CASE STUDY

1. **Check your current working directory**
2. **Before Starting the migration ensure you have the following installed: GIT**

   GIT SUBVERSION(SVN)

   GIT-SVN

3. **Create an empty directory for your new git repository and initialize it:**

4. **Install subversion to create a svn repository**

5. **Create a svn repository and repository structure**

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

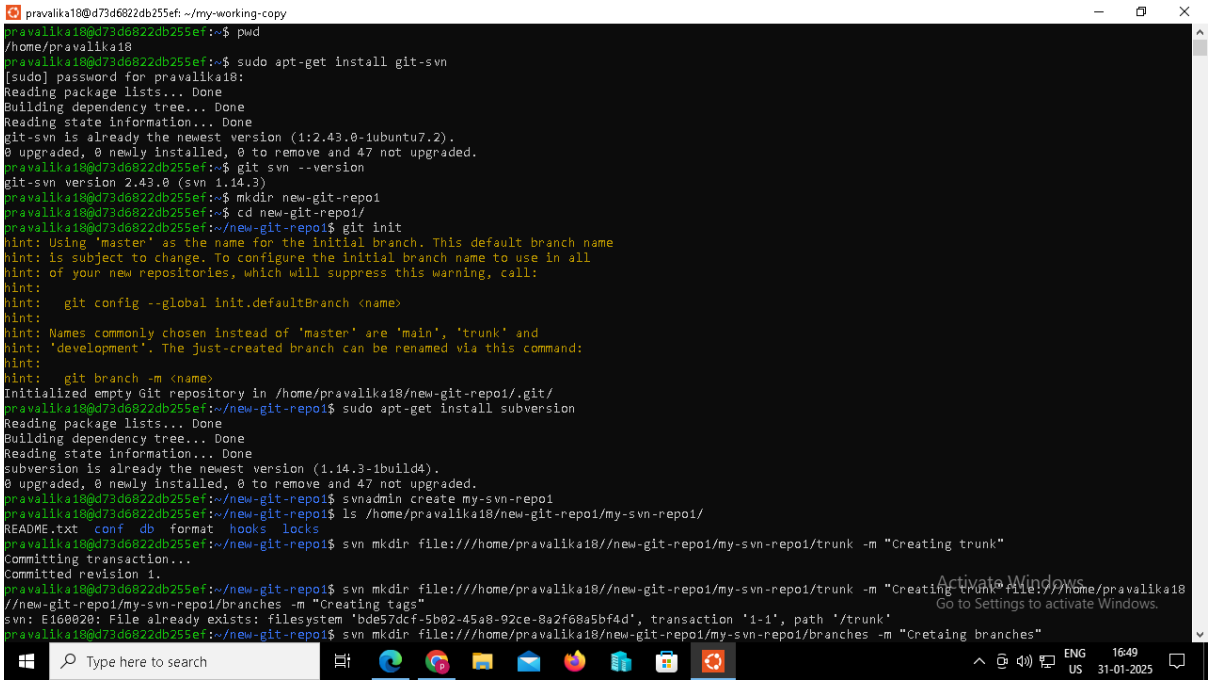
7. **Add the new files to svn and commit the changes using svn add and svn commit commands.**

