



FEBRUARY 24, 2023

# DevOps Classroomnotes 24/Feb/2023

## Git Contd

### Multi User Git Scenarios

- Create a Git Repo in GitHub
- GitHub and many repositories use md (markdown) as a default document format
- Simulate two users (RRR)
  - Ram
  - Bheem
- Create local configs for username and emails

```

RAM Bheem
Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/ram/RRR (main)
$ git config --local user.name ram

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/ram/RRR (main)
$ git config --local user.email ram@rrr.com

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/ram/RRR (main)
$

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/bheem
$ cd RRR/

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/bheem/RRR (main)
$ git config --local user.name bheem

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/bheem/RRR (main)
$ git config --local user.email bheem@RRR.com

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/bheem/RRR (main)
$

```

- Create a commit on each of thier machines

```

RAM Bheem
$ mkdir src

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/bheem/RRR (main)
$ touch src/main.py

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/bheem/RRR (main)
$ git add -A

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/bheem/RRR (main)
$ git commit -m "Added main.py"
[main 1c9166c] Added main.py
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 src/main.py

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/bheem/RRR (main)
$ git log --oneline
1c9166c (HEAD -> main) Added main.py
79d6f10 (origin/main, origin/HEAD) Initial commit

```

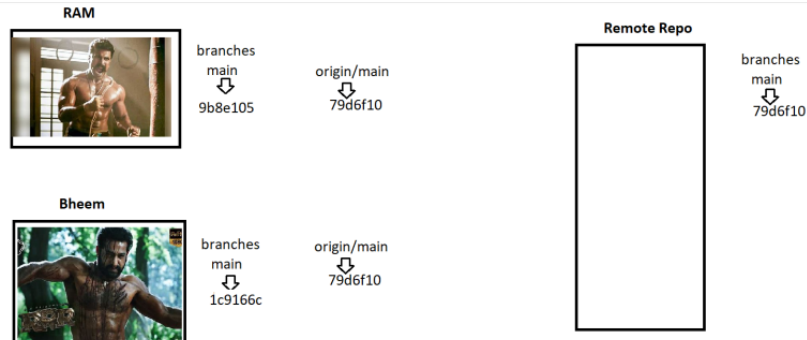
```

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/ram/RRR (main)
$ git log --oneline
9b8e105 (HEAD -> main) Added tests
79d6f10 (origin/main, origin/HEAD) Initial commit

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/ram/RRR (main)
$

```

- Current status



- let ram push the changes

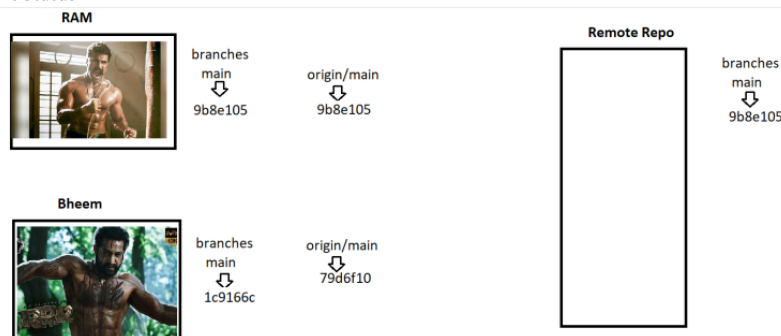
```

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/ram/RRR (main)
$ git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 339 bytes | 339.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/GitPracticeRepo/RRR.git
  79d6f10..9b8e105  main -> main

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/ram/RRR (main)
$

```

- Current Status



- Let Bheem push the changes

```

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/bheem/RRR (main)
$ git push origin main
To https://github.com/GitPracticeRepo/RRR.git
 ! [rejected]        main -> main (fetch first)
error: failed to push some refs to 'https://github.com/GitPracticeRepo/RRR.git'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

```

- This failed as bheems origin doesnot represent latest changes in Remote.
- Bheem now executes (git pull) which will fetch the changes from remote and merge the changes. In this situation due to merge an extra commit is created

