

<https://raosh.notion.site/raosh/OSS-5b6ed4cd3b624304811533b2fe306082> (VCS = git, SVN, HG mercurial)

<https://docs.google.com/document/d/1z6jpvF3MaAcmzJs90wcFd3s4j6h7HckxiYxhguKg2nA/edit?usp=sharing> (Mohit - ftp,nfs,bugzilla,debian,sonar)

<https://github.com/RiteshWanave/oss>

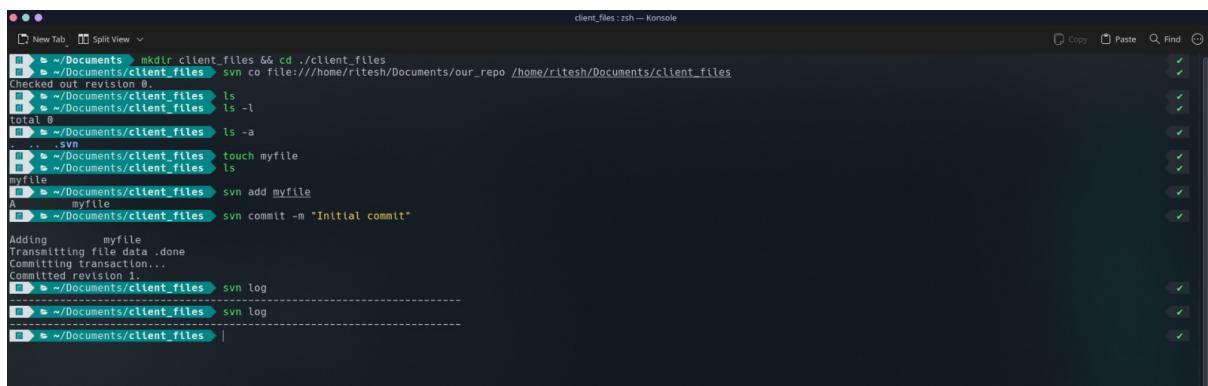
1. Bugzilla

<https://bugzilla.readthedocs.io/en/latest/installing/quick-start.html>

2. SVN

<https://meetawaiszafar.medium.com/install-configure-svn-server-on-ubuntu-20-04-with-apache2-6dcd7d9a49e9>

`svnadmin create our_repo`



The screenshot shows a terminal window titled "client_files : zsh — Konsole". The session starts with creating a directory and checking it out:

```
mkdir client_files && cd ./client_files
Checked out revision 0.
```

Then, it lists the contents of the directory:

```
ls
total 0
```

A new file is created and added:

```
touch myfile
svn add myfile
```

The file is committed with a message:

```
svn commit -m "Initial commit"
```

Output from the commit command:

```
Adding     myfile
Transmitting file data .done
Committing transaction...
Committed revision 1.
```

Finally, the log is checked:

```
svn log
```

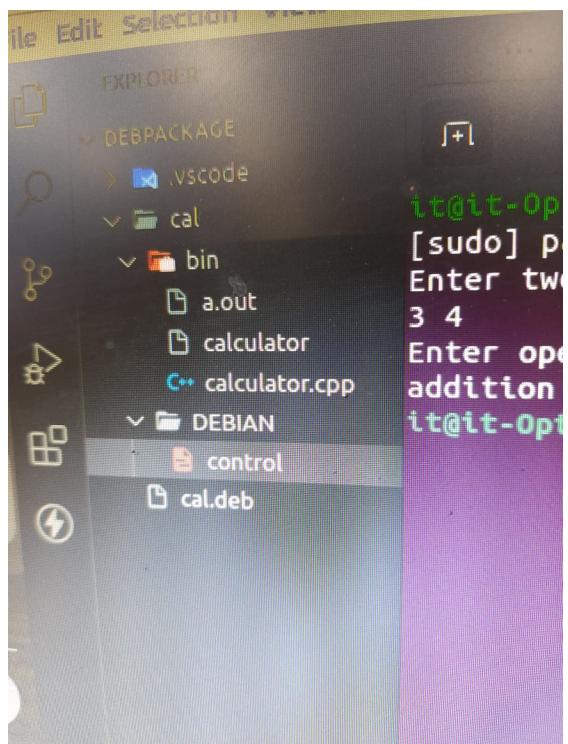
`svn log`

`svn log -r 0:HEAD`

3. Joomla

<https://hostadvice.com/how-to/website-builders/joomla/how-to-install-joomla-on-an-ubuntu/>