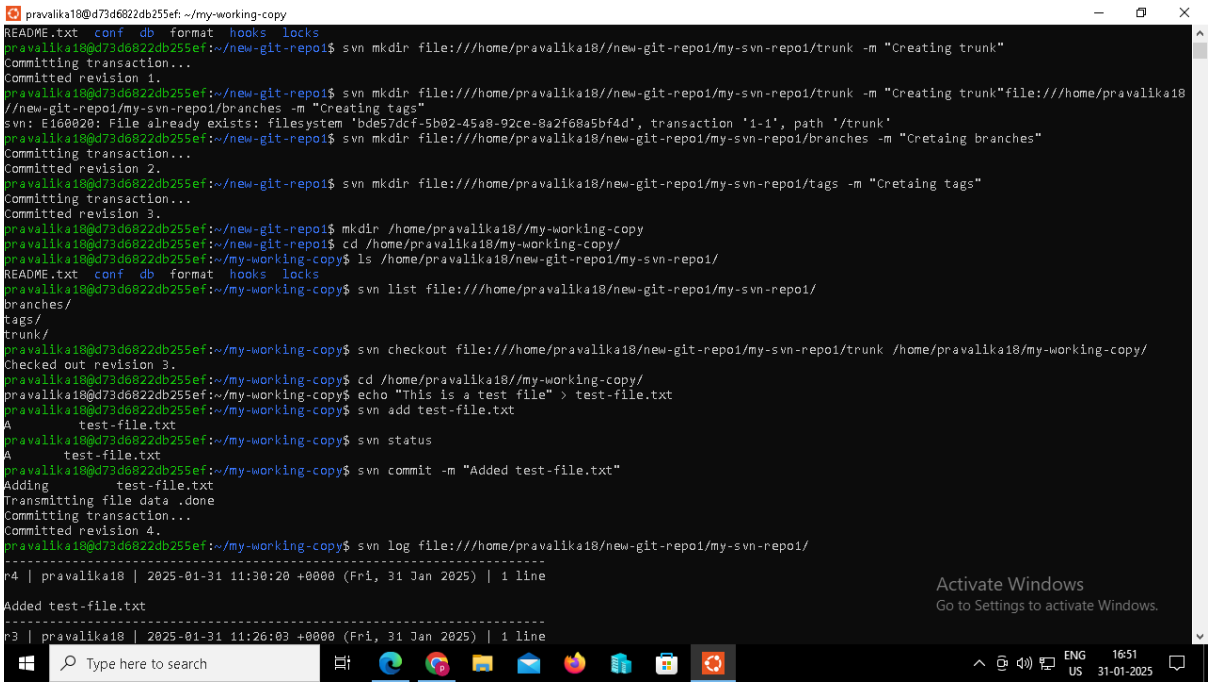
8. **Verify the changes using svn log command 9. Checkout the repository to work locally**

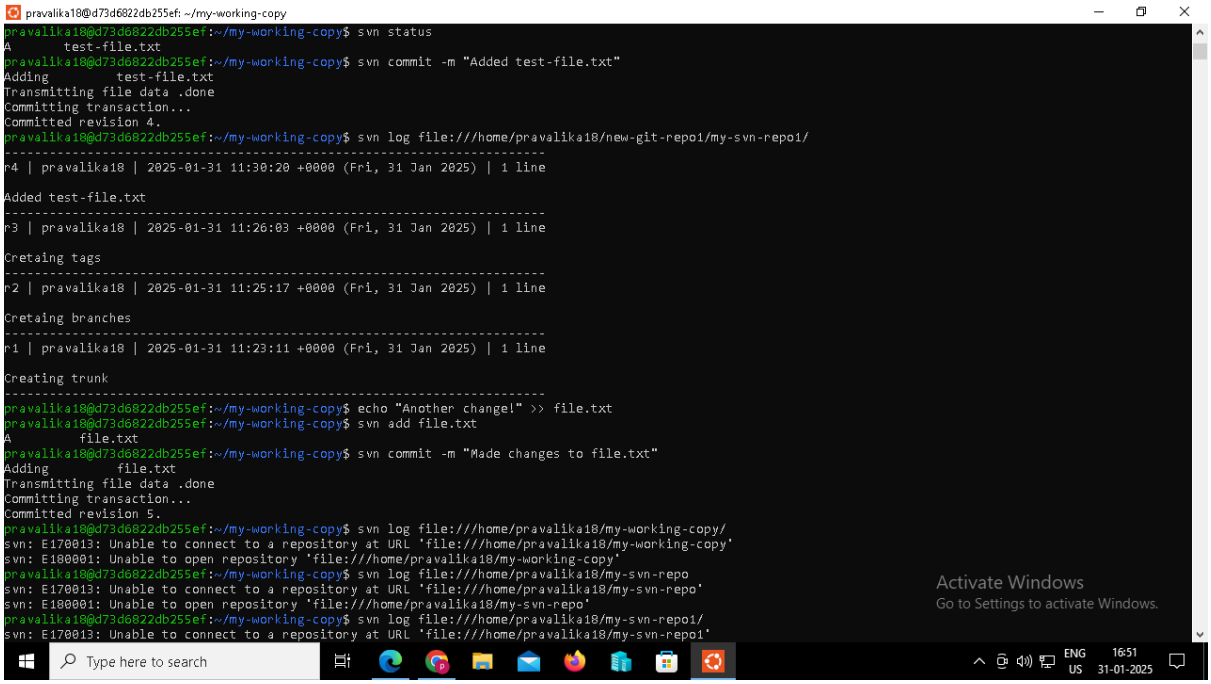
9. **Checkout the repository to work locally**

