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CASE STUDY: MIGRATE FROM SUBVERSION (SVN) TO GIT

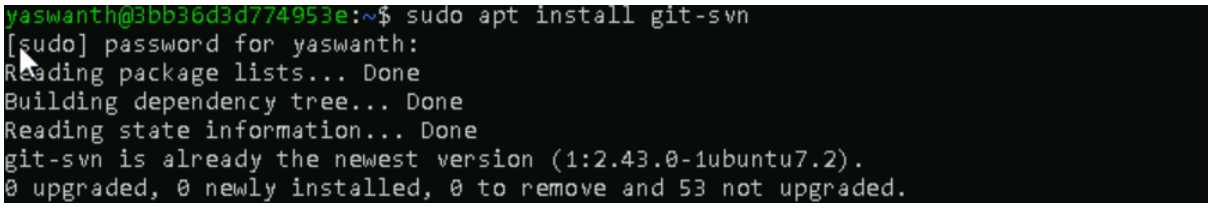
1) Check your current working directory

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

Git

Subversion (SVN)

Git-SVN



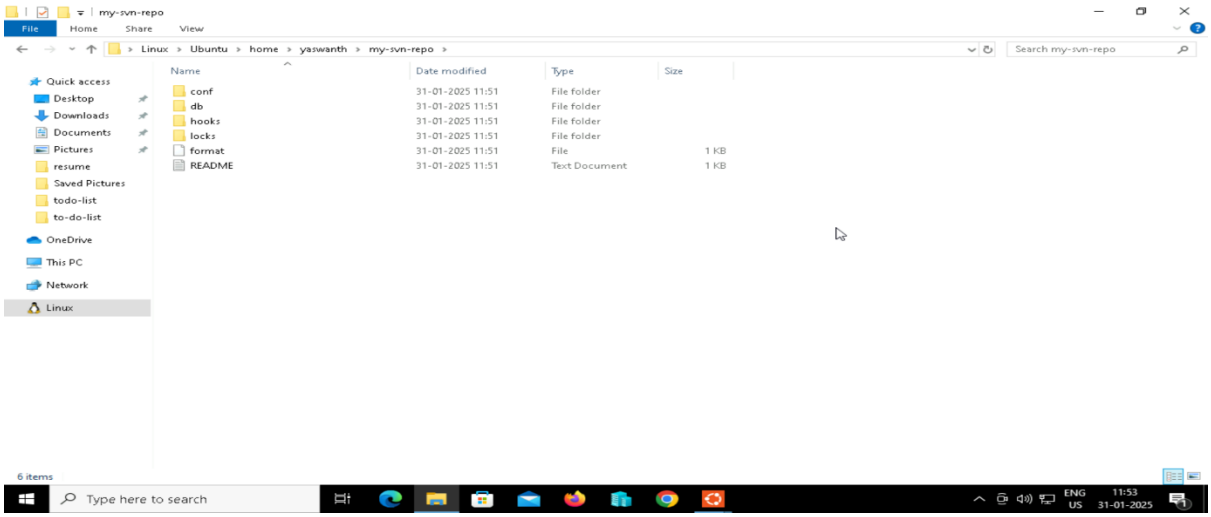
3) Create an empty directory for your new Git repository and initialize it

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

5) Create a SVN repository and repository structure

```
yaswanth@3bb36d3d774953e:~/new-git-repo$ svnadmin create my-svn-repo
svnadmin: E165002: '/home/yaswanth/new-git-repo/my-svn-repo' is an existing repository
```

```
karanamteja@334a7a24d06950c:~$ svn mkdir file:///home/karanamteja/my-svn-repo
/trunk file:///home/karanamteja/my-svn-repo/branches file:///home/karanamteja
/my-svn-repo/tags -m "Initial structure"
Committing transaction...
Committed revision 1.
```

