1. Cloning an empty remote repository to create the local repository

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects

$ git clone git@github.com:arnab-ari/DemoRepository.git

Cloning into 'DemoRepository'...

Enter passphrase for key '/c/Users/ARNAB/.ssh/id\_rsa':

warning: You appear to have cloned an empty repository.

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects

$ cd DemoRepository

1. Creating the first file and initial commit. This sets an upstream master branch.

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (master)

$ touch initial

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (master)

$ ls

initial

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (master)

$ git add initial

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (master)

$ git status

On branch master

No commits yet

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: initial

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (master)

$ git commit -m "Initial Commit"

[master (root-commit) 6fa2692] Initial Commit

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 initial

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (master)

$ git push -u origin master

Enter passphrase for key '/c/Users/ARNAB/.ssh/id\_rsa':

Enumerating objects: 3, done.

Counting objects: 100% (3/3), done.

Writing objects: 100% (3/3), 214 bytes | 35.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

To github.com:arnab-ari/DemoRepository.git

\* [new branch] master -> master

Branch 'master' set up to track remote branch 'master' from 'origin'.

1. Creating the local branches and pushing them to the remote repository.

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (master)

$ git branch feature

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (master)

$ git branch dev

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (master)

$ git branch QA

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (master)

$ git branch delivery

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (master)

$ git push -u origin feature

Enter passphrase for key '/c/Users/ARNAB/.ssh/id\_rsa':

Total 0 (delta 0), reused 0 (delta 0), pack-reused 0

remote:

remote: Create a pull request for 'feature' on GitHub by visiting:

remote: https://github.com/arnab-ari/DemoRepository/pull/new/feature

remote:

To github.com:arnab-ari/DemoRepository.git

\* [new branch] feature -> feature

Branch 'feature' set up to track remote branch 'feature' from 'origin'.

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (master)

$ git push -u origin dev

Enter passphrase for key '/c/Users/ARNAB/.ssh/id\_rsa':

Total 0 (delta 0), reused 0 (delta 0), pack-reused 0

remote:

remote: Create a pull request for 'dev' on GitHub by visiting:

remote: https://github.com/arnab-ari/DemoRepository/pull/new/dev

remote:

To github.com:arnab-ari/DemoRepository.git

\* [new branch] dev -> dev

Branch 'dev' set up to track remote branch 'dev' from 'origin'.

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (master)

$ git push -u origin QA

Enter passphrase for key '/c/Users/ARNAB/.ssh/id\_rsa':

Total 0 (delta 0), reused 0 (delta 0), pack-reused 0

remote:

remote: Create a pull request for 'QA' on GitHub by visiting:

remote: https://github.com/arnab-ari/DemoRepository/pull/new/QA

remote:

To github.com:arnab-ari/DemoRepository.git

\* [new branch] QA -> QA

Branch 'QA' set up to track remote branch 'QA' from 'origin'.

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (master)

$ git push -u origin delivery

Enter passphrase for key '/c/Users/ARNAB/.ssh/id\_rsa':

Total 0 (delta 0), reused 0 (delta 0), pack-reused 0

remote:

remote: Create a pull request for 'delivery' on GitHub by visiting:

remote: https://github.com/arnab-ari/DemoRepository/pull/new/delivery

remote:

To github.com:arnab-ari/DemoRepository.git

\* [new branch] delivery -> delivery

Branch 'delivery' set up to track remote branch 'delivery' from 'origin'.

1. Checking out branches adding files.

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (master)

$ git checkout feature

Switched to branch 'feature'

Your branch is up to date with 'origin/feature'.

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (feature)

$ subl feature.txt

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (feature)

$ git add feature.txt

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (feature)

$ git commit -m "feture.txt added to the feature branch and a line added"

[feature 0df355d] feture.txt added to the feature branch and a line added

1 file changed, 1 insertion(+)

create mode 100644 feature.txt

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (feature)

$ git push origin feature

Enter passphrase for key '/c/Users/ARNAB/.ssh/id\_rsa':

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 4 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 326 bytes | 65.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

To github.com:arnab-ari/DemoRepository.git

6fa2692..0df355d feature -> feature

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (feature)

$ subl feature.txt

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (feature)

$ git add .

warning: CRLF will be replaced by LF in feature.txt.

