

## Lesson 03 Demo 03

### Creating and Deleting Tags

**Objective:** To create and delete tags in a Git repository, helping users efficiently manage version control and maintain historical checkpoints within their software development projects

**Tools required:** Git and GitHub

**Prerequisites:** Refer to Lesson 02 Demo 01 for creating and cloning a repository

Steps to be followed:

1. Create a tag
2. Delete a tag

#### Step 1: Create a tag

1.1 Clone and navigate to your git repository by using the following command:

```
git clone <url-of-repo>
cd <repo-name>
```

```
ravitulsianisim@ip-172-31-31-214:~$ git clone https://github.com/GithubWorkstation/Tags.git
Cloning into 'Tags'...
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:~$ cd Tags
ravitulsianisim@ip-172-31-31-214:~/Tags$
```

1.2 Create a tag by using the following command:

```
git tag <tag-name>
```

```
ravitulsianisim@ip-172-31-31-214:~/Tags$ git tag v1.0-lightweight
```

1.3 Verify the creation of the tag by using the following command:

**git tag**

```
ravitulsianisim@ip-172-31-31-214:~/Tags$ git tag
v1.0-lightweight
ravitulsianisim@ip-172-31-31-214:~/Tags$
```

1.4 Push tag to Git repository by using the following command:

**git push origin <tag-name>**

```
ravitulsianisim@ip-172-31-31-214:~/Tags$ git push origin v1.0-lightweight
Username for 'https://github.com': GithubWorkStation
Password for 'https://GithubWorkStation@github.com':
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/GithubWorkStation/Tags.git
 * [new tag]          v1.0-lightweight -> v1.0-lightweight
ravitulsianisim@ip-172-31-31-214:~/Tags$
```

## Step 2: Delete a tag

2.1 Use the following command to delete the tag locally:

**git tag -d <tag-name>**

```
ravitulsianisim@ip-172-31-31-214:~/Tags$ git tag -d v1.0-lightweight
```

2.2 Push the deletion to the remote repository by using the following command:

**git push origin --delete <tag-name>**

```
ravitulsianisim@ip-172-31-31-214:~/Tags$ git push origin --delete v1.0-lightweight
Username for 'https://github.com': GithubWorkStation
Password for 'https://GithubWorkStation@github.com':
To https://github.com/GithubWorkStation/Tags.git
 - [deleted]          v1.0-lightweight
ravitulsianisim@ip-172-31-31-214:~/Tags$
```

2.3 Verify deletion by using the following command:

**git tag**

```
ravitulsianisim@ip-172-31-31-214:~/Tags$ git tag  
ravitulsianisim@ip-172-31-31-214:~/Tags$
```

No tag name is listed which means the tag has been deleted.

By following these steps, you have successfully created and deleted tags in a Git repository which will enhance your version control practices, ensuring clear and organized management of release points and significant changes in your projects.

