FORMATION GIT

INSTALLER GIT SUR LE NAS : https://kb.synology.com/fr-fr/DSM/help/Git/git?version=7

Struture :

Objet Blob : ensemble de fichiers

Objet Tree : contenant du blob et d’autres Tree enfants

Objet Commit : snapshot à 1 moment donné

pointe sur un Tree

pointe 1 ou plusieurs branches (Tree)

CLONE

PULL

BRANCH

CHECKOUT

ADD / COMMIT

PUSH

MERGE

PULL REQUEST :

Git status

Changes to be committed:

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

new file: fog.log

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git add fog.log

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git commit -m "c un test"

[master (root-commit) b88328d] c un test

1 file changed, 6576 insertions(+)

create mode 100644 fog.log

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git status

On branch master

nothing to commit, working tree clean

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git log

commit b88328d4c1cf99d12ab468d729f631c1ad472bf5 (HEAD -> master)

Author: Verdelay49 <domotiq.verdelay@gmail.com>

Date: Thu May 25 11:27:46 2023 +0200

c un test

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ cd tp1

Administrateur@S02-05-T3420 MINGW64 ~/test/tp1 (master)

$ cd ..

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git status

On branch master

Untracked files:

(use "git add <file>..." to include in what will be committed)

TP1/

nothing added to commit but untracked files present (use "git add" to track)

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git log

commit b88328d4c1cf99d12ab468d729f631c1ad472bf5 (HEAD -> master)

Author: Verdelay49 <domotiq.verdelay@gmail.com>

Date: Thu May 25 11:27:46 2023 +0200

c un test

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git init tp1

Initialized empty Git repository in C:/Users/Administrateur/test/TP1/.git/

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git add tp1.txt

fatal: pathspec 'tp1.txt' did not match any files

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ cd tp1

Administrateur@S02-05-T3420 MINGW64 ~/test/tp1 (master)

$ git add tp1.txt

Administrateur@S02-05-T3420 MINGW64 ~/test/tp1 (master)

$ git commit -m "c le tp1"

[master (root-commit) ce4d7fc] c le tp1

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

create mode 100644 tp1.txt

Administrateur@S02-05-T3420 MINGW64 ~/test/tp1 (master)

$ git status

On branch master

nothing to commit, working tree clean

Administrateur@S02-05-T3420 MINGW64 ~/test/tp1 (master)

$ git status

On branch master

nothing to commit, working tree clean

Administrateur@S02-05-T3420 MINGW64 ~/test/tp1 (master)

$ git log

commit ce4d7fc6498136534d14a9f6591a14099f2cd7b7 (HEAD -> master)

Author: Verdelay49 <domotiq.verdelay@gmail.com>

Date: Thu May 25 11:32:22 2023 +0200

c le tp1

Administrateur@S02-05-T3420 MINGW64 ~/test/tp1 (master)

$ git add exo1.txt

Administrateur@S02-05-T3420 MINGW64 ~/test/tp1 (master)

$ git commit -m "finished TP 1"

[master d755065] finished TP 1

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

create mode 100644 exo1.txt

Administrateur@S02-05-T3420 MINGW64 ~/test/tp1 (master)

$ git log

commit d75506517191382e709d7879e027c5d50da54955 (HEAD -> master)

Author: Verdelay49 <domotiq.verdelay@gmail.com>

Date: Thu May 25 11:35:01 2023 +0200

finished TP 1

commit ce4d7fc6498136534d14a9f6591a14099f2cd7b7

Author: Verdelay49 <domotiq.verdelay@gmail.com>

Date: Thu May 25 11:32:22 2023 +0200

c le tp1

Administrateur@S02-05-T3420 MINGW64 ~/test/tp1 (master)

$ git status

On branch master

nothing to commit, working tree clean

Administrateur@S02-05-T3420 MINGW64 ~/test/tp1 (master)

$

TP2

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git checkout feature

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

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git branch feature

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git checkout feature

Switched to branch 'feature'

Administrateur@S02-05-T3420 MINGW64 ~/test (feature)

