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CASE STUDY

- 1) Check your current working directory

```
rohith1305@e1d77021d9b0504: ~/my-working-copy  
rohith1305@e1d77021d9b0504:~$ pwd  
/home/rohith1305
```

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

Git

Subversion (SVN)

Git-svn

```
rohith1305@e1d77021d9b0504:~$ sudo apt-get install git-svn  
[sudo] password for rohith1305:  
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 41 not upgraded.  
rohith1305@e1d77021d9b0504:~$ ls  
authors-transform.txt  my-svn-repo  my-working-copy  myrepo-working-copy  new  new-repo  splitstring  
rohith1305@e1d77021d9b0504:~$ cd /home  
rohith1305@e1d77021d9b0504:/home$ ls
```

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

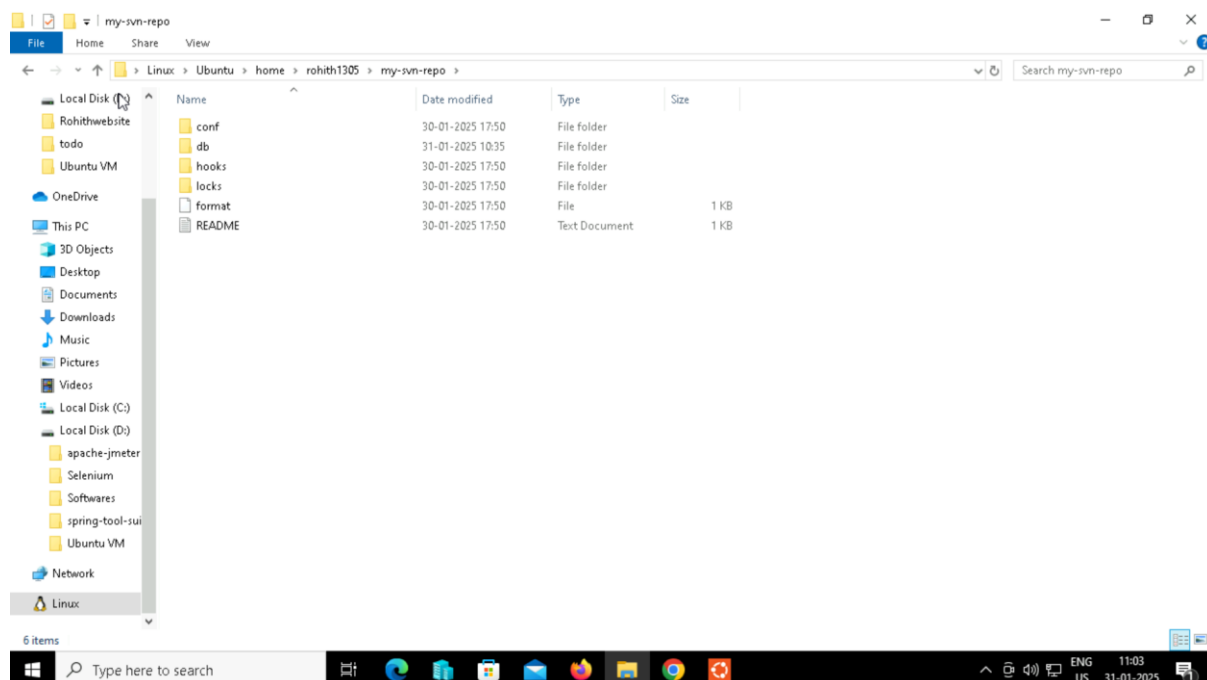
```
rohith1305@e1d77021d9b0504:~/new-repo$ git init  
Reinitialized existing Git repository in /home/rohith1305/new-repo/.  
rohith1305@e1d77021d9b0504:~/new-repo$ cd
```

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

```
rohith1305@eid77021d9b0504:~$ 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 41 not upgraded.
rohith1305@eid77021d9b0504:~$ ls
```

5) Create a SVN repository and repository structure

```
rohith1305@eid77021d9b0504:~$ svnadmin create my-svn-repo
svnadmin: E165002: '/home/rohith1305/my-svn-repo' is an existing repository
rohith1305@eid77021d9b0504:~$ svn mkdir file:///home/rohith1305/my-svn-repo/trunk file:///home/rohith1305/my-svn-repo/branches -m "initial"
svn: E160020: File already exists: filesystem '4575a3af-e1b8-4fa0-9c8d-1ffaab33ec13', transaction '5-5', path '/branches'
```



Name	Date modified	Type	Size
conf	30-01-2025 17:50	File folder	
db	31-01-2025 10:35	File folder	
hooks	30-01-2025 17:50	File folder	
locks	30-01-2025 17:50	File folder	
format	30-01-2025 17:50	File	1 KB
README	30-01-2025 17:50	Text Document	1 KB

- 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**

```

rohith1305@e1d77021d9b0504: ~
svn: warning: W150002: '/home/rohith1305/my-working-copy/file.txt' is already under version control
svn: E200009: Could not add all targets because some targets are already versioned
svn: E200009: Illegal target for the requested operation
rohith1305@e1d77021d9b0504:~/my-working-copy$ svn commit -m "changes did"
Sending          file.txt
Transmitting file data .done
Committing transaction...
Committed revision 6.
rohith1305@e1d77021d9b0504:~/my-working-copy$ svn import /home/rohith1305/my-working-copy file:///home/rohith1305/my-svn-repo/trunk -m "inital commit"
\Skipped '.svn/.svn'
svn: E160020: File already exists: filesystem '4575a3af-e1b8-4fa0-9c8d-1ffaab33ec13', transaction '6-7', path '/trunk/file.txt'
rohith1305@e1d77021d9b0504:~/my-working-copy$ cd
rohith1305@e1d77021d9b0504:~$ svn import /home/rohith1305/my-working-copy file:///home/rohith1305/my-svn-repo/trunk -m "inital commit"
Skipped 'my-working-copy/.svn/.svn'
svn: E160020: File already exists: filesystem '4575a3af-e1b8-4fa0-9c8d-1ffaab33ec13', transaction '6-8', path '/trunk/file.txt'
rohith1305@e1d77021d9b0504:~$ git svn clone file:///home/rohith1305/my-svn-repo --stdlayout /home/rohith1305/new-repo
mkdir /home/rohith1305: Permission denied at /usr/lib/git-core/git-svn line 493.

rohith1305@e1d77021d9b0504:~$ sudo git svn clone file:///home/rohith1305/my-svn-repo --stdlayout /home/rohith1305/new-repo
[sudo] password for rohith1305:

