Module 3: Git and Jenkins

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edureka!



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Demo – 3: Stashing, Rebasing, Reverting and Resetting

- To Create a stash of your current working directory Syntax: git stash save 'message'
- To list all the saved stashes
 Syntax: git stash list
- Stash list uses a stack structure to save the list

```
edureka@kmaster:~/demo$ git stash list
stash@{0}: On feat1: Saving changes made to RepoFile
edureka@kmaster:~/demo$
```

- Saved stashes can be applied at any time on any branch Syntax: git stash apply <stash id>
- After applying a stash, it can still be accessed elsewhere because it remains in the stash

 Pop command can be used to apply the most recent stash and removing it from the stash stack

Syntax: git stash pop

 Stashes can be deleted from the stash list Syntax: git stash drop <stack id>

```
edureka@kmaster:~/demo$ git stash drop stash@{0}
Dropped stash@{0} (4efd84ff40abda6ee6d25b618f6a25f1781384cb)
edureka@kmaster:~/demo$
```

 The entire stack can also be deleted using one command Syntax: git stash clear

```
edureka@kmaster:~/demo$ git stash clear
edureka@kmaster:~/demo$
```

Rebasing, reverting, and resetting:

To Rebase a branch Syntax: git rebase <rebase branch>

```
edureka@kmaster:~/demo$ git rebase master
First, rewinding head to replay your work on top of it...
Fast-forwarded feat1 to master.
edureka@kmaster:~/demo$
```

Revert or undo the changes made in the previous commit

- New commit is created without the changes made in the other commit Syntax: git revert <commit id>
- Old commit still resides in the history

```
edureka@kmaster:~/demo$ git revert HEAD
[feat1 e8581e0] Revert "revert edit"
  1 file changed, 2 deletions(-)
edureka@kmaster:~/demo$
```

- Reset command can be used to undo changes at different levels
- Modifiers like --hard, --soft and --mixed can be used to decide the degree to which to reset

Syntax: git reset <modifier> <commit id>

```
edureka@kmaster:~/demo$ git reset v0.3
Unstaged changes after reset:
D     Demo.java
edureka@kmaster:~/demo$
```