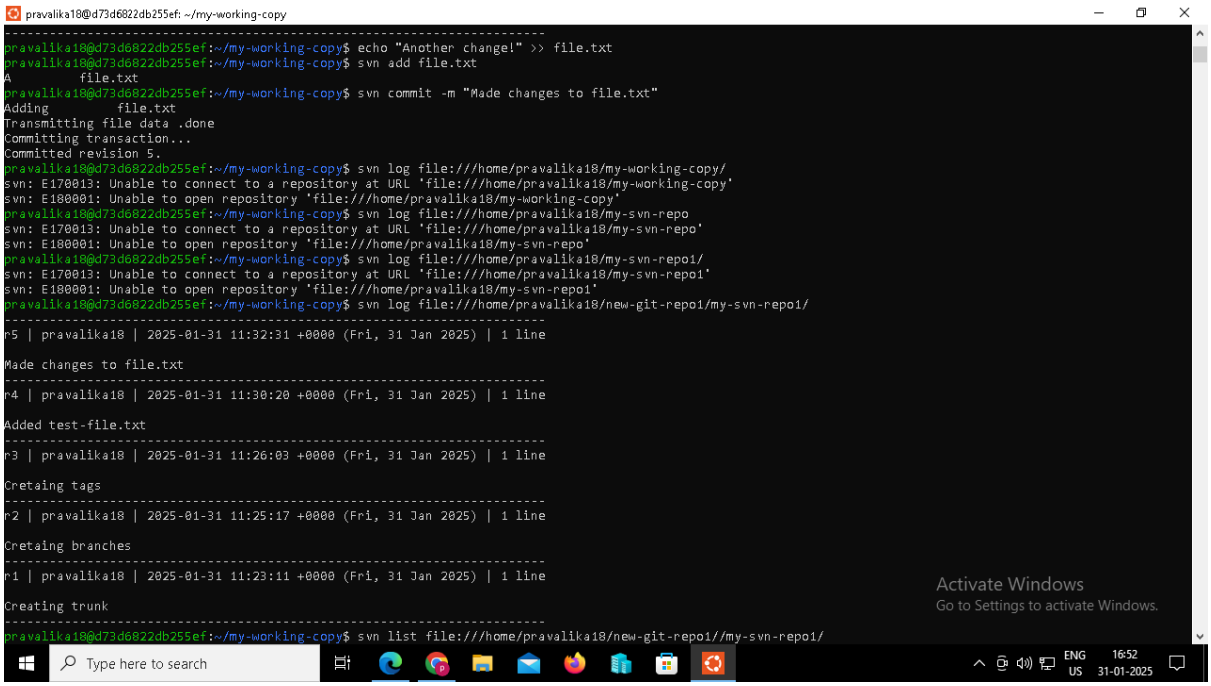
10. **Import the files from test directiory to your svn repository and verify the changes.**

