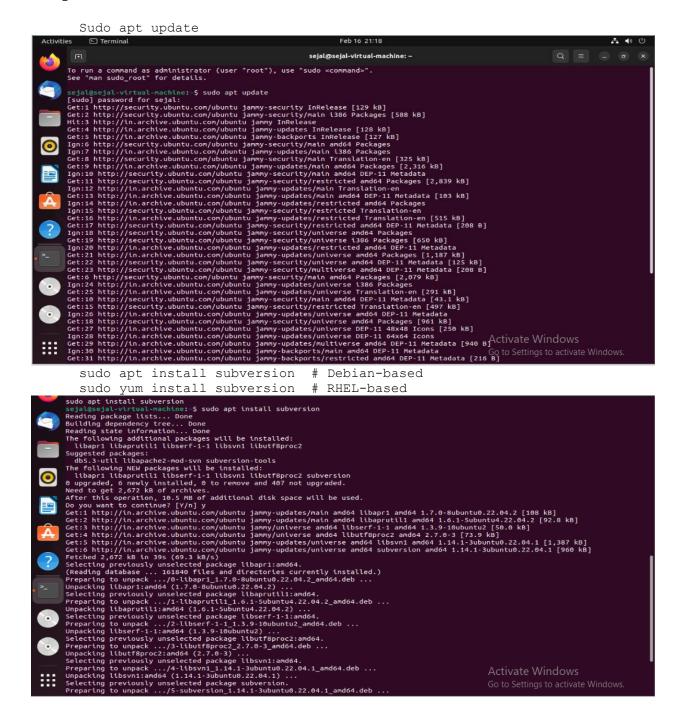
# **Usage of Subversion and Mercurial**

# Subversion (SVN) Commands and Usage

Subversion is a centralized version control system.

### 1. Update and Install SVN



## 2. Create a Repository

SVNadmin create my repo

Activities Terminal Feb 16 21:42

Sejal@sejal-virtual-machine: -/my\_project

Processing triggers for man-db (2.10.2-1) ...
sejal@sejal-virtual-machine:-5 svnadmin create my\_repo
sejal@sejal-virtual-machine:-5 svn checkout file:///path/to/my\_repo my\_project
svi; E170013: Ulable to connect to a repository at URL 'file://oath/to/my\_repo'

### 3. Checkout a Repository

svn checkout file:///path/to/my\_repo my\_project
cd my project

scial@scial-virtual-machine:-/my\_projects cd
scial@scial-virtual-machine:-/my\_projects cd
scial@scial-virtual-machine:-/s svn checkout file:///home/scial/my\_repo my\_project
Checked out revision 1.
scial@scial-virtual-machine:-S cd my\_project

This creates a working copy of the repository in my project.

#### 4. Add and Commit Files

svn add file1.txt

svn commit -m "Added file1.txt"

sejal@sejal-virtual-machine:-S cd my\_project
sejal@sejal-virtual-machine:-/my\_project\$ touch file1.txt
sejal@sejal-virtual-machine:-/my\_project\$ svn add file1.txt

A file1.txt
A file1.txt
Adding file1.txt
Adding file1.txt
Committed gransaction...
Committed revision 2.

 ${\tt svn}\ {\tt add}\ marks\ the\ file\ for\ addition.$ 

Svn commit saves changes to the repository.

### 5. Update Repository

svn update

Committed revision 2.

sejaldsejal-virtual-machine:-/my\_project\$ svn update

Updating '.':

At revision 2.

Sejaldsejal-virtual-machine:-/my\_project\$ svn status

Fetches the latest changes from the repository.

## 6. View Logs

 SVN log

 sejal@sejal-virtual-machine:-/my\_project\$ svn log

 r2 | sejal | 2025-02-16 21:47:07 +0530 (Sun, 16 Feb 2025) | 1 line

 Added file1.txt

 r1 | sejal | 2025-02-16 21:37:05 +0530 (Sun, 16 Feb 2025) | 1 line

 Activate Windows

 Go to Settings to activate Windows.

Displays commit history.

## 7. Remove Files

```
sejal@sejal-virtual-nachine:-/my_project$ svn delete file1.txt

D file1.txt
sejal@sejal-virtual-nachine:-/my_project$ svn commit -m "deleted file1.txt"

Deleting file1.txt
Committing transaction...
Committing transaction...
Sejal@sejal-virtual-nachine:-/my_project$

Go to Settings to activate Windows.
```

Removes the file.

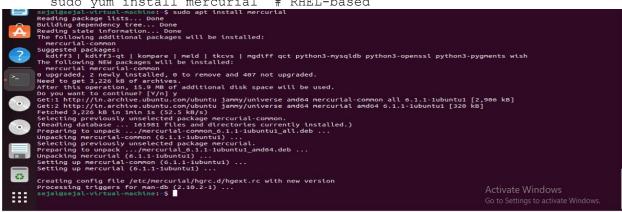
## Mercurial (Hg) Commands and Usage

Mercurial is a distributed version control system.

#### 1. Install Mercurial

- Windows: Install TortoiseHg
- Linux/macOS:

sudo apt install mercurial # Debian-based
sudo yum install mercurial # RHEL-based



### 2. Create a Repository

hg init my\_project



Initializes an empty Mercurial repository.

#### 3. Add and Commit Files

echo "Hello World" > file.txt
hg add file.txt
hg commit -m "Added file.txt"



hg add marks the file for addition.

hg commit saves the changes.

# 4. View Repository Status

Shows uncommitted changes.

## 5. View Logs

hg log

sejal@sejal-vtrtual-machine:-/my\_project\$ hg log
consequence consequen

Displays the commit history.