Downloading the Source

The Android source tree is located in a Git repository hosted by Google. The Git repository includes metadata for the Android source, including changes to the source and when the changes were made. This page describes how to download the source tree for a specific Android code line.

Initializing a Repo client

After installing the Repo Launcher, set up your client to access the Android source repository:

1. Create an empty directory to hold your working files. Give it any name you like:

```
cd ~
mkdir aosp
cd aosp
```

2. Configure Git with name and email address.

```
git config --global user.name Your Name
git config --global user.email you@example.com
```

3. Run the following command(s) in the terminal:

```
sudo rm /usr/bin/python

sudo ln -s /usr/bin/python2.7 /usr/bin/python

repo init -u https://android.googlesource.com/platform/manifest
```

```
fenago@fenago:~/aosp$ sudo ln -s /usr/bin/python2.7 /usr/bin/python
fenago@fenago:~/aosp$ repo init -u https://android.googlesource.com/platform/manifest
gpg: keybox '/home/fenago/.repoconfig/gnupg/pubring.kbx' created
gpg: /home/fenago/.repoconfig/gnupg/trustdb.gpg: trustdb created
gpg: key 1653@05E92@F5C65: public key "Repo Maintainer <repo@android.kernel.org>" imported
gpg: key 67B7E448692B382C: public key "Conley Owens <cco3@android.com>" imported
gpg: Total number processed: 2
gpg: imported: 2

Get https://gerrit.googlesource.com/git-repo/clone.thmndle
Get https://gerrit.googlesource.com/git-repo
File "/home/fenago/aosp/.repo/repo/main.py", line 79
    file=sys.stderr)

SyntaxError: invalid syntax
```

Note: You will get error in repo init. You can ignore the error for now.

4. Run the following command in the terminal to create symlink for python3:

```
sudo rm /usr/bin/python
sudo ln -s /usr/bin/python3 /usr/bin/python
```

```
fenago@fenago:~/aosp$ sudo rm /usr/bin/python
fenago@fenago:~/aosp$ sudo ln -s /usr/bin/python3 /usr/bin/python
```

4. Run repo init to get the latest version of Repo with its most recent bug fixes. You must specify a URL for the manifest, which specifies where the various repositories included in the Android source are placed within your working directory.

```
repo init -u https://android.googlesource.com/platform/manifest
```

Note:

A successful initialization ends with a message stating that Repo is initialized in your working directory. Your client directory now contains a .repo directory where files such as the manifest are kept.

Downloading the Android source tree

More rarely, Linux clients experience connectivity issues, getting stuck in the middle of downloads (typically during *receiving objects*). Adjusting the settings of the TCP/IP stack and using non-parallel commands can improve the situation. You must have root access to modify the TCP setting.

To download the Android source tree to your working directory from the repositories as specified in the default manifest, run:

```
sudo sysctl -w net.ipv4.tcp_window_scaling=0
repo sync -j1
```

The Android source files are downloaded in your working directory under their project names.

Note: To suppress output, pass the -q (quiet) flag.