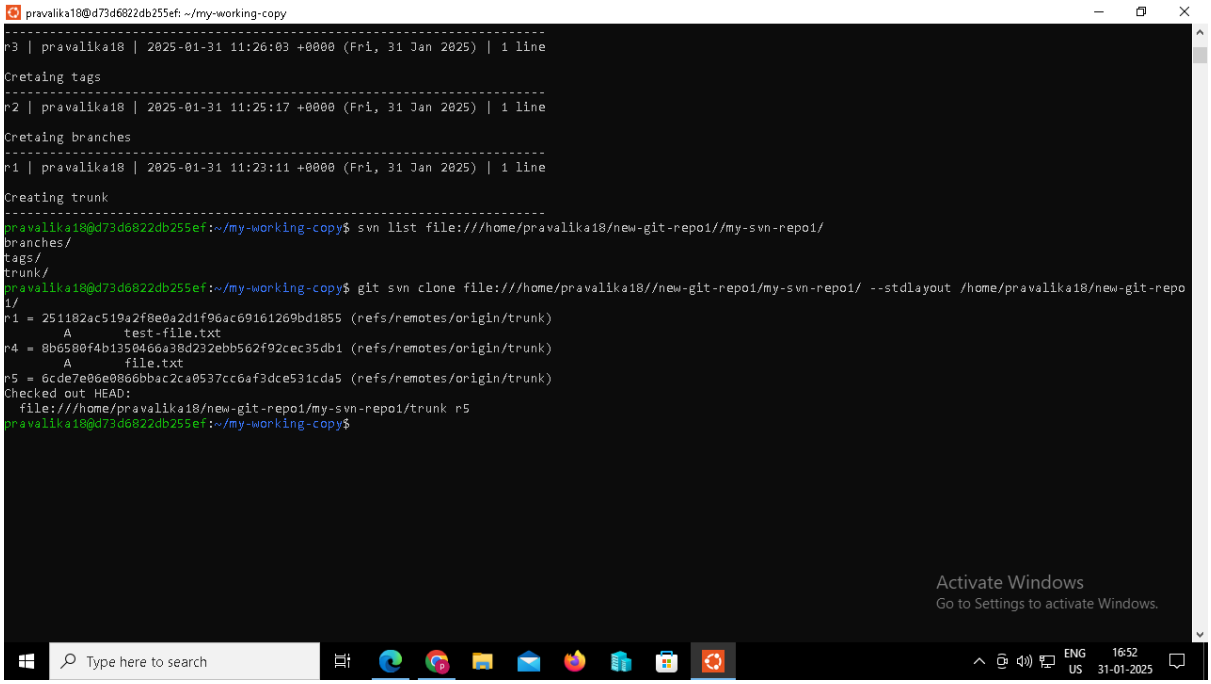
11. **Now you will use svn-git to clone the svn repository into your git repository new-git-repo**