$ git add feature.txt

fatal: pathspec 'feature.txt' did not match any files

Administrateur@S02-05-T3420 MINGW64 ~/test (feature)

$ git add feature.html

fatal: pathspec 'feature.html' did not match any files

Administrateur@S02-05-T3420 MINGW64 ~/test (feature)

$ git add feature.txt

Administrateur@S02-05-T3420 MINGW64 ~/test (feature)

$ git status

On branch feature

Changes to be committed:

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

new file: feature.txt

Untracked files:

(use "git add <file>..." to include in what will be committed)

TP1/

Administrateur@S02-05-T3420 MINGW64 ~/test (feature)

$ git commit -m "finished TP 2"

[feature ffb931d] finished TP 2

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

create mode 100644 feature.txt

Administrateur@S02-05-T3420 MINGW64 ~/test (feature)

$ git checkout main

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

Administrateur@S02-05-T3420 MINGW64 ~/test (feature)

$ git checkout test

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

Administrateur@S02-05-T3420 MINGW64 ~/test (feature)

$ cd ..

Administrateur@S02-05-T3420 MINGW64 ~ (master)

$ git merge feature

merge: feature - not something we can merge

Administrateur@S02-05-T3420 MINGW64 ~ (master)

$ got checkout master

bash: got: command not found

Administrateur@S02-05-T3420 MINGW64 ~ (master)

$ git merge feature

merge: feature - not something we can merge

Administrateur@S02-05-T3420 MINGW64 ~ (master)

$ git log

fatal: your current branch 'master' does not have any commits yet

Administrateur@S02-05-T3420 MINGW64 ~ (master)

$ git checkout feature

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

Administrateur@S02-05-T3420 MINGW64 ~ (master)

$ cd test

Administrateur@S02-05-T3420 MINGW64 ~/test (feature)

$ git checkout feature

Already on 'feature'

Administrateur@S02-05-T3420 MINGW64 ~/test (feature)

$ git add feature.txt

Administrateur@S02-05-T3420 MINGW64 ~/test (feature)

$ git commit -m "finished TP 2"

On branch feature

Untracked files:

(use "git add <file>..." to include in what will be committed)

TP1/

nothing added to commit but untracked files present (use "git add" to track)

Administrateur@S02-05-T3420 MINGW64 ~/test (feature)

$ git log

commit ffb931d63e4d806b95bbff338a127c27e14d7cdb (HEAD -> feature)

Author: Verdelay49 <domotiq.verdelay@gmail.com>

Date: Thu May 25 12:02:11 2023 +0200

finished TP 2

commit b88328d4c1cf99d12ab468d729f631c1ad472bf5 (master)

Author: Verdelay49 <domotiq.verdelay@gmail.com>

Date: Thu May 25 11:27:46 2023 +0200

c un test

Administrateur@S02-05-T3420 MINGW64 ~/test (feature)

$ git checkout master

Switched to branch 'master'

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git log

commit b88328d4c1cf99d12ab468d729f631c1ad472bf5 (HEAD -> master)

Author: Verdelay49 <domotiq.verdelay@gmail.com>

Date: Thu May 25 11:27:46 2023 +0200

c un test

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git merge feature

Updating b88328d..ffb931d

Fast-forward

feature.txt | 0

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

create mode 100644 feature.txt

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git log

commit ffb931d63e4d806b95bbff338a127c27e14d7cdb (HEAD -> master, feature)

Author: Verdelay49 <domotiq.verdelay@gmail.com>

Date: Thu May 25 12:02:11 2023 +0200

finished TP 2

commit b88328d4c1cf99d12ab468d729f631c1ad472bf5

Author: Verdelay49 <domotiq.verdelay@gmail.com>

Date: Thu May 25 11:27:46 2023 +020 c un test

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ ^C

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

Exercice 4

Administrateur@S02-05-T3420 MINGW64 ~/test (header)

$ git checkout master

Switched to branch 'master'

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git branch newfeature

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git checkout newfeature

Switched to branch 'newfeature'

Administrateur@S02-05-T3420 MINGW64 ~/test (newfeature)