4. DEBIAN



control - debpackage - Visual Studio Code

Terminal Help

```
control@it-OptiPlex-5080: ~ % cd cal/debian; ./control
cal > DEBIAN > control
 1 Package: calculator
 2 Version: 1.0
 3 Section: custom
 4 Priority: optional
 5 Architecture: all
 6 Essential: no
 7 Installed-Size: 1024
 8 Maintainer: Aditi aditi.sawant@walchandsangli.ac.in
 9 Description: Basic calculator
10 |
```

```

it@it-OptiPlex-3050:~/Documents/debpackages ls
cal
• it@it-OptiPlex-3050:~/Documents/debpackage$ cd cal
• it@it-OptiPlex-3050:~/Documents/debpackage/cal$ cd bin
• it@it-OptiPlex-3050:~/Documents/debpackage/cal/bin$ g++ calculator.cpp
• it@it-OptiPlex-3050:~/Documents/debpackage/cal/bin$ ./a.out
Enter two numbers:
2 3
Enter operator:+
addition = 5
• it@it-OptiPlex-3050:~/Documents/debpackage/cal/bin$ g++ calculator.cpp -o calculator
• it@it-OptiPlex-3050:~/Documents/debpackage/cal/bin$ ./calculator
Enter two numbers:
5 5
Enter operator:-
addition = 0
• it@it-OptiPlex-3050:~/Documents/debpackage/cal/bin$ cd ..
• it@it-OptiPlex-3050:~/Documents/debpackage/cal$ cd ..
• it@it-OptiPlex-3050:~/Documents/debpackage$ sudo apt install build-essential
[sudo] password for it:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
build-essential is already the newest version (12.9ubuntu3).
0 upgraded, 0 newly installed, 0 to remove and 65 not upgraded.
• it@it-OptiPlex-3050:~/Documents/debpackage$ sudo dpkg-deb --build cal
dpkg-deb: building package 'calculator' in 'cal.deb'.
• it@it-OptiPlex-3050:~/Documents/debpackage$ ls -l
total 12
drwxrwxr-x 4 it  it  4096 Nov  6 13:56 cal
-rw-r--r-- 1 root root 4174 Nov  6 14:03 cal.deb
• it@it-OptiPlex-3050:~/Documents/debpackage$ sudo dpkg -i cal.deb
Selecting previously unselected package calculator.
(Reading database ... 21862 files and directories currently installed.)
Preparing to unpack cal.deb ...
Unpacking calculator (1.0) ...
Setting up calculator (1.0) ...
• it@it-OptiPlex-3050:~/Documents/debpackages
```

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Creating a Debian (DEB) package involves several steps, including organizing the package structure, creating necessary files, and using tools like dpkg to build and install the package. Below is a simple example to demonstrate how you can create a DEB package for a Python script that performs string addition.

Assuming you have the following Python script named string_addition.py:

```

python
Copy code
# string_addition.py
def add_strings(str1, str2):
    return str1 + str2
```

```

if __name__ == "__main__":
    print(add_strings("Hello", " World"))
```

Now, let's create a DEB package for this script:

1. Organize Package Structure:

Create a directory structure for your package:

plaintext

Copy code
my_string_addition/
|-- DEBIAN/
| '-- control
|-- usr/
| '-- bin/
| '-- string_addition

2. Create Control File:

Inside the DEBIAN directory, create a control file with package information:

plaintext
Copy code
Package: my-string-addition
Version: 1.0
Architecture: all
Maintainer: Your Name <your.email@example.com>
Description: Python script for string addition

3. Create Installation Script:

Optionally, you can include pre/post installation or removal scripts. For simplicity, we won't use them in this example.

4. Copy Python Script:

Copy your Python script into the usr/bin directory:

bash
Copy code
mkdir -p my_string_addition/usr/bin
cp string_addition.py my_string_addition/usr/bin/string_addition

5. Set Permissions:

Make the Python script executable:

bash
Copy code
chmod +x my_string_addition/usr/bin/string_addition

6. Build the DEB Package:

Navigate to the parent directory of your package and use dpkg-deb to build the DEB package:

bash

Copy code

`dpkg-deb --build my_string_addition`

This will create a DEB package named `my-string-addition_1.0_all.deb`.

7. Install the Package:

Install the DEB package using `dpkg`:

`bash`

Copy code

`sudo dpkg -i my-string-addition_1.0_all.deb`

8. Run the Python Script:

Now, you can run the Python script from the command line:

`bash`

Copy code

`string_addition`

9. Uninstall the Package:

5. SONAR

<https://www.digitalocean.com/community/tutorials/how-to-ensure-code-quality-with-sonarqube-on-ubuntu-18-04>

6. DRUPAL

<https://www.rosehosting.com/blog/how-to-install-drupal-on-ubuntu-22-04/>

7. NFS

<https://ubuntu.com/server/docs/service-nfs>

8. MANTIS

<https://computingforgeeks.com/install-and-configure-mantis-bug-tracker-on-ubuntu/>

9. Wordpress

<https://www.digitalocean.com/community/tutorials/how-to-install-wordpress-on-ubuntu-22-04-with-a-lamp-stack>

`sudo systemctl restart apache2`

`sudo apachectl configtest`

10. FTP

<https://ubuntu.com/server/docs/service-ftp>

11. Docker installation

<https://docs.docker.com/engine/install/ubuntu/#install-from-a-package>

12. Node Installation

<https://tecatadmin.net/how-to-install-nvm-on-ubuntu-20-04/>

13. MySQL installation

<https://www.digitalocean.com/community/tutorials/how-to-install-mysql-on-ubuntu-20-04>