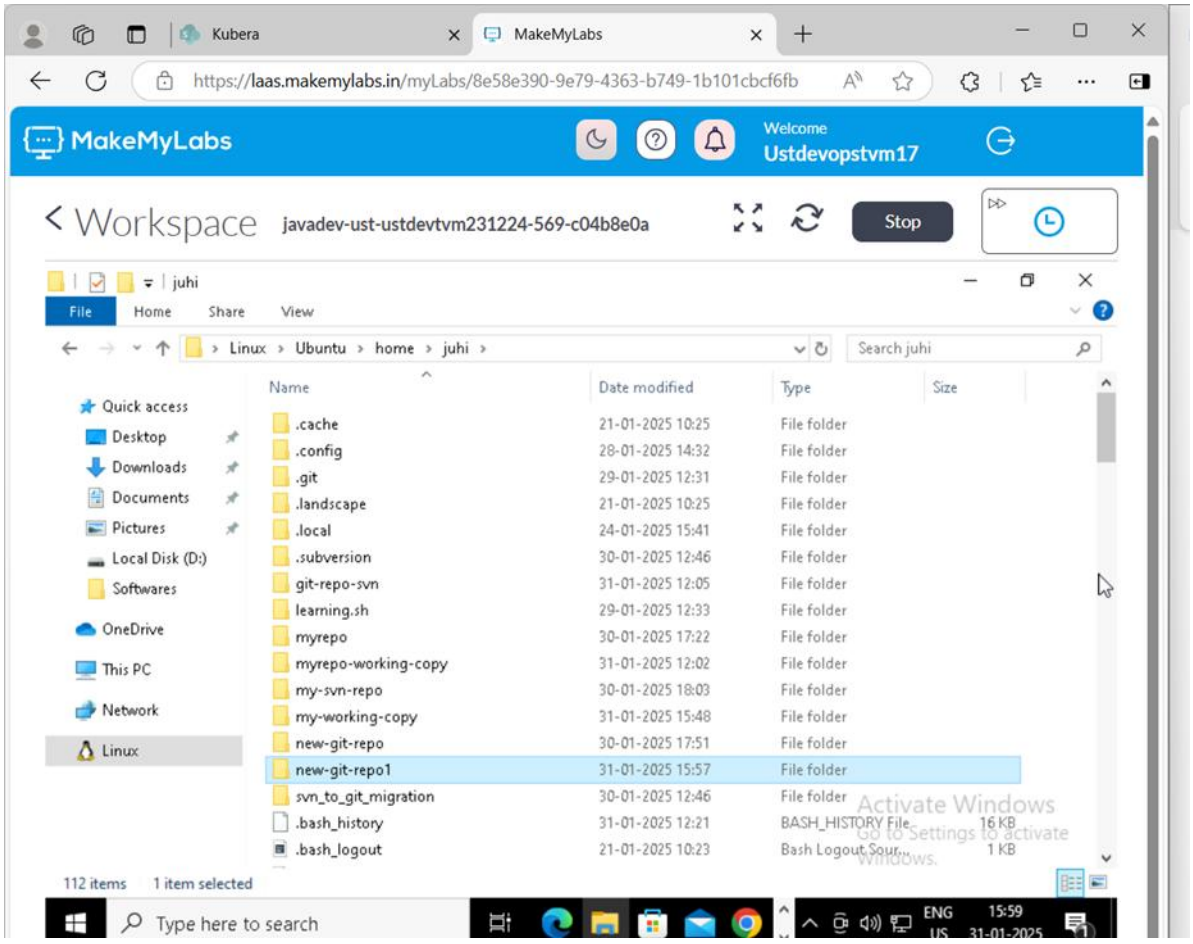

pravalika18@d73d6822db255ef: ~/my-working-copy
pravalika18@d73d6822db255ef:~$ pwd
/home/pravalika18
pravalika18@d73d6822db255ef:~$ sudo apt-get install git-svn
[sudo] password for pravalika18:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git-svn is already the newest version (1:2.43.0-1ubuntu7.2).
0 upgraded, 0 newly installed, 0 to remove and 47 not upgraded.
pravalika18@d73d6822db255ef:~$ git svn --version
git-svn version 2.43.0 (svn 1.14.3)
pravalika18@d73d6822db255ef:~$ mkdir new-git-repo1
pravalika18@d73d6822db255ef:~$ cd new-git-repo1/
pravalika18@d73d6822db255ef:~/new-git-repo1$ 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/pravalika18/new-git-repo1/.git/
pravalika18@d73d6822db255ef:~/new-git-repo1$ 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 47 not upgraded.
pravalika18@d73d6822db255ef:~/new-git-repo1$ svnadmin create my-svn-repo1
pravalika18@d73d6822db255ef:~/new-git-repo1$ ls /home/pravalika18/new-git-repo1/my-svn-repo1/
README.txt conf db format hooks locks
pravalika18@d73d6822db255ef:~/new-git-repo1$ svn mkdir file:///home/pravalika18//new-git-repo1/my-svn-repo1/trunk -m "Creating trunk"
Committing transaction...
Committed revision 1.
pravalika18@d73d6822db255ef:~/new-git-repo1$ svn mkdir file:///home/pravalika18//new-git-repo1/my-svn-repo1/trunk -m "Creating trunk"file:///home/pravalika18
//new-git-repo1/my-svn-repo1/branches -m "Creating tags"
svn: E160020: File already exists: filesystem 'bde57dcf-5b02-45a8-92ce-8a2f68a5bf4d', transaction '1-1', path '/trunk'
pravalika18@d73d6822db255ef:~/new-git-repo1$ svn mkdir file:///home/pravalika18/new-git-repo1/my-svn-repo1/branches -m "Cretaing branches"
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
US
16:49
31-01-2025