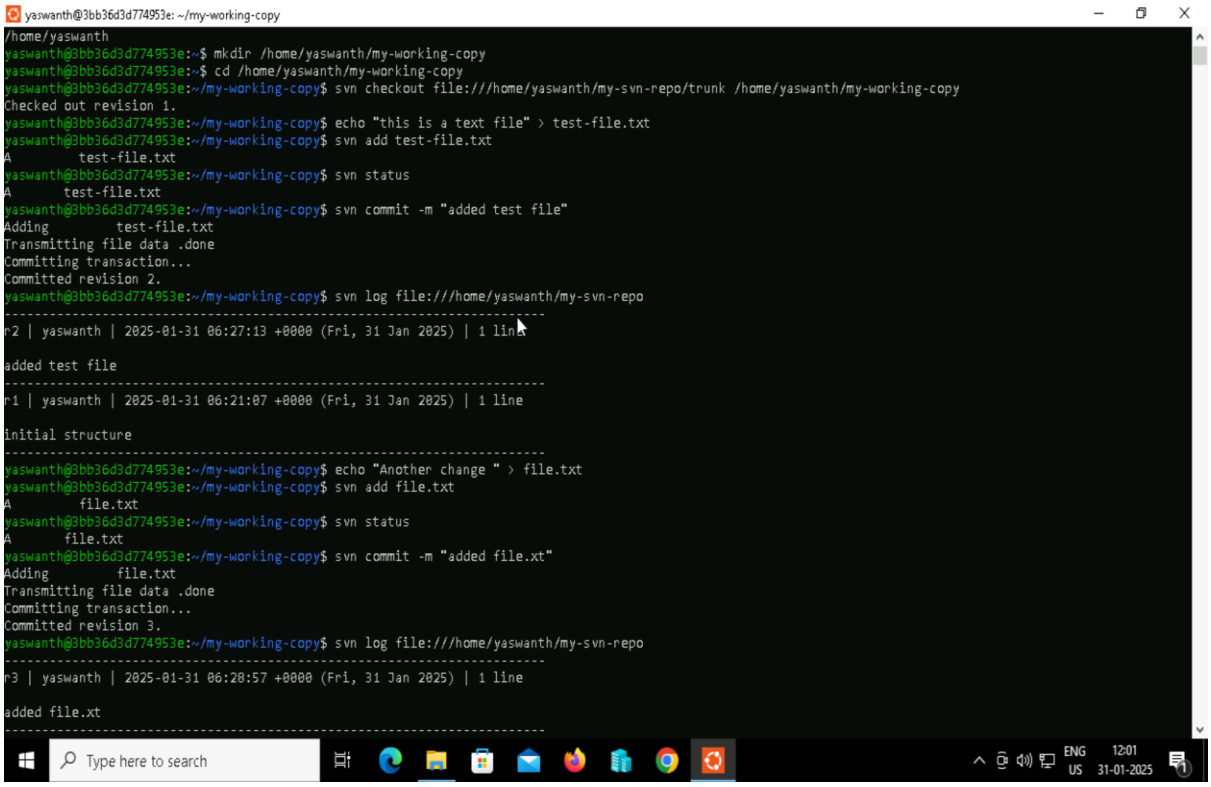


6) Create a test directory called **my-working-copy** and add files like **test-file.txt** and **file.txt.**

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

8)Verify the changes using svn log command

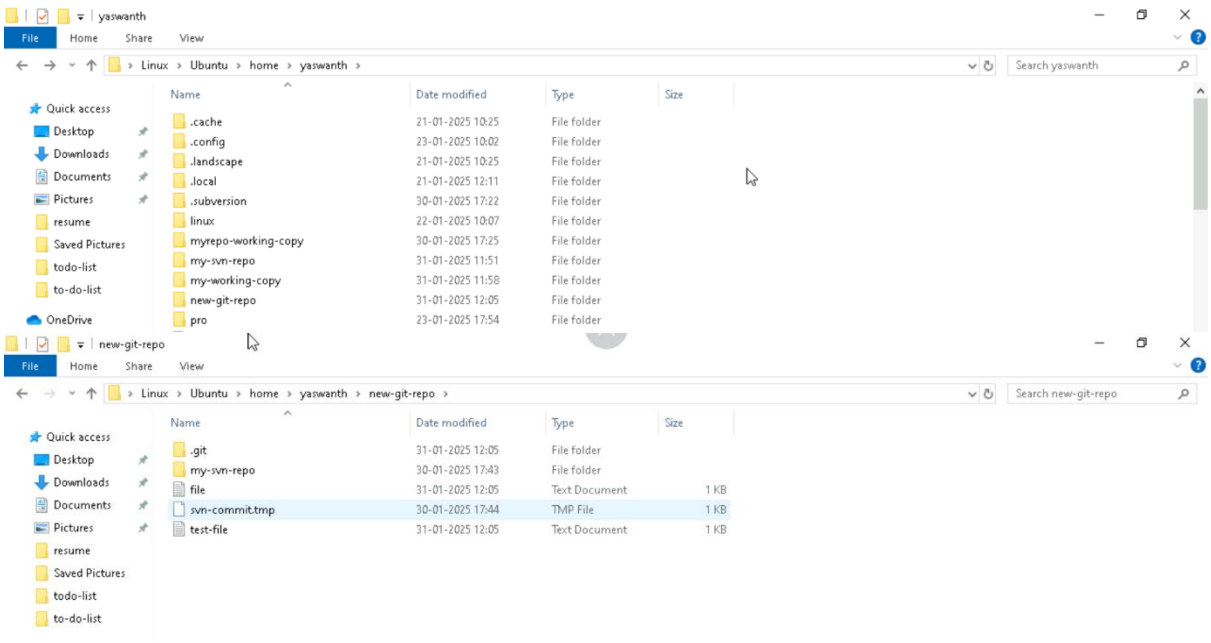
9)Checkout the repository to work locally



