Installation

A quick way to install is using yum  
$ sudo yum install subversion

## JavaHL

If Eclipse plugins Subclipse / Serversive are used, you may want to install javahl, e.g.  
for debian:  
sudo apt-get install libsvn-java  
Installs libsvnjavahl-1.so is installed into the /usr/lib/jni directory.  
Ref: <http://islandlinux.org/howto/installing-javahl-subclipseeclipse-ubuntu>

## Create/list a repository

In svn repository directory (which can be anywhere; here: /usr/local/svn/repos) create a repository called test.  
$ sudo svnadmin create /usr/local/svn/repos/test  
This will create the repo test which also includes directory **conf** with the **files svnserve.conf** and **passwd.**

To list created repositories.  
Login server and give command:  
$ ls /usr/local/svn/repos

## User Management

Create an svn user for the created repo, here: /usr/local/svn/repos/test .  
# sudo vi /usr/local/svn/repos/test/conf/svnserve.conf  
Add/change the following:  
anon-access = none  
auth-access = write  
password-db = passwd

Create a password file:  
# sudo vi /usr/local/svn/repos/test/conf/passwd  
Add a line:  
exampleuser = examplepassword

## Start SVN server / autostart

To Start svn server manually  
Login, open terminal and enter  
$ sudo svnserve –d –-foreground –r /usr/local/svn/repos

Todo: autostart.

## Checkout project

To access repo test located at: /usr/local/svn/repos/test   
use: svn://guestserver.com/test

svn://guestserver.com/test/trunk/<name-project>

# Linux SVN Cient

rapidsvn + meld (for diff)

<http://meldmerge.org/>, provides diff

# Keeping file permissions

Discussed where with commands:   
<http://thinkinginsoftware.blogspot.nl/2013/04/keeping-file-execution-permission-in.html>   
  
used:   
$ find . -name "\*.sh" | xargs svn propset svn:executable yes

# Jenkins

To define a Project in Jenkins that uses svn, e.g.  
svn://127.0.0.1/test/trunk/<name-project>  
it will be required to define credentials. This is done at  
Jenkins -> Manage Jenkins (menu on left) -> Manage Credentials -> AddCredentials (button)  
next scope: global (master & slave)  
username: svn user name  
password: svn password  
description: e.g. mention repo

# Proxy to access external SVN

Ref: <http://stackoverflow.com/questions/82530/svn-over-http-proxy>   
Edit the file:  
$ sudo vi /etc/subversion/servers

add:  
[Global]  
http-proxy-host=my.proxy.com  
http-proxy-port=3128