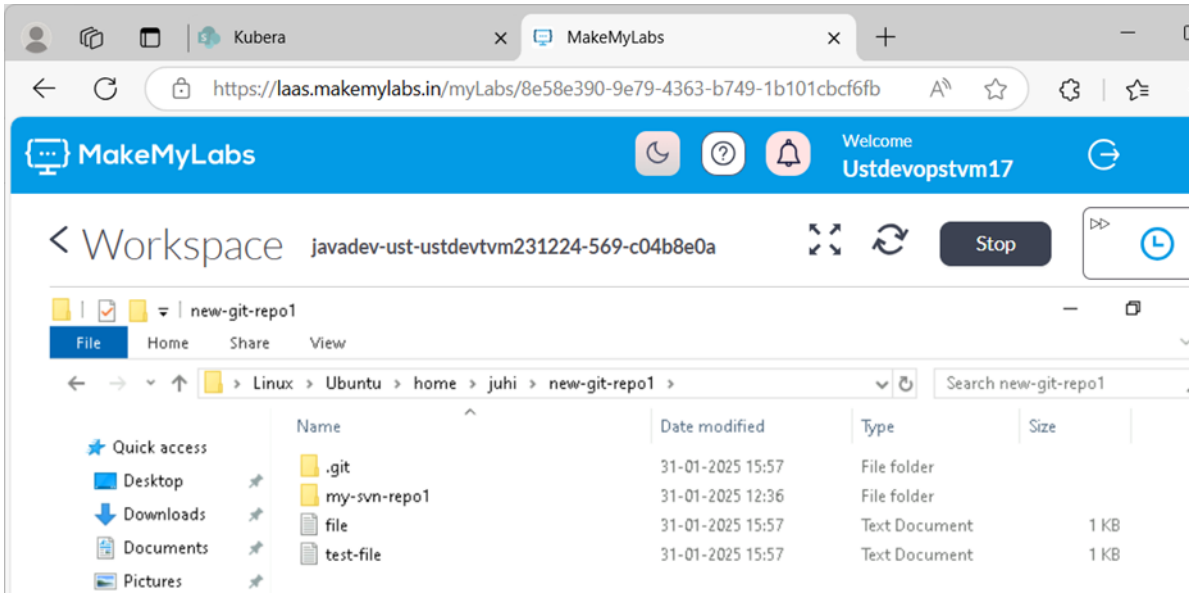

pravalika18@d73d6822db255ef: ~/my-working-copy
README.txt conf db format hooks locks
pravalika18@d73d6822db255ef:~/new-git-repo1$ svn mkdir file:///home/pravalika18//new-git-repo1/my-svn-repo1/trunk -m "Creating trunk"
Committing transaction...
Committed revision 1.
pravalika18@d73d6822db255ef:~/new-git-repo1$ svn mkdir file:///home/pravalika18//new-git-repo1/my-svn-repo1/trunk -m "Creating trunk"file:///home/pravalika18
//new-git-repo1/my-svn-repo1/branches -m "Creating tags"
svn: E160020: File already exists: filesystem 'bde57dcf-5b02-45a8-92ce-8a2f68a5bf4d', transaction '1-1', path '/trunk'
pravalika18@d73d6822db255ef:~/new-git-repo1$ svn mkdir file:///home/pravalika18/new-git-repo1/my-svn-repo1/branches -m "Cretaing branches"
Committing transaction...
Committed revision 2.
pravalika18@d73d6822db255ef:~/new-git-repo1$ svn mkdir file:///home/pravalika18/new-git-repo1/my-svn-repo1/tags -m "Cretaing tags"
Committing transaction...
Committed revision 3.
pravalika18@d73d6822db255ef:~/new-git-repo1$ mkdir /home/pravalika18//my-working-copy
pravalika18@d73d6822db255ef:~/new-git-repo1$ cd /home/pravalika18/my-working-copy/
pravalika18@d73d6822db255ef:~/my-working-copy$ ls /home/pravalika18/new-git-repo1/my-svn-repo1/
README.txt conf db format hooks locks
pravalika18@d73d6822db255ef:~/my-working-copy$ svn list file:///home/pravalika18/new-git-repo1/my-svn-repo1/
branches/
tags/
trunk/
pravalika18@d73d6822db255ef:~/my-working-copy$ svn checkout file:///home/pravalika18/new-git-repo1/my-svn-repo1/trunk /home/pravalika18/my-working-copy/
Checked out revision 3.
pravalika18@d73d6822db255ef:~/my-working-copy$ cd /home/pravalika18//my-working-copy/
pravalika18@d73d6822db255ef:~/my-working-copy$ echo "This is a test file" > test-file.txt
pravalika18@d73d6822db255ef:~/my-working-copy$ svn add test-file.txt
A test-file.txt
pravalika18@d73d6822db255ef:~/my-working-copy$ svn status
A test-file.txt
pravalika18@d73d6822db255ef:~/my-working-copy$ svn commit -m "Added test-file.txt"
Adding test-file.txt
Transmitting file data .done
Committing transaction...
Committed revision 4.
pravalika18@d73d6822db255ef:~/my-working-copy$ svn log file:///home/pravalika18/new-git-repo1/my-svn-repo1/
----
r4 | pravalika18 | 2025-01-31 11:30:20 +0000 (Fri, 31 Jan 2025) | 1 line
Added test-file.txt
----
r3 | pravalika18 | 2025-01-31 11:26:03 +0000 (Fri, 31 Jan 2025) | 1 line
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
US
16:51
31-01-2025