```

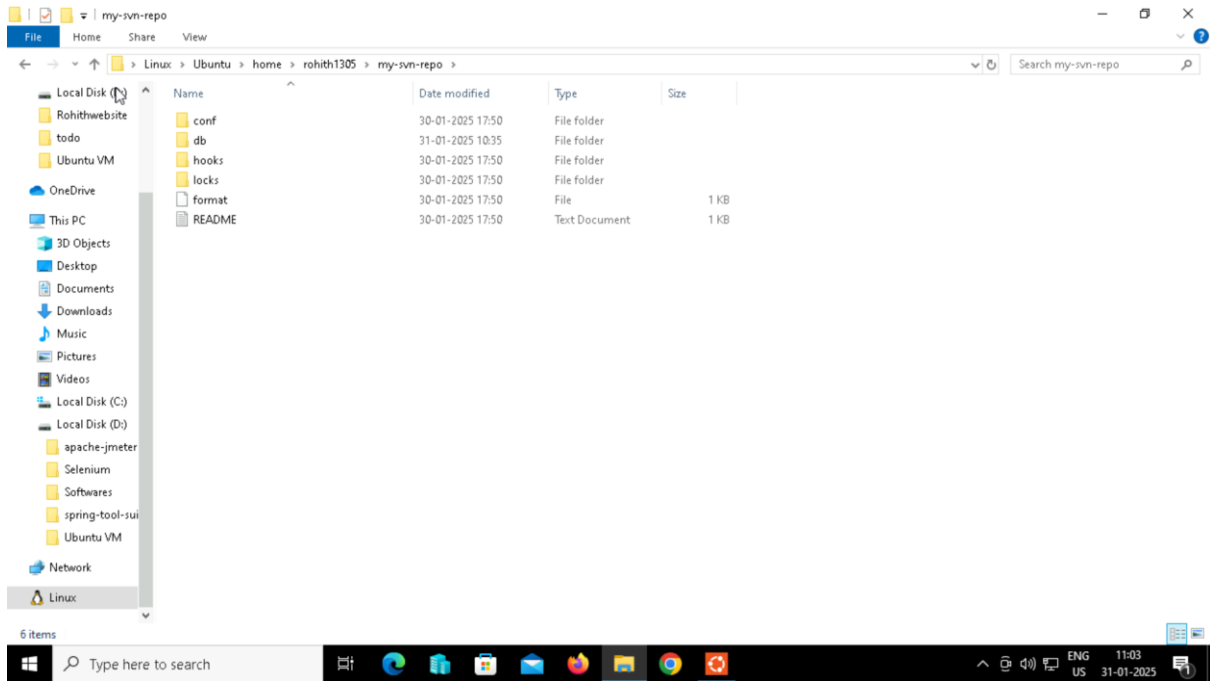
10) Import the files from test directory to your svn repository and verify the changes

```

rohith1305@e1d77021d9b0504: ~
Committing transaction...
Committed revision 6.
rohith1305@e1d77021d9b0504:~/my-working-copy$ svn import /home/rohith1305/my-working-copy file:///home/rohith1305/my-svn-repo/trunk -m "inital commit"
\Skipped '.svn/.svn'
svn: E160020: File already exists: filesystem '4575a3af-e1b8-4fa0-9c8d-1ffaab33ec13', transaction '6-7', path '/trunk/file.txt'
rohith1305@e1d77021d9b0504:~/my-working-copy$ cd
rohith1305@e1d77021d9b0504:~$ svn import /home/rohith1305/my-working-copy file:///home/rohith1305/my-svn-repo/trunk -m "inital commit"
Skipped 'my-working-copy/.svn/.svn'
svn: E160020: File already exists: filesystem '4575a3af-e1b8-4fa0-9c8d-1ffaab33ec13', transaction '6-8', path '/trunk/file.txt'
rohith1305@e1d77021d9b0504:~$ git svn clone file:///home/rohith1305/my-svn-repo --stdlayout /home/rohith1305/new-repo
mkdir /home/rohith1305: Permission denied at /usr/lib/git-core/git-svn line 493.

```

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



```
rohith1305@e1d77021d9b0504:~$ sudo git svn clone file:///home/rohith1305/my-svn-repo --stdlayout /home/rohith1305/new-repo
[sudo] password for rohith1305:
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/rohith1305/new-repo/.git/
r1 = 5affe65c6cfe899c36218feb0c55f5be6546c8f7b (refs/remotes/origin/trunk)
A   text-file.txt
r4 = 8b163a78c8389c3628e62f12d364221925a967ac (refs/remotes/origin/trunk)
A   file.txt
r5 = a936c71b4670863926c953c2df3c58a9363b93f7 (refs/remotes/origin/trunk)
M   file.txt
r6 = e885a5114ab40f7b194e01cbd595893630474a4c (refs/remotes/origin/trunk)
Checked out HEAD:
file:///home/rohith1305/my-svn-repo/trunk r6
```