Git Guide

* git init

To initialize a git repository in the root of the folder

* git clone <https://github.com/vamshikrishna95/Devops-Training.git>

It will copy the files from Devops-Training repository to our master

* nano file2

Creates and take us inside the file

* Touch file2

Creates the file

* git status

status of the file like which all files need to be added or committed

* git add file2

add the file2 to the staging

* git add .

add all the files

* git commit -m "first comitt"

Commit the changes

* git push

pushes the code

* git checkout -b branchA

creates the branch and takes us to that branch

* git branch branchA

creates the branch

* git branch

shows the branches.

* git checkout branchA

takes us to that branch

* git merge branchA

merges the branchA with the master branch

**Note**: Should be done from the master branch

* git push --set-upstream origin branchA

pushes the code to branchA

**Note**: Should be done from the sub-branch

vamshkri@PC-SEZB-0551 MINGW64 /c/demo

$ git clone https://github.com/vamshikrishna95/Devops-Training.git

Cloning into 'Devops-Training'...

remote: Counting objects: 3, done.

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

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

vamshkri@PC-SEZB-0551 MINGW64 /c/demo

$ ls -l

total 0

drwxr-xr-x 1 vamshkri 1049089 0 Jul 11 13:01 Devops-Training/

vamshkri@PC-SEZB-0551 MINGW64 /c/demo

$ cd Devops-Training

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (master)

$ touch file1

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (master)

$ touch file2

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (master)

$ git add .

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (master)

$ git status

On branch master

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

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

new file: file1

new file: file2

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (master)

$ git commit -m "first commit"

[master a5afa04] first commit

Committer: Krishna T <vamshi.krishna-t@capgemini.com>

Your name and email address were configured automatically based

on your username and hostname. Please check that they are accurate.

You can suppress this message by setting them explicitly. Run the

following command and follow the instructions in your editor to edit

your configuration file:

git config --global --edit

After doing this, you may fix the identity used for this commit with:

git commit --amend --reset-author

2 files changed, 0 insertions(+), 0 deletions(-)

create mode 100644 file1

create mode 100644 file2

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (master)

$ git push

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), 285 bytes | 142.00 KiB/s, done.

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

To https://github.com/vamshikrishna95/Devops-Training.git

96fd101..a5afa04 master -> master

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (master)

$ git checkout branchA

error: pathspec 'branchA' did not match any file(s) known to git.

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (master)

$ git branch branchA

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (master)

$ git branch

branchA

\* master

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (master)

$ git checkout branchA

Switched to branch 'branchA'

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (branchA)

$ touch file3

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (branchA)

$ git add .

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (branchA)

$ git commit -m "branch commit"

[branchA 1220250] branch commit

Committer: Krishna T <vamshi.krishna-t@capgemini.com>

Your name and email address were configured automatically based

on your username and hostname. Please check that they are accurate.

You can suppress this message by setting them explicitly. Run the

following command and follow the instructions in your editor to edit

your configuration file:

git config --global --edit

After doing this, you may fix the identity used for this commit with:

git commit --amend --reset-author

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

create mode 100644 file3

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (branchA)

$ git push

fatal: The current branch branchA has no upstream branch.

To push the current branch and set the remote as upstream, use

git push --set-upstream origin branchA

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (branchA)

$ git push --set-upstream origin branchA

Enumerating objects: 3, done.

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

Delta compression using up to 4 threads.

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

Writing objects: 100% (2/2), 241 bytes | 241.00 KiB/s, done.

Total 2 (delta 1), reused 0 (delta 0)

remote: Resolving deltas: 100% (1/1), completed with 1 local object.

To https://github.com/vamshikrishna95/Devops-Training.git

\* [new branch] branchA -> branchA

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

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (branchA)

$ git checkout master

Switched to branch 'master'

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

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (master)

$ git merge branchA

Updating a5afa04..1220250

Fast-forward

file3 | 0

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

create mode 100644 file3

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (master)

$ git pull

remote: Counting objects: 1, done.

remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0

Unpacking objects: 100% (1/1), done.

From https://github.com/vamshikrishna95/Devops-Training

a5afa04..1b54828 master -> origin/master

Already up to date!

Merge made by the 'recursive' strategy.

vamshkri@PC-SEZB-0551 MINGW64 /c/demo/Devops-Training (master)

$ git push origin master

Enumerating objects: 1, done.

Counting objects: 100% (1/1), done.

Writing objects: 100% (1/1), 265 bytes | 265.00 KiB/s, done.

Total 1 (delta 0), reused 0 (delta 0)

To https://github.com/vamshikrishna95/Devops-Training.git

1b54828..ce03f19 master -> master