

SVN Instructions for Command Line Users

SVN Software Setup

If you do not have svn installed on your system already and you need assistance with installing packages on your system, please submit a service request or send an email to ssl-sysadmin@ssl.berkeley.edu.

In the following instructions, a line starting with the following symbol denotes a command to enter in the terminal

>

This symbol should not be typed into any terminal window. Also, the URL's that are only used for demonstration purposes. Please check with the SVN site admin for the URL you should use for each project repository.

The "Commit message here" is to denote where text describing file/folder changes should be noted to track revision history. The commit message must be in ""

The term command shell and terminal can be used interchangeably in these instructions.

Browsing the SVN repository:

If you want to access only a specific file or folder and not all of the information in the link you provided use the following:

```
> svn ls https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder
```

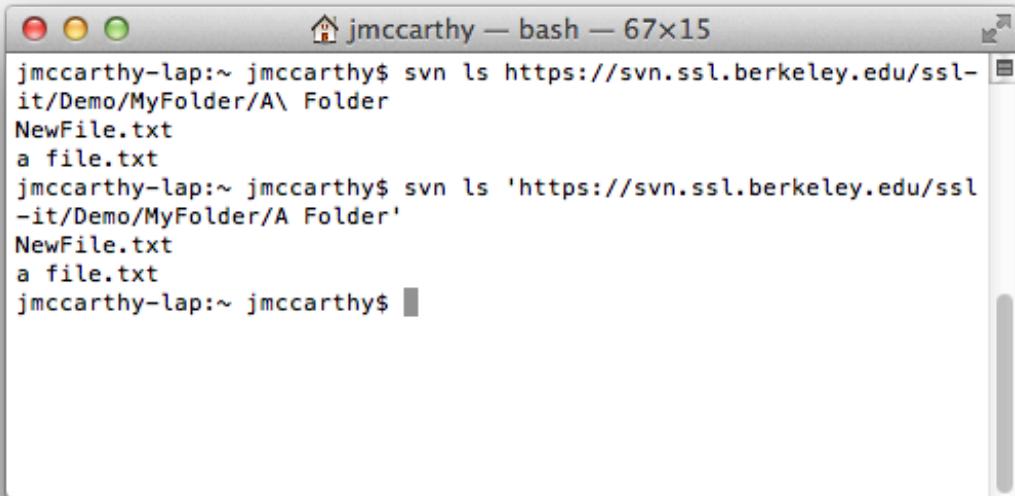
```
Last login: Mon Jun 30 09:12:57 on ttys000
jmccarthy-lap:~ jmccarthy$ svn ls https://svn.ssl.berkeley.edu/ssl
-it/Demo/MyFolder
Authentication realm: <https://svn.ssl.berkeley.edu:443> SSL login
required
Password for 'jmccarthy':
A Folder/
Another Folder/
a file copy.txt
a file.txt
another file.txt
jmccarthy-lap:~ jmccarthy$
```

If you wanted to look into the folder "A Folder" you could do the following:

```
> svn ls https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A\ Folder
```

Or

```
> svn ls 'https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder'
```



```
jmccarthy-lap:~ jmccarthy$ svn ls https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A\ Folder
NewFile.txt
a file.txt
jmccarthy-lap:~ jmccarthy$ svn ls 'https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder'
NewFile.txt
a file.txt
jmccarthy-lap:~ jmccarthy$
```

SVN Without a Local Repository Copy

If you do not need to modify any files/folders and only rarely need access, the following commands may suit your needs. Otherwise, the local repository copy is recommended.