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

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

```
yaswanth@3bb36d3d774953e:~$ git svn clone file:////home/yaswanth/my-svn-repo --stdlayout /home/yaswanth/new-git-repo
r1 = 9dea33bc22750144112ada6a0e25c0049bfeaf0f (refs/remotes/origin/trunk)
       A       test-file.txt
r2 = ae5c6c3b3e712c8de5d2687a32fb1e427210e024 (refs/remotes/origin/trunk)
       A       file.txt
r3 = b304d03d984685e32d88ec6a5c08789ddb4ccdc1 (refs/remotes/origin/trunk)
Checked out HEAD:
  file:///home/yaswanth/my-svn-repo/trunk r3
yaswanth@3bb36d3d774953e:~$
```



12) PUSHING FROM LOCAL REPO TO GIT :

```
vaswanth@3bb36d3d77:~/my-working-copy$ 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/arjun/my-working-copy/.git/
vaswanth@3bb36d3d77:~/my-working-copy$ git add .
```


```
vaswanth@3bb36d3d77:~/my-working-copy$ 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>
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hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/arjun/my-working-copy/.git/
vaswanth@3bb36d3d77:~/my-working-copy$ git add .
```
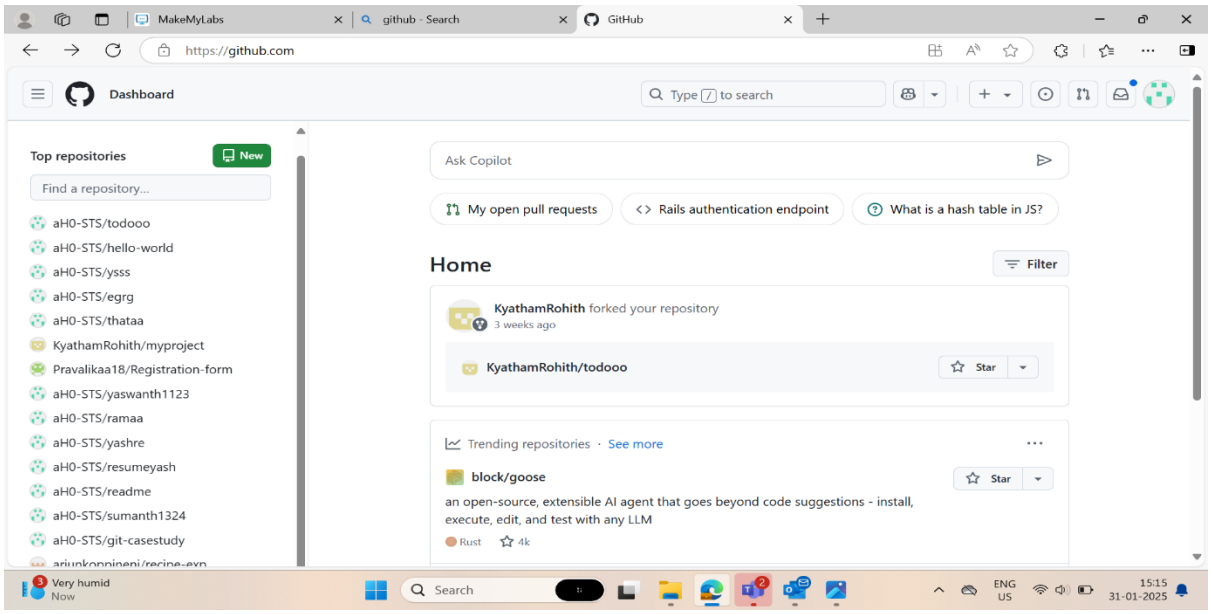
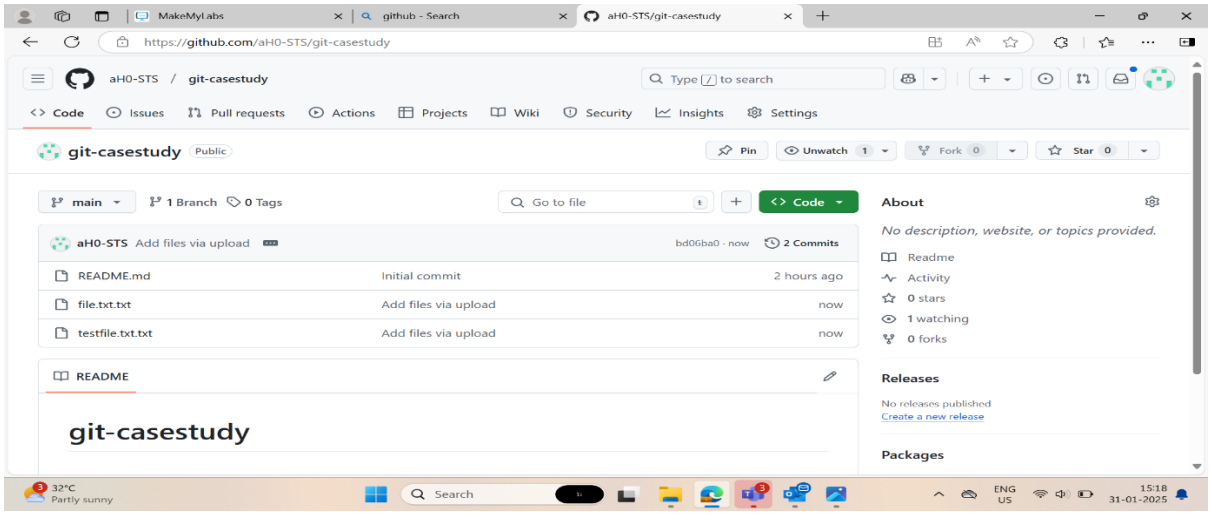


```
vaswanth@3bb36d3d77my-working-copy$ git remote add origin https://github.com/arjunkoppineni/svn-repo.git
