

Downloading the Source

Installing Repo

Repo is a tool built on top of Git. Repo helps manage many Git repositories, does the uploads to revision control systems, and automates parts of the development workflow. To familiarize various repo commands please see [RepoCommandReference](#)

Repo comes in two parts: One is a launcher script for installing, and it communicates with the second part, the full Repo tool included in a source code checkout. To install Repo:

1. Make sure that you have a `bin/` directory in your home directory and that it's included in your path:

```
mkdir ~/bin PATH=~/.bin:$PATH
```

2. Download the Repo Launcher and ensure that it's executable:

```
curl https://storage.googleapis.com/git-repo-downloads/repo > ~/bin/repo chmod a+x ~/bin/repo
```

Initializing a Repo client

After installing the Repo Launcher, set up your client to access the source code repository.

1. Create an empty directory to hold your working files.

```
mkdir WORKING_DIRECTORY
cd WORKING_DIRECTORY
```

2. Configure Git with your name and email address. The name that you provide here shows up in attributions for your code submissions.

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

3. Run `repo init` to get the latest version of Repo with its most recent bug fixes. You must specify a URL for the manifest.

```
repo init -u https://code.rdkcentral.com/r/manifests -m <manifestfile.xml> -b <branch name>
```

example : `repo init -u https://code.rdkcentral.com/r/manifests -m rdkv-raspberrypi.xml -b morty`



- Cloning the code before login once to code.rdkcentral.com, user would get the Authentication error, even though the account is in good standing and has all the required access.
- Please login to code.rdkcentral.com before attempting to clone.

To check out a branch other than `master`, specify it with `-b`. For a list of branches,

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

Downloading the RDK Source tree

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

```
repo sync
```

The RDK source files are located in your working directory under their project names.

Using authentication

By default, access to the RDK source code is anonymous and for restricted content user need to set up credential in **.netrc** file.

The first step is to create a password with the key generator tool. The second step is to force authenticated access by using the manifest URI <https://code.rdkcentral.com/r/manifests>.

Notice how the `/r/` directory prefix triggers mandatory authentication. You can convert an existing client to use mandatory authentication with the following command:

```
repo init -u https://code.rdkcentral.com/r/manifests
```

Troubleshooting Network issues

When downloading from behind a proxy (which is common in some corporate environments), you might need to explicitly specify the proxy that is then used by Repo:

```
export HTTP_PROXY=http://<proxy_user_id>:<proxy_password>@<proxy_server>:<proxy_port>  
export HTTPS_PROXY=http://<proxy_user_id>:<proxy_password>@<proxy_server>:<proxy_port>
```