-Copy a file/folder to your local system

```
> svn export https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder
```

This will copy "MyFolder" into the current directory on the local system

```
SvnExportTest — bash — 67x15
jmccarthy-lap:~ jmccarthy$ mkdir SvnExportTest
jmccarthy-lap:~ jmccarthy$ cd SvnExportTest/
jmccarthy-lap:SvnExportTest jmccarthy$ svn export https://svn.ssl.b
erkeley.edu/ssl-it/Demo/MyFolder
A    MyFolder
A    MyFolder/a file copy.txt
A    MyFolder/A Folder
A    MyFolder/A Folder/NewFile.txt
A    MyFolder/A Folder/a file.txt
A    MyFolder/Another Folder
A    MyFolder/a file.txt
A    MyFolder/another file.txt
Exported revision 52.
jmccarthy-lap:SvnExportTest jmccarthy$
```

-Add a file to the repository

```
> svn import -m "Commit message here" atest.txt https://svn.ssl.berkeley.edu/ssl-
it/Demo/MyFolder/atest.txt
```

```
SvnExportTest — bash — 67x15
jmccarthy-lap:SvnExportTest jmccarthy$ echo "hello world" > atest.t
xt
jmccarthy-lap:SvnExportTest jmccarthy$ svn import -m "Adding test f
ile" atest.txt https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/at
est.txt
Adding      atest.txt

Committed revision 53.
jmccarthy-lap:SvnExportTest jmccarthy$
```

-Move a file (within the repository)

```
> svn mv https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/atest.txt
"https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/atest.txt" -m "Move atest to a
folder"
```

```
jmccarthy-lap:SvnExportTest jmccarthy$ svn mv https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/atest.txt "https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/atest.txt" -m "Move atest to a folder"

Committed revision 54.
jmccarthy-lap:SvnExportTest jmccarthy$
```

-Rename a file

```
> svn mv "https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/atest.txt"
"https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/btest.txt" -m "Commit message
here"
```

```
jmccarthy-lap:SvnExportTest jmccarthy$ svn mv "https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/atest.txt" "https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/btest.txt" -m "Rename File"

Committed revision 55.
jmccarthy-lap:SvnExportTest jmccarthy$
```

-Remove a File

```
> svn rm "https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/btest.txt" -m "Commit
message here"
```



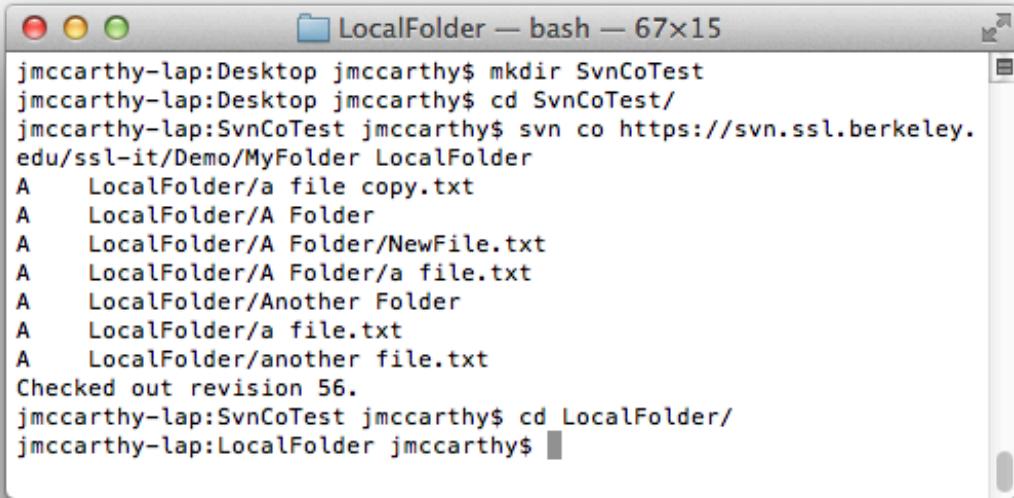
```
SvnExportTest — bash — 67x15
jmccarthy-lap:SvnExportTest jmccarthy$ svn rm "https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/btest.txt" -m "Removing test file"
Committed revision 56.
jmccarthy-lap:SvnExportTest jmccarthy$
```

SVN With Local Repository Copy Setup

First, change your current directory in a terminal window to a folder you would like to store a local version of the repository you need to work with.

