FAQ - new svn repository and project

List of Frequently Asked Questions

Where do I find a quickstart guide for svn?

For quickstart of svn you may refer to:

```
http://svnbook.red-bean.com/
nightly/de/svn-book.html\#svn.intro.quickstart
```

How do I set up a new svn repository?

You may log on as root and choose an appropriate location for you repository:

```
su
mkdir /var/svn
```

If you assign the sticky-bit (t), files can only be deleted by the owner:

```
chmod +t /var/svn
```

Log off as root:

```
exit
```

To setup the new repository use the `svnadmin` command:

```
svnadmin create /var/svn/repos ; ls /var/svn/repos
```

How do I start a new svn project?

Start with a new folder and generate the basic directory structure of your svn project:

```
mkdir ~/work
mkdir ~/work/myproject
mkdir ~/work/myproject/trunk
mkdir ~/work/myproject/tags
mkdir ~/work/myproject/branches
```

Place all files you want to assign to the new project into `trunk`.

How do I import my new project into the repository?

Use `svn import` and assign a brief description (type in one line):

```
svn import ~/work/myproject file:///var/svn/repos/myproject
  -m "initial import myproject"
```

How do I list the content of my repository?

Use `svn list` to browse your repository, e.g.:

```
svn list file:///var/svn/repos
svn list file:///var/svn/repos/myproject
svn list file:///var/svn/repos/myproject/trunk
```

How do I create a tagged version?

You create a tagged version from trunk, e.g.:

```
svn copy file:///var/svn/repos/myproject/trunk
   file:///var/svn/repos/myproject/tags/Version-1.00
   -m "tagged version 1.0"
```

How do I initialize a new user branch?

You can initialize a new user branch directly from trunk or from a tagged version, e.g.:

```
svn copy file:///var/svn/repos/myproject/trunk
   file:///var/svn/repos/myproject/branches/anyuser
   -m "first user branch"

svn copy file:///var/svn/repos/myproject/tags/Version-1.00
   file:///var/svn/repos/myproject/branches/anyuser
   -m "first user branch"
```

How do I check out a working copy?

You can check out a working copy from trunk, a user's branch or a tagged version, e.g.

```
svn checkout file:///var/svn/repos/myproject/trunk myproject

svn co file:///var/svn/repos/myproject/branch/anyuser myproject

svn co file:///var/svn/repos/myproject/tags/Version-1.00 myproj_v1.0
```

How do I check out a working copy of a specific revision No.?

A working copy of a specific revision number is checked out as follows (e.g. from trunk):

```
svn checkout -r 6 file:///var/svn/repos/myproject/trunk myproject
```

How do I archive my repository?

Use `svnadmin dump` to export the content of your repository to a portable file:

```
svnadmin dump /var/svn/repos > svn_repos.dump
```

You may also want to create a log file of your repository:

```
svn log file:///var/svn/repos > svn_repos.log
```

How do I set up my repository from archive?

Use `svnadmin load` to import the content of your archive file to your repository:

```
svnadmin create /var/svn/repos_new
```

```
svnadmin load /var/svn/repos_new < svn_repos.dump
```

How do I change a given log message of my repository?

Use `svnadmin setlog` with `--bypass-hooks`, e.g. for log message of revision No. 6:

```
echo "new log message" > newlogmessage
```

```
svnadmin setlog /var/svn/repos -r 6 newlogmessage --bypass-hooks
```

Please notice: the `--bypass-hooks` should be used very carefully.

Alternatively a hook called `pre-revprop-change` must be created by your administrator. In this case you can use the same command withouth the `--bypass-hooks`:

```
svnadmin setlog /var/svn/repos -r 6 newlogmessage
```