vaswanth@3bb36d3d77my-working-copy$ git commit -m "first commit"
[master (root-commit) fb869b4] first commit
 Committer: Arjun <arjun@66c459cb7f2a51a.>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

 8 files changed, 6 insertions(+)
 create mode 100644 .svn/entries
 create mode 100644 .svn/format
 create mode 100644 .svn/pristine/20/202712ad248cc7617ffdcc6991358bf98debcb25.svn-base
 create mode 100644 .svn/pristine/9a/9a58f5559ce5f062592e7f1664c0bedc0d85b842.svn-base
 create mode 100644 .svn/wc.db
 create mode 100644 .svn/wc.db-journal
 create mode 100644 file.txt
 create mode 100644 test-file.txt
```

```
vaswanth@3bb36d3d77:~/my-working-copy$ git remote set-url origin https://arjunkoppineni:ghp_97hlBIoOjLdu0vzObPIwHmsr7GdjdJ3FcY2w@github.com/arjunkoppineni/
svn-repo.git
vaswanth@3bb36d3d77:~/my-working-copy$ git push origin master
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 4 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (11/11), 3.87 KiB | 1.29 MiB/s, done.
Total 11 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/arjunkoppineni/svn-repo.git
 * [new branch]      master -> master
vaswanth@3bb36d3d77:~/my-working-copy$
```

13) After pushing the local to git then go to the remote repository check for the repo



14) Then verify for the files we pushed from svn to git then git to remote repository :