

Lesson 03 Demo 02

Working with Git Upstream

Objective: To set up and manage an upstream connection in Git, enabling contributors to stay synchronized with changes made in the original repository while working on their forked copies

Tools required: Git and GitHub

Prerequisites: Refer to Lesson 02 Demo 03 for creating a Git fork

Steps to be followed:

1. Clone your fork
2. Add upstream remote
3. Verify remote

Step 1: Clone your fork

1.1 Clone the forked repository to your local machine by using the following command:

git clone <your-fork-url>

```
ravitulsianisim@ip-172-31-31-214:~$ git clone https://github.com/raavi/learn/Upstream.git
Cloning into 'Upstream'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
ravitulsianisim@ip-172-31-31-214:~$
```

1.2 Change the directory to the cloned directory by using the following command:

cd <repository-name>

```
ravitulsianisim@ip-172-31-31-214:~$ cd Upstream
ravitulsianisim@ip-172-31-31-214:~/Upstream$
```

Step 2: Add upstream remote

- 2.1 Add the upstream remote pointing to the original repository by using the following command:

git remote upstream <original-repo-url>

```
ravitulsianisim@ip-172-31-31-214:~/Upstream$ git remote add upstream https://github.com/GithubResources1/Upstream.git
ravitulsianisim@ip-172-31-31-214:~/Upstream$
```

Step 3: Verify remote

- 3.1 Verify that the remotes have been added correctly by using the following command:

git remote -v

```
ravitulsianisim@ip-172-31-31-214:~/Upstream$ git remote -v
origin  https://github.com/[redacted]/Upstream.git (fetch)
origin  https://github.com/[redacted]/Upstream.git (push)
upstream https://github.com/GithubResources1/Upstream.git (fetch)
upstream https://github.com/GithubResources1/Upstream.git (push)
ravitulsianisim@ip-172-31-31-214:~/Upstream$
```

By following these steps, you have successfully kept your forked repository synchronized with the changes made in the original repository, allowing for smoother collaboration and integration of new features or fixes.