

# SVN Case Study

1. Check your current working directory
2. Before starting the migration, ensure you have the following tools installed:
3. Git
4. Subversion (SVN)
5. Git-svn
6. Create an empty directory for your new Git repository and initialize it:

```
bhargava@23372bc849b55ff: ~/bhargav-git-repo
bhargava@23372bc849b55ff:~$ pwd
/home/bhargava
bhargava@23372bc849b55ff:~$ sudo apt-get install git-svn
[sudo] password for bhargava:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git-svn is already the newest version (1:2.43.0-1ubuntu7.2).
0 upgraded, 0 newly installed, 0 to remove and 65 not upgraded.
bhargava@23372bc849b55ff:~$ git svn --version
git-svn version 2.43.0 (svn 1.14.3)
bhargava@23372bc849b55ff:~$ mkdir bhargav-git-repo
bhargava@23372bc849b55ff:~$ cd bhargav-git-repo
bhargava@23372bc849b55ff:~/bhargav-git-repo$ 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:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/bhargava/bhargav-git-repo/.git/
bhargava@23372bc849b55ff:~/bhargav-git-repo$
```

## 7. Install subversion(SVN) to create a SVN repository

```
bhargava@23372bc849b55ff:~$ 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 65 not upgraded.
bhargava@23372bc849b55ff:~$
```

## 8. Create a SVN repository and repository structure

```
bhargava@23372bc849b55ff:~$ svnadmin create my-svn-repo
bhargava@23372bc849b55ff:~$
bhargava@23372bc849b55ff:~$ svn mkdir file:///home/bhargava/my-svn-repo/trunk file:///home/bhargava/my-svn-repo/branches file:///home/bhargava/my-svn-repo/tags -m "Initial Structure"
Committing transaction...
Committed revision 1.
bhargava@23372bc849b55ff:~$
```

Linux > Ubuntu > home > bhargava > my-svn-repo					
Name	Date modified	Type	Size		
conf	31-01-2025 11:57	File folder			
db	31-01-2025 14:48	File folder			
hooks	31-01-2025 11:57	File folder			
locks	31-01-2025 11:57	File folder			
format	31-01-2025 11:57	File	1 KB		
README	31-01-2025 11:57	Text Document	1 KB		

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

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

11. Verify the changes using svn log command

12. Checkout the repository to work locally

```

bhargava@23372bc849b55ff:~$ mkdir /home/bhargava/my-working-copy
bhargava@23372bc849b55ff:~$ cd /home/bhargava/my-working-copy
bhargava@23372bc849b55ff:~/my-working-copy$ svn checkout file:///home/bhargava/my-svn-repo/trunk /home/bhargava/my-working-copy
Checked out revision 1.
bhargava@23372bc849b55ff:~/my-working-copy$ echo "This is a test case file" > test-file.txt
bhargava@23372bc849b55ff:~/my-working-copy$ svn add test-file.txt
A
test-file.txt
bhargava@23372bc849b55ff:~/my-working-copy$ svn commit -m "Added test-file.txt"
Adding test-file.txt
Transmitting file data .done
Committing transaction...
Committed revision 2.
bhargava@23372bc849b55ff:~/my-working-copy$ svn log file:///home/bhargava/my-svn-repo
-----
r2 | bhargava | 2025-01-31 06:36:40 +0000 (Fri, 31 Jan 2025) | 1 line
Added test-file.txt
-----
r1 | bhargava | 2025-01-31 06:30:30 +0000 (Fri, 31 Jan 2025) | 1 line
Initial Structure
-----
bhargava@23372bc849b55ff:~/my-working-copy$ echo "Another change" >> file.txt
bhargava@23372bc849b55ff:~/my-working-copy$ svn add file.txt
A
file.txt
bhargava@23372bc849b55ff:~/my-working-copy$ svn commit -m "Made changes to file.txt"
Adding file.txt
Transmitting file data .done
Committing transaction...
Committed revision 3.

```

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

```

bhargava@23372bc849b55ff:~/my-working-copy$ svn list file:///home/bhargava/my-svn-repo/trunk
file.txt
test-file.txt
bhargava@23372bc849b55ff:~/my-working-copy$ git svn clone file:///home/bhargava/my-svn-repo --stdlayout /home/bhargava/new-git-repo
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:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/bhargava/new-git-repo/.git/
r1 = 31bfea0e80f8fde2f71c01bf2a67a8b28b3e847 (refs/remotes/origin/trunk)
A
test-file.txt
r2 = bc31c090113ddee1657da2a2dae9bc628a16eb7b (refs/remotes/origin/trunk)
A
file.txt
r3 = b32addab1dcb5983e7d51e6856225af5aedb209e (refs/remotes/origin/trunk)
Checked out HEAD:
file:///home/bhargava/my-svn-repo/trunk r3
bhargava@23372bc849b55ff:~/my-working-copy$

```

↑ > Linux > Ubuntu > home > bhargava >					
	Name	Date modified	Type	Size	
op	↑				
loads	↑				
ments	↑				
es	↑				
Disk (D:)	.cache	21-01-2025 10:28	File folder		
ares	.landscape	21-01-2025 10:28	File folder		
List	.local	21-01-2025 12:46	File folder		
ve	.ssh	23-01-2025 11:56	File folder		
...	.subversion	31-01-2025 11:07	File folder		
	bhargav-git-repo	31-01-2025 11:54	File folder		
	my-svn-repo	31-01-2025 11:57	File folder		
	my-working-copy	31-01-2025 12:09	File folder		
	new-git-repo	31-01-2025 14:50	File folder		
	website	23-01-2025 12:15	File folder		

> Linux > Ubuntu > home > bhargava > new-git-repo >					
	Name	Date modified	Type	Size	
↑	↑				
↑	.git	31-01-2025 14:50	File folder		
↑	file	31-01-2025 14:50	Text Document	1 KB	
↑	test-file	31-01-2025 14:50	Text Document	1 KB	
D:)					