Git Case Study

1)Check your current working directory

```
Intuitin@4f7e8c7e4ccb5e3: ~/newsvn
This message is shown once a day. To disable it please create the
//nome/hruthin/.hushlogin file.
hruthin@4f7e8c7e4ccb5e3: ~$ pwd
//nome/hruthin
```

2) Before starting the migration, ensure you have the following tools installed:

Git

Subversion (SVN)

Git-svn

```
Interfinence Trees Contents 1.5 suda apt-get install git-swe
Reading package litts... Done
Bilding dependency tree... Done
The following additional packages will be installed:
Ilbsym-1:lbsym-perl bildsym-perl bilding the installed:
Ilbsym-1:lbsym-perl bilding interfinence in the installed:
Ilbsym-lithsym-perl bilding interfinence in the installed in the in
```

3) Create an empty directory for your new Git repository and initialize it:

```
hruthin@4f7e8c7e4ccb5e3:~/newsvn$ git init

hint: Using 'master' as the name for the initial branch. This default branch name

hint: is subject to change. To configure the initial branch name to use in all

hint: of your new repositories, which will suppress this warning, call:

hint: git config --global init.defaultBranch (name)

Activate Windows

Go to Settings to activate Windows.
```

4) Install subversion(SVN) to create a SVN repository

```
hruthin@4f7e8c7e4ccb5e3:-/newsvn$ sudo apt-get install subversion
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
subversion is already the newest version (1.14.3-1build4).
0 upgraded, 0 newly installed, 0 to remove and 63 not upgraded.
hruthin@4f7e8c7e4ccb5e3:-/newsvn$ svnadmin create svnrepo
```

5) Create a SVN repository and repository structure

```
hruthin@4f7e8c7e4ccb5e3:~/newsvn$ svnadmin create svnrepo
hruthin@4f7e8c7e4ccb5e3:~/newsvn$ cd ..
hruthin@4f7e8c7e4ccb5e3:~\synamin create svnrepo/trunk file:///home/hruthin/svnrepo/branches file:///home/hruthin/svnrepo/tags -m "initial structure"
Committing transaction...
Committed revision 1.
```

6) Create a test directory called my-working-copy and add files like test-file.txt and file.txt.

```
hruthin@4f7e8c?e4ccb5e3:~$ mkdir working-copy
hruthin@4f7e8c?e4ccb5e3:~$ cd working-copy
hruthin@4f7e8c7e4ccb5e3:~$ whorking-copy
hruthin@4f7e8c7e4ccb5e3:~$ whorking-copy
hruthin@4f7e8c7e4ccb5e3:~$ whorking-copy
hruthin@4f7e8c7e4ccb5e3:~$ whorking-copy
hruthin@4f7e8c7e4ccb5e3:~$ whorking-copy
hruthin@4f7e8c7e4ccb5e3:~$ whorking-copy$ svn checkout file:///home/hruthin/svnrepo/trunk /home/hruthin/workingcopy
hruthin@4f7e8c7e4ccb5e3:~$ whorking-copy$ svn add testfile.txt
hruthin@4f7e8c7e4ccb5e3:~$ whorking-copy$ svn checkout file:///home/hruthin/svnrepo/trunk /home/hruthin/working-copy$
hruthin@4f7e8c7e4ccb5e3:~$ whorking-copy$ svn checkout file:///home/hruthin/svnrepo/trunk /home/hruthin/working-copy$
hruthin@4f7e8c7e4ccb5e3:~\working-copy$ svn checkout file:///home/hruthin/svnrepo/trunk /home/hruthin/working-copy$
```

7) Add the new files to svn and commit the changes using svn add and svn commit commands.

```
Activate Windows

When the Injustical Processor Control of Company Service Control of Control of Company Service Control of Control o
```

8) Verify the changes using svn log command

```
Committee revision 3.
hruthin@4f7e8c7e4ccb5e3:~/working-copy$ svn log file:///home/hruthin/svnrepo

r3 | hruthin | 2025-01-30 12:35:21 +0000 (Thu, 30 Jan 2025) | 1 line

new chnage

r2 | hruthin | 2025-01-30 12:30:43 +0000 (Thu, 30 Jan 2025) | 1 line

added a testfile

r1 | hruthin | 2025-01-30 12:10:00 +0000 (Thu, 30 Jan 2025) | 1 line

initial structure
```

9) Checkout the repository to work locally

```
hruthin@4f7e8c7e4ccb5e3:~/working-copy$ svn checkout file:///home/hruthin/svnrepo/trunk /home/hruthin/working-copy
Checked out revision 2.
```

10) Import the files from test directory to your svn repository and verify the changes

```
hruthin@4f7e8c7e4ccb5e3:~$ svn import /home/hruthin/working-copy file:///home/hruthin/svnrepo/trunk -m "initial commit"

Skipped 'working-copy/.svn/.svn'
svn: E160020: File already exists: filesystem '9b7b85if-b6e9-426f-913f-7faefbedd222', transaction '3-3', path '/trunk/testfile.txt'
hruthin@4f7e8c7e4ccb5e3:~$ svn list file:///home/hruthin/svnrepo/trunk
Go to Settings to activate Windows.

testfile2.txt
```

11) Now you will use svn-git to clone the SVN repository into your git repository new-git-repo

```
hruthin@4f7e8c7e4ccb5e3:~/newsyn$ git log
commit 4s5e667/c2a22437f8cbccc946f75d4398afbbcd (HEAD -> master, origin/trunk)
Author: hruthin (hruthin@b7b851f-b6e9-426f-913f-7faefbedd222)
Date: Thu Jan 30 12:35:21 2025 +0000

new chnage
git-svn-id: file:///home/hruthin/svnrepo/trunk@3 9b7b851f-b6e9-426f-913f-7faefbedd222

commit bcd4d4edd5a3fd99ffc43c8ee622923050a95ca9
Author: hruthin (hruthin@b7b851f-b6e9-426f-913f-7faefbedd222)
Date: Thu Jan 30 12:30:43 2025 +0000

added a testfile
git-svn-id: file:///home/hruthin/svnrepo/trunk@2 9b7b851f-b6e9-426f-913f-7faefbedd222

commit ab397e98e19ef7b105483f4b1862faa7861bd36f
Author: hruthin (hruthin@9b7b851f-b6e9-426f-913f-7faefbedd222)
Date: Thu Jan 30 12:10:00 2025 +0000

initial structure
git-svn-id: file:///home/hruthin/svnrepo/trunk@1 9b7b851f-b6e9-426f-913f-7faefbedd222
```