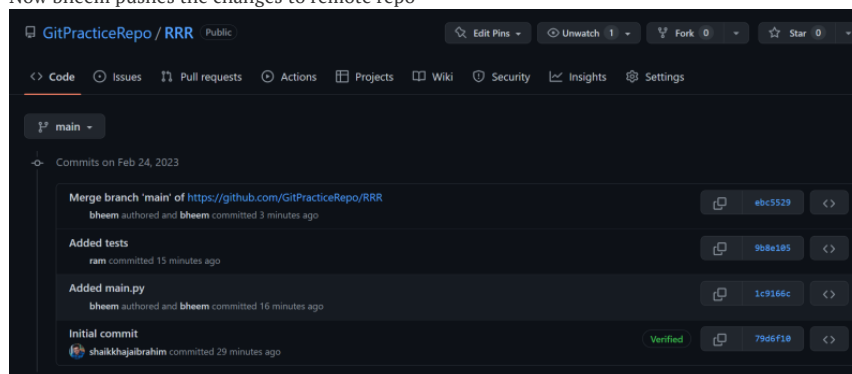
```

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/bheem/RRR (main)
$ git pull origin main
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 4 (delta 0), reused 4 (delta 0), pack-reused 0
Unpacking objects: 100% (4/4), 319 bytes | 45.00 KiB/s, done.
From https://github.com/GitPracticeRepo/RRR
 * branch      main      -> FETCH_HEAD
   79d6f10..9b8e105  main    -> origin/main
Merge made by the 'ort' strategy.
 tests/main.py | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 tests/main.py

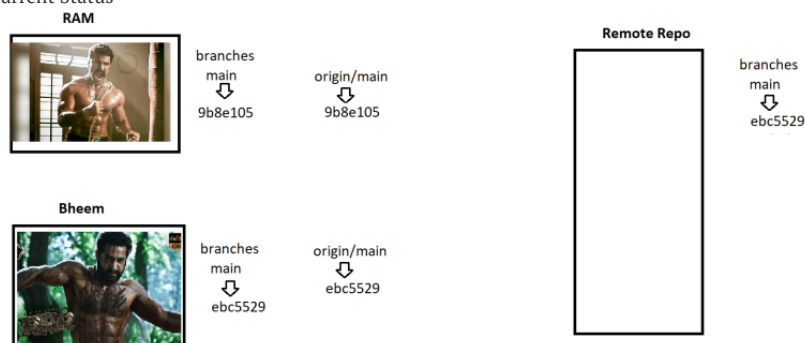
Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/bheem/RRR (main)
$ git log --oneline
ebc5529 (HEAD -> main) Merge branch 'main' of https://github.com/GitPracticeRepo/RRR
9b8e105 (origin/main, origin/HEAD) Added tests
1c9166c Added main.py
79d6f10 Initial commit

```

- Now bheem pushes the changes to remote repo



- Current Status



- Now let RAM does one commit

```

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/ram/RRR (main)
$ git log --oneline
4ea5d2e (HEAD -> main) Added shebang
9b8e105 (origin/main, origin/HEAD) Added tests
79d6f10 Initial commit

```

- RAM when pushesh will fail, so ram decides to pull using rebase

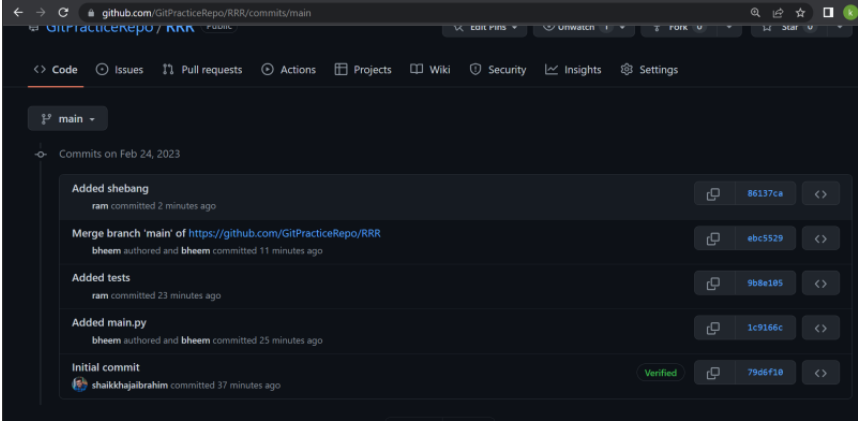
```

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/ram/RRR (main)
$ git pull --rebase
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 1), reused 4 (delta 1), pack-reused 0
Unpacking objects: 100% (4/4), 506 bytes | 25.00 KiB/s, done.
From https://github.com/GitPracticeRepo/RRR
 9b8e105..ebc5529  main    -> origin/main
Successfully rebased and updated refs/heads/main.

Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/ram/RRR (main)
$ git log --oneline
86137cd (HEAD -> main) Added shebang
ebc5529 (origin/main, origin/HEAD) Merge branch 'main' of https://github.com/GitPracticeRepo/RRR
9b8e105 Added tests
1c9166c Added main.py
79d6f10 Initial commit

```

- Now push the changes



Leave a Reply

Enter your comment here...

This site uses Akismet to reduce spam. [Learn how your comment data is processed.](#)



About continuous learner  
devops & cloud enthusiastic learner

[VIEW ALL POSTS](#)

[◀ PREVIOUS POST](#)

[Azure Classroomnotes 24/Feb/2023](#)

NEXT POST

[AWS Classroomnotes 24/Feb/2023](#)