



St. JOSEPH'S
GROUP OF INSTITUTIONS
OMR, CHENNAI - 119



Placement Empowerment Program

Cloud Computing and DevOps Centre

100 Days of DevOps Challenge

Day 34 : Git Hook

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Git Hook

Objective :

To merge the feature branch into the master branch, create a **post-update** Git hook to automatically generate and push a new release tag upon every push to the master branch, and then push the changes to the remote repository.

Steps Performed :

Step 1: Merge Branches

First, merge the feature branch into the master branch.

- On the command line, run: **git merge feature**

Step 2: Create the Hook

Next, create a **post-update** hook that will automatically tag releases.

- Navigate to the .git/hooks directory.
- Create a file named post-update.
- Add the following lines to the file:

```
#!/bin/sh
```

```
TAG_NAME="release-$(date +%Y-%m-%d)"  
git tag -a "$TAG_NAME" -m "Release for $(date +%Y-%m-%d)"  
git push origin "$TAG_NAME"
```

- Make the file executable by running: **chmod +x post-update**

Step 3: Push Changes

Finally, push your changes to the remote repository. The hook will automatically create and push the new release tag.

- Run the following command: **git push**

The screenshot shows a terminal window titled "Terminal 1" with the command "git status" run. The output indicates the user is on the "master" branch, ahead of "origin/master" by one commit. It also shows a log of commits made on September 23, 2025, including a merge commit and a tag named "4bdf07c".

```
-rwxr-xr-x 1 natasha natasha 4982 Sep 23 03:06 pre-rebase.sample
-rwxr-xr-x 1 natasha natasha 548 Sep 23 03:06 pre-receive.sample
-rwxr-xr-x 1 natasha natasha 1496 Sep 23 03:06 prepare-commit-msg.sample
-rwxr-xr-x 1 natasha natasha 2787 Sep 23 03:06 push-to-checkout.sample
-rwxr-xr-x 1 natasha natasha 2312 Sep 23 03:06 sendemail-validate.sample
-rwxr-xr-x 1 natasha natasha 3654 Sep 23 03:06 update.sample
[natasha@ststor01 official]$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
[natasha@ststor01 official]$ git push
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To /opt/official.git
  8694b29..4bdf07c  master -> master
[natasha@ststor01 official]$ git log --oneline
30092116b728e210d45ae855c8b13 (HEAD -> master, origin/master, origin/feature, feature)
Author: Admin <admin@kodecloud.com>
Date:  Tue Sep 23 03:06:09 2025 +0000

  Add feature

commit 8694b29dcff9edbe4e1dd0146bcb54c523a49b
Author: Admin <admin@kodecloud.com>
Date:  Tue Sep 23 03:06:09 2025 +0000

  initial commit
[natasha@ststor01 official]$ 
```

The screenshot shows a mobile application interface. At the top, a green toast notification says "Congrats! You have completed the task successfully." Below it, there's a challenge card for "100 Days of DevOps" Day 34: Git Hook. The card features a blue circular icon with a checkmark. At the bottom left, there are two icons: a stack of coins labeled "80" and a blue circle labeled "800". On the bottom right, there's a button with the text "Share your success card" and a share icon.