



LOGICLABS TECHNOLOGIES

AWS Devops

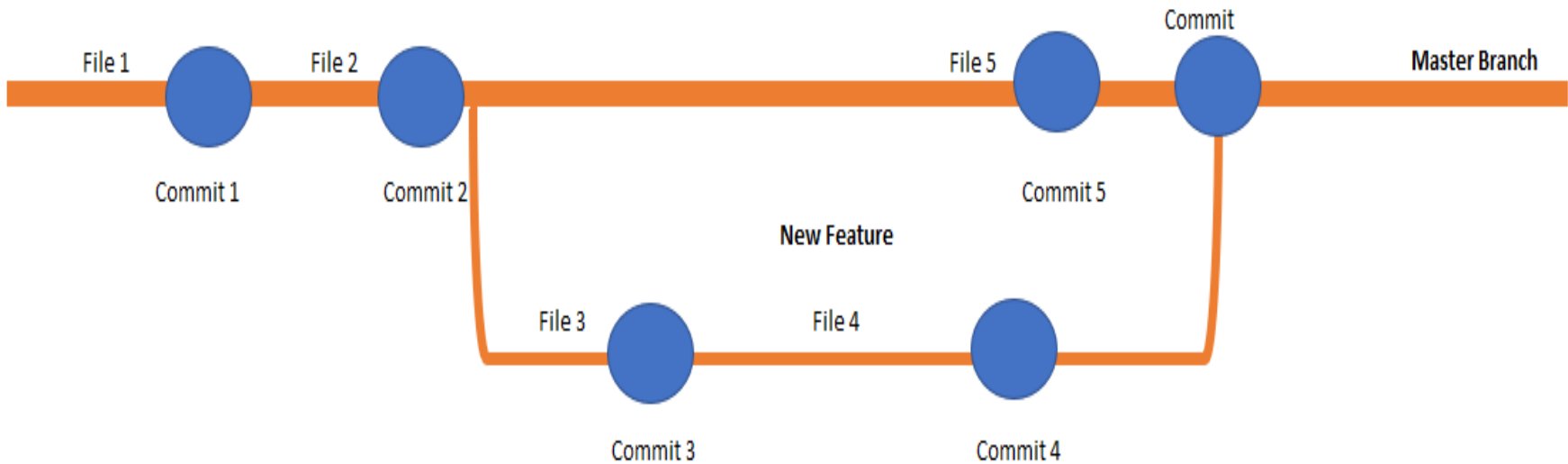
Branching

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Branching

- In Git, a branch is a new/separate version of the main repository. Let's say you have a large project, and you need to update the design on it. This feature is provided in git, so that developers can create code related to different functionalities on separate branches. This helps the development team in creating the code in an uncluttered way. Later this code can be merged with master branch. Default branch of git is "Master"
- **Note: Git will not create a master branch until you commit something.**

Branching



- Create a folder
- Open Git Bash
- **Convert the folder into working directory**
git init

Branching

- **Create file**

`touch file1`

- **Check file status**

`git status`

- **Move all the file to Staged Area**

`git add .`

- **Move All files from stage area to local repository**

`git commit -m "commit1"`

Branching

- **Check file status**

git status

- **Create file**

touch file2

- **Move all the file to Staged Area**

git add .

- **Check file status**

git status

Branching

- **Move All files from stage area to local repository**

`git commit -m "commit2"`

- **Create Branch**

`git branch <Branch_name>`

- After creation of feature branch still we are in the master branch.

- **Change Branch**

`git checkout <Branch_Name>`

Branching

- **Create file**

`touch file3`

- **Move all the file to Staged Area**

`git add .`

- **Move All files from stage area to local repository**

`git commit -m "commit3"`

- **Create file**

`touch file4`

Branching

- **Move all the file to Staged Area**

`git add .`

- **Move All files from stage area to local repository**

`git commit -m "commit4"`

- **Check all Commits**

`git log --oneline`

- We are able to see master branch & feature branch commits.

Branching

- **See all Branch**

git branch

- **Check the files**

ls

- We are able to see master branch & feature branch files because system copy the commit history.

- **Move to Master Branch**

git checkout master

Branching

- **Check the files**

ls

- **Check all Commits**

git log --oneline

- **Create file**

touch file5

- **Move all the file to Staged Area**

git add .

Branching

- **Move All files from stage area to local repository**

`git commit -m "commit5"`

- **Check all Commits**

`git log --oneline`

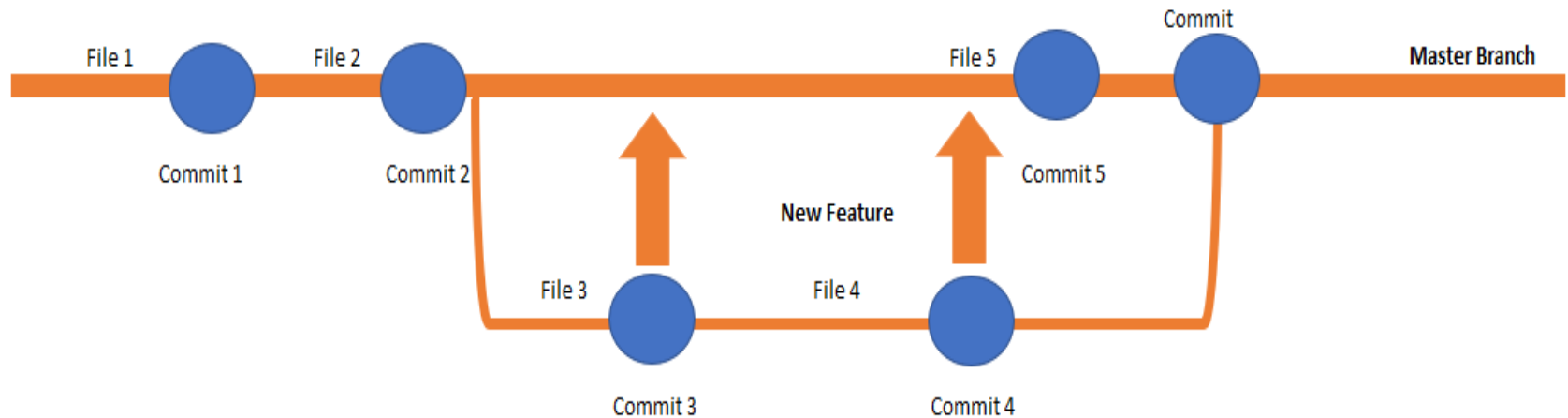
- **Check the files**

`ls`

- **Merge Branch**

`git merge <Branch_Name>`

Branching



- **Note: While merging make sure we are in the master branch & we can only merge child branch with parent branch.**

- **Exit the File**

:q!

Branching

- **Check the files**

ls

- **Check all Commits**

git log --oneline

- System is creating a new commit & Branch commit is between commit 2 & commit5.

- **Delete Branch**

git branch -d <Branch_name>

Branching

- **Note: Make sure branch is empty (All Files are merged with master branch)**

- **Check All Branch**

git branch



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