pravalika18@d73d6822db255ef: ~/my-working-copy
pravalika18@d73d6822db255ef:~/my-working-copy$ svn status
A   test-file.txt
pravalika18@d73d6822db255ef:~/my-working-copy$ svn commit -m "Added test-file.txt"
Adding   test-file.txt
Transmitting file data .done
Committing transaction...
Committed revision 4.
pravalika18@d73d6822db255ef:~/my-working-copy$ svn log file:///home/pravalika18/new-git-repo1/my-svn-repo1/
r4 | pravalika18 | 2025-01-31 11:30:20 +0000 (Fri, 31 Jan 2025) | 1 line
Added test-file.txt
r3 | pravalika18 | 2025-01-31 11:26:03 +0000 (Fri, 31 Jan 2025) | 1 line
Cretaing tags
r2 | pravalika18 | 2025-01-31 11:25:17 +0000 (Fri, 31 Jan 2025) | 1 line
Cretaing branches
r1 | pravalika18 | 2025-01-31 11:23:11 +0000 (Fri, 31 Jan 2025) | 1 line
Creating trunk
pravalika18@d73d6822db255ef:~/my-working-copy$ echo "Another change!" >> file.txt
pravalika18@d73d6822db255ef:~/my-working-copy$ svn add file.txt
A   file.txt
pravalika18@d73d6822db255ef:~/my-working-copy$ svn commit -m "Made changes to file.txt"
Adding   file.txt
Transmitting file data .done
Committing transaction...
Committed revision 5.
pravalika18@d73d6822db255ef:~/my-working-copy$ svn log file:///home/pravalika18/my-working-copy/
svn: E170013: Unable to connect to a repository at URL 'file:///home/pravalika18/my-working-copy'
svn: E180001: Unable to open repository 'file:///home/pravalika18/my-working-copy'
pravalika18@d73d6822db255ef:~/my-working-copy$ svn log file:///home/pravalika18/my-svn-repo
svn: E170013: Unable to connect to a repository at URL 'file:///home/pravalika18/my-svn-repo'
svn: E180001: Unable to open repository 'file:///home/pravalika18/my-svn-repo'
pravalika18@d73d6822db255ef:~/my-working-copy$ svn log file:///home/pravalika18/my-svn-repo1/
svn: E170013: Unable to connect to a repository at URL 'file:///home/pravalika18/my-svn-repo1'
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
US
16:51
31-01-2025


pravalika18@d73d6822db255ef: ~/my-working-copy
pravalika18@d73d6822db255ef:~/my-working-copy$ echo "Another change!" >> file.txt
pravalika18@d73d6822db255ef:~/my-working-copy$ svn add file.txt
A   file.txt
pravalika18@d73d6822db255ef:~/my-working-copy$ svn commit -m "Made changes to file.txt"
Adding   file.txt
Transmitting file data .done
Committing transaction...
Committed revision 5.
pravalika18@d73d6822db255ef:~/my-working-copy$ svn log file:///home/pravalika18/my-working-copy/
svn: E170013: Unable to connect to a repository at URL 'file:///home/pravalika18/my-working-copy'
svn: E180001: Unable to open repository 'file:///home/pravalika18/my-working-copy'
pravalika18@d73d6822db255ef:~/my-working-copy$ svn log file:///home/pravalika18/my-svn-repo
svn: E170013: Unable to connect to a repository at URL 'file:///home/pravalika18/my-svn-repo'
svn: E180001: Unable to open repository 'file:///home/pravalika18/my-svn-repo'
pravalika18@d73d6822db255ef:~/my-working-copy$ svn log file:///home/pravalika18/my-svn-repo1/
svn: E170013: Unable to connect to a repository at URL 'file:///home/pravalika18/my-svn-repo1'
svn: E180001: Unable to open repository 'file:///home/pravalika18/my-svn-repo1'
pravalika18@d73d6822db255ef:~/my-working-copy$ svn log file:///home/pravalika18/new-git-repo1/my-svn-repo1/
r5 | pravalika18 | 2025-01-31 11:32:31 +0000 (Fri, 31 Jan 2025) | 1 line
Made changes to file.txt
r4 | pravalika18 | 2025-01-31 11:30:20 +0000 (Fri, 31 Jan 2025) | 1 line
Added test-file.txt
r3 | pravalika18 | 2025-01-31 11:26:03 +0000 (Fri, 31 Jan 2025) | 1 line
Cretaing tags
r2 | pravalika18 | 2025-01-31 11:25:17 +0000 (Fri, 31 Jan 2025) | 1 line
Cretaing branches
r1 | pravalika18 | 2025-01-31 11:23:11 +0000 (Fri, 31 Jan 2025) | 1 line
Creating trunk
pravalika18@d73d6822db255ef:~/my-working-copy$ svn list file:///home/pravalika18/new-git-repo1//my-svn-repo1/
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
US
16:52
31-01-2025