The file will have its original line endings in your working directory

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (feature)

$ git status

On branch feature

Your branch is up to date with 'origin/feature'.

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

modified: feature.txt

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (feature)

$ git commit -m "second line added to feature.txt"

[feature 1f44833] second line added to feature.txt

1 file changed, 2 insertions(+), 1 deletion(-)

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (feature)

$ git checkout delivery

Switched to branch 'delivery'

Your branch is up to date with 'origin/delivery'.

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (delivery)

$ git checkout feature

Switched to branch 'feature'

Your branch is ahead of 'origin/feature' by 1 commit.

(use "git push" to publish your local commits)

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (feature)

$ git push origin feature

Enter passphrase for key '/c/Users/ARNAB/.ssh/id\_rsa':

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 4 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 322 bytes | 64.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

To github.com:arnab-ari/DemoRepository.git

0df355d..1f44833 feature -> feature

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (feature)

$ git checkout delivery

Switched to branch 'delivery'

Your branch is up to date with 'origin/delivery'.

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (delivery)

$ mkdir deliverable

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (delivery)

$ git status

On branch delivery

Your branch is up to date with 'origin/delivery'.

nothing to commit, working tree clean

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (delivery)

$ cd deliverable

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository/deliverable (delivery)

$ subl delivery1.txt

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository/deliverable (delivery)

$ git add .

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository/deliverable (delivery)

$ git status

On branch delivery

Your branch is up to date with 'origin/delivery'.

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: delivery1.txt

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository/deliverable (delivery)

$ git commit -m "delivery1.txt added to deliverables"

[delivery e1ad4e1] delivery1.txt added to deliverables

1 file changed, 1 insertion(+)

create mode 100644 deliverable/delivery1.txt

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository/deliverable (delivery)

$ git status

On branch delivery

Your branch is ahead of 'origin/delivery' by 1 commit.

(use "git push" to publish your local commits)

nothing to commit, working tree clean

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository/deliverable (delivery)

$ cd ..

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (delivery)

$ git status

On branch delivery

Your branch is ahead of 'origin/delivery' by 1 commit.

(use "git push" to publish your local commits)

nothing to commit, working tree clean

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (delivery)

$ git push origin delivery

Enter passphrase for key '/c/Users/ARNAB/.ssh/id\_rsa':

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 4 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (4/4), 360 bytes | 60.00 KiB/s, done.

Total 4 (delta 0), reused 0 (delta 0), pack-reused 0

To github.com:arnab-ari/DemoRepository.git

6fa2692..e1ad4e1 delivery -> delivery

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (delivery)

$ git checkout QA

Switched to branch 'QA'

Your branch is up to date with 'origin/QA'.

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (QA)

$ subl QA.txt

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (QA)

$ git add .

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (QA)

$ git commit -m "QA.txt added to the QA branch"

[QA 2e19ab1] QA.txt added to the QA branch

1 file changed, 1 insertion(+)

create mode 100644 QA.txt

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (QA)

$ git push origin QA

Enter passphrase for key '/c/Users/ARNAB/.ssh/id\_rsa':

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 4 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 295 bytes | 73.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

To github.com:arnab-ari/DemoRepository.git

6fa2692..2e19ab1 QA -> QA

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (QA)

$ git merge master

Already up to date.

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (QA)

$ git checkout master

Switched to branch 'master'

Your branch is up to date with 'origin/master'.

1. Merging master to the feature branch so that the features are available to master branch.

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (master)

$ git merge feature

Updating 6fa2692..1f44833

Fast-forward

feature.txt | 2 ++

1 file changed, 2 insertions(+)

create mode 100644 feature.txt

ARNAB@DESKTOP-UF6BAKH MINGW64 ~/projects/DemoRepository (master)

$ git push origin master

Enter passphrase for key '/c/Users/ARNAB/.ssh/id\_rsa':

Total 0 (delta 0), reused 0 (delta 0), pack-reused 0

To github.com:arnab-ari/DemoRepository.git

6fa2692..1f44833 master -> master