To check out a local copy of the file or folder specified in the URL to the current directory:

```
> svn co https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder LocalFolder
```



```
LocalFolder — bash — 67x15
jmccarthy-lap:Desktop jmccarthy$ mkdir SvnCoTest
jmccarthy-lap:Desktop jmccarthy$ cd SvnCoTest/
jmccarthy-lap:SvnCoTest jmccarthy$ svn co https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder LocalFolder
A   LocalFolder/a file copy.txt
A   LocalFolder/A Folder
A   LocalFolder/A Folder/NewFile.txt
A   LocalFolder/A Folder/a file.txt
A   LocalFolder/Another Folder
A   LocalFolder/a file.txt
A   LocalFolder/another file.txt
Checked out revision 56.
jmccarthy-lap:SvnCoTest jmccarthy$ cd LocalFolder/
jmccarthy-lap:LocalFolder jmccarthy$
```

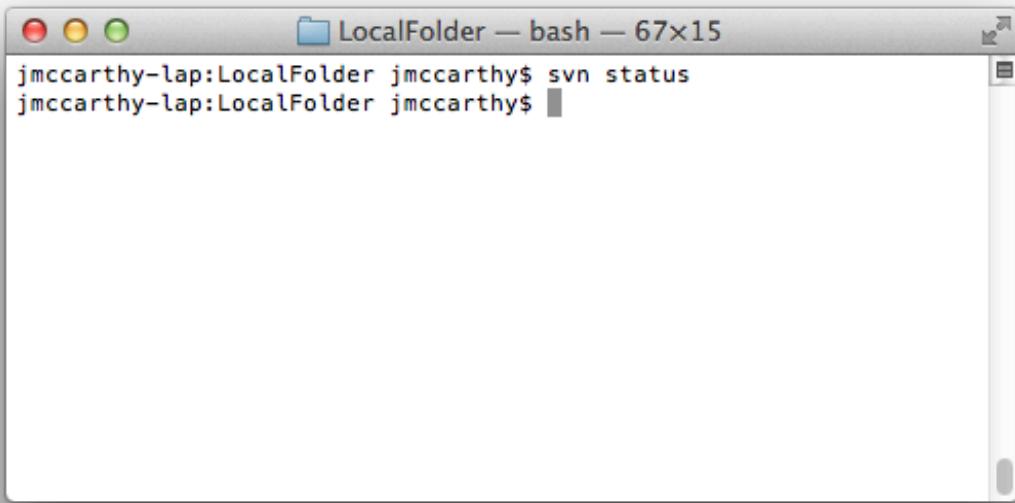
In this case the folder "LocalFolder" will be created in the current directory.

For the following commands, change your current directory to the folder holding items in the svn repo. In the example above, cd to the "LocalFolder" folder or subfolder.

SVN Status

This compares your local repository status with the server.

```
> svn status
```



```
jmccarthy-lap:LocalFolder jmccarthy$ svn status
jmccarthy-lap:LocalFolder jmccarthy$
```

If the command has no output, your files are sync with the server.

SVN Update

The update command updates your local files to the latest copy from the server. This does not change any data on the server.

```
> svn update
```

```
jmccarthy-lap:LocalFolder jmccarthy$ svn update
At revision 56.
jmccarthy-lap:LocalFolder jmccarthy$
```

SVN Commit (check in)

The commit (check in) command commits changes you made to a repo file locally back to the server. This does not change any of your local files.