pravalika18@d73d6822db255ef: ~/my-working-copy
r3 | pravalika18 | 2025-01-31 11:26:03 +0000 (Fri, 31 Jan 2025) | 1 line
Cretaing tags
r2 | pravalika18 | 2025-01-31 11:25:17 +0000 (Fri, 31 Jan 2025) | 1 line
Cretaing branches
r1 | pravalika18 | 2025-01-31 11:23:11 +0000 (Fri, 31 Jan 2025) | 1 line
Creating trunk
pravalika18@d73d6822db255ef:~/my-working-copy$ svn list file:///home/pravalika18/new-git-repo1//my-svn-repo1/
branches/
tags/
trunk/
pravalika18@d73d6822db255ef:~/my-working-copy$ git svn clone file:///home/pravalika18//new-git-repo1/my-svn-repo1/ --stdlayout /home/pravalika18/new-git-repo1/
r1 = 251182ac519a2f8e0a2d1f96ac69161269bd1855 (refs/remotes/origin/trunk)
A test-file.txt
r4 = 8b6580f4b1350466a38d232ebb562f92cec35db1 (refs/remotes/origin/trunk)
A file.txt
r5 = 6cde7e06e0866bbac2ca0537cc6af3dce531cda5 (refs/remotes/origin/trunk)
Checked out HEAD:
file:///home/pravalika18/new-git-repo1/my-svn-repo1/trunk r5
pravalika18@d73d6822db255ef:~/my-working-copy$
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG US
16:52
31-01-2025


Kubera
MakeMyLabs
https://laas.makemylabs.in/myLabs/8e58e390-9e79-4363-b749-1b101cbcf6fb
MakeMyLabs
Welcome
Ustdevopstvm17
Workspace
javadev-ust-ustdevtvm231224-569-c04b8e0a
Stop
juhi
File
Home
Share
View
Linux › Ubuntu › home › juhi ›
Search juhi
Quick access
Desktop
Downloads
Documents
Pictures
Local Disk (D:)
Softwares
OneDrive
This PC
Network
Linux
Name
Date modified
Type
Size
.cache 21-01-2025 10:25 File folder
.config 28-01-2025 14:32 File folder
.git 29-01-2025 12:31 File folder
.landscape 21-01-2025 10:25 File folder
.local 24-01-2025 15:41 File folder
.subversion 30-01-2025 12:46 File folder
git-repo-svn 31-01-2025 12:05 File folder
learning.sh 29-01-2025 12:33 File folder
myrepo 30-01-2025 17:22 File folder
myrepo-working-copy 31-01-2025 12:02 File folder
my-svn-repo 30-01-2025 18:03 File folder
my-working-copy 31-01-2025 15:48 File folder
new-git-repo 30-01-2025 17:51 File folder
new-git-repo1 31-01-2025 15:57 File folder
svn_to_git_migration 30-01-2025 12:46 File folder
.bash_history 31-01-2025 12:21 BASH_HISTORY File 16 KB
.bash_logout 21-01-2025 10:23 Bash Logout Sour... 1 KB
112 items
1 item selected
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG US
15:59
31-01-2025


Kubera
MakeMyLabs
https://laas.makemylabs.in/myLabs/8e58e390-9e79-4363-b749-1b101cbcf6fb
MakeMyLabs
Welcome
Ustdevopstvm17
Workspace
javadev-ust-ustdevtvm231224-569-c04b8e0a
Stop
new-git-repo1
File
Home
Share
View
Linux › Ubuntu › home › juhi › new-git-repo1 ›
Search new-git-repo1
Quick access
Desktop
Downloads
Documents
Pictures
Name
Date modified
Type
Size
.git
31-01-2025 15:57
File folder
my-svn-repo1
31-01-2025 12:36
File folder
file
31-01-2025 15:57
Text Document
1 KB
test-file
31-01-2025 15:57
Text Document
1 KB