

Module 3: Git And Jenkins

Demo Document – 2

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Demo – 2: Merge Conflict

- Merge Conflict arises on merging branches

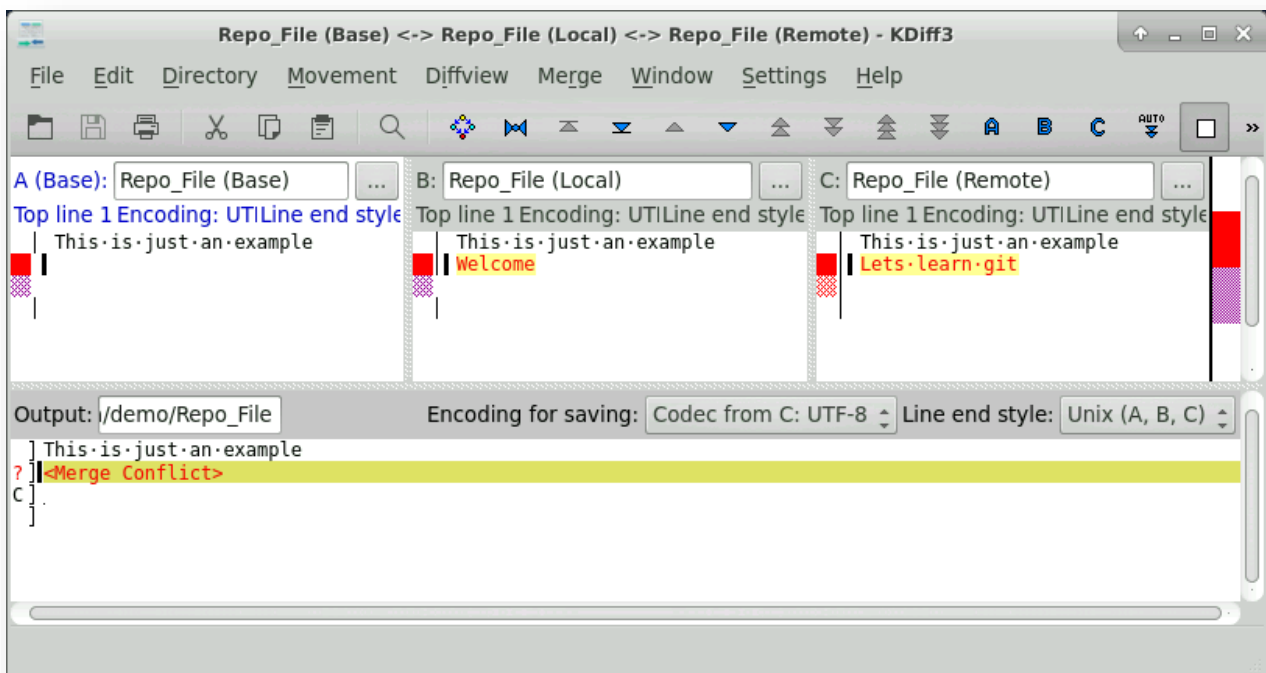
```
edureka@kmaster:~/demo$ git merge feat2
Auto-merging RepoFile
CONFLICT (content): Merge conflict in RepoFile
Automatic merge failed; fix conflicts and then commit the result.
edureka@kmaster:~/demo$
```

- Set a default merge tool before resolving conflict
Syntax: git config --global merge.tool <toolname>

```
edureka@kmaster:~/demo$ git config --global merge.tool kdiff3
edureka@kmaster:~/demo$
```

- Merge-tool automatically detects the conflicts and displays them
Syntax: git mergetool

```
edureka@kmaster:~/demo$ git mergetool
```



Conflicts - kdiff3

Total number of conflicts: 2
Nr of automatically solved conflicts: 1
Nr of unsolved conflicts: 1

OK

Initial or base version of RepoFile

Branch version of RepoFile

Changes to be made in this area

Master Branch version of RepoFile

Repo_File (Base) <-> Repo_File (Local) <-> Repo_File (Remote) - KDiff3

File Edit Directory Movement Diffview Merge Window Settings Help

A (Base): Repo_File (Base) B: Repo_File (Local) C: Repo_File (Remote)

Top line 1 Encoding: Line end style: This is just an example

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Output: File Encoding for saving: Codec from C: UTF-8 Line end style: Unix (A, B, C)

This is just an example

Let's learn git

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A Base: Repo_File (Base)

B: Repo_File (Local)

C: Repo_File (Remote)

Top line 1 Encoding: UTF-8 Line end style: Unix (A, B, C)

Top line 1 Encoding: UTF-8 Line end style: Unix (A, B, C)

Top line 1 Encoding: UTF-8 Line end style: Unix (A, B, C)

Output: a/demo/Repo_File

This is just an example

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We can also edit this file here

New changes can also be made by the user

Letters correspond to the changes user wants to keep

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- Commit the resolved changes
- Merge the branch again

```
root@kmaster:~/demo# git commit -a -m 'resolved merge conflicts'
[master 9a994bc] resolved merge conflicts
root@kmaster:~/demo# git merge feat2
Already up to date.
root@kmaster:~/demo# git branch --merged
  feat1
  feat2
* master
root@kmaster:~/demo#
```

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