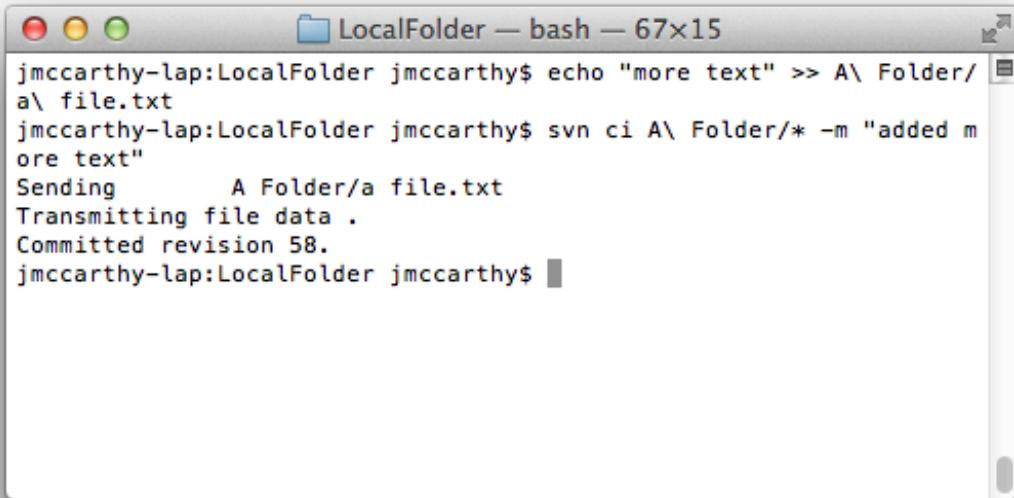
To commit a specific file:

```
> svn another\ file.txt ci -m "Commit message here"
```

```
jmccarthy-lap:LocalFolder jmccarthy$ echo "more text" >> A\ Folder/
a\ file.txt
jmccarthy-lap:LocalFolder jmccarthy$ svn ci A\ Folder/a\ file.txt -
m "added more text"
Sending      A Folder/a file.txt
Transmitting file data .
Committed revision 57.
jmccarthy-lap:LocalFolder jmccarthy$
```

To commit all files added in a local repo directory:

```
> svn directory/* ci -m "Commit message here"
```

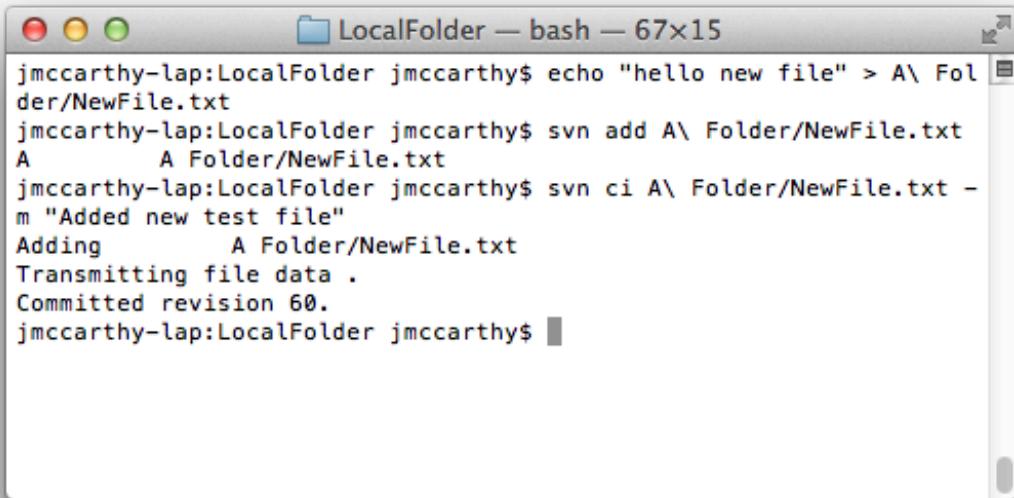


```
jmccarthy-lap:LocalFolder jmccarthy$ echo "more text" >> A\ Folder/a\ file.txt
jmccarthy-lap:LocalFolder jmccarthy$ svn ci A\ Folder/* -m "added more text"
Sending      A Folder/a file.txt
Transmitting file data .
Committed revision 58.
jmccarthy-lap:LocalFolder jmccarthy$
```

Add a file

You can add a file/folder to a svn repository that was not in the repo already.

```
>svn add a\ file\ copy.txt
>svn ci a\ file\ copy.txt -m "Commit message here"
```



```
jmccarthy-lap:LocalFolder jmccarthy$ echo "hello new file" > A\ Folder/NewFile.txt
jmccarthy-lap:LocalFolder jmccarthy$ svn add A\ Folder/NewFile.txt
A          A Folder/NewFile.txt
jmccarthy-lap:LocalFolder jmccarthy$ svn ci A\ Folder/NewFile.txt -m "Added new test file"
Adding      A Folder/NewFile.txt
Transmitting file data .
Committed revision 60.
jmccarthy-lap:LocalFolder jmccarthy$
```

More Information

Please check the following resource for general SVN information:
<http://svnbook.red-bean.com/en/1.7/svn.tour.cycle.html>