$ git add feature.c

Administrateur@S02-05-T3420 MINGW64 ~/test (newfeature)

$ git status

On branch newfeature

Changes to be committed:

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

new file: feature.c

Untracked files:

(use "git add <file>..." to include in what will be committed)

TP1/

exo2.c

Administrateur@S02-05-T3420 MINGW64 ~/test (newfeature)

$ git commit -m "finished tp 4"

[newfeature 3ffddfd] finished tp 4

1 file changed, 1 insertion(+)

create mode 100644 feature.c

Administrateur@S02-05-T3420 MINGW64 ~/test (newfeature)

$ git checkout master

Switched to branch 'master'

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git add eco2.c

fatal: pathspec 'eco2.c' did not match any files

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git add exo2.c

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git commit -m "finished tp 4 master"

[master b3dd174] finished tp 4 master

1 file changed, 1 insertion(+)

create mode 100644 exo2.c

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git rm exo2.c

rm 'exo2.c'

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git commit -m "finished tp 4-delete"

[master f9506ec] finished tp 4-delete

1 file changed, 1 deletion(-)

delete mode 100644 exo2.c

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git add exo2.c

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git commit -m "finished tp 4-reajout"

[master 30121e7] finished tp 4-reajout

1 file changed, 1 insertion(+)

create mode 100644 exo2.c

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git status

On branch master

Untracked files:

(use "git add <file>..." to include in what will be committed)

TP1/

Erreur (partir toujours de la branche principale)

Exercice 5

Rebase photos 14h55

Exercice 6

Cle ssh

Administrateur@S02-05-T3420 MINGW64 ~ (master)

$ ssh-keygen -t ed25519 -C "domotiq.verdelay@gmail.com"

Generating public/private ed25519 key pair.

Enter file in which to save the key (/c/Users/Administrateur/.ssh/id\_ed25519): cle\_private

Enter passphrase (empty for no passphrase):

Enter same passphrase again:

Passphrases do not match. Try again.

Enter passphrase (empty for no passphrase):

Enter same passphrase again:

Your identification has been saved in cle\_private

Your public key has been saved in cle\_private.pub

The key fingerprint is:

SHA256:Cg19y4m/acXpFSlE4SIxTvxCQm9tPPTS19MH7/+X4cw domotiq.verdelay@gmail.com

The key's randomart image is:

+--[ED25519 256]--+

| ...+ ..o. . |

| .=o\* +. . + |

| .o\*.O.+ ..o +|

| +.\*.\*..o o.|

| . o.S. o . .|

| . o + . ..|

| . .o . + +|

| .o. Eo|

| .o o|

+----[SHA256]-----+

Administrateur@S02-05-T3420 MINGW64 ~ (master)

$ ssh-keygen -t ed25519 -C "domotiq.verdelay@gmail.com"

Generating public/private ed25519 key pair.

Enter file in which to save the key (/c/Users/Administrateur/.ssh/id\_ed25519): cle\_private

cle\_private already exists.

Overwrite (y/n)? y

Enter passphrase (empty for no passphrase):

Enter same passphrase again:

Your identification has been saved in cle\_private

Your public key has been saved in cle\_private.pub

The key fingerprint is:

SHA256:3YxqdRSBd2937VwWMPw6FukkzKhpa2IZn7zbfU7HspY domotiq.verdelay@gmail.com

The key's randomart image is:

+--[ED25519 256]--+

| .++. |

| . .oo. |

| +...o.o|

| o O + .O|

| S + B o=+|

| . + o . =. o|

| \* = .ooo |

| + B. . .E+ |

| . ooo. .+o |

+----[SHA256]-----+

Administrateur@S02-05-T3420 MINGW64 ~ (master)

$ Generating public/private ALGORITHM key pair

bash: Generating: command not found

Administrateur@S02-05-T3420 MINGW64 ~ (master)

$ eval "$(ssh-agent -s)"

Agent pid 1448

Administrateur@S02-05-T3420 MINGW64 ~ (master)

$ ssh-add ~/.ssh/id\_ed25519

/c/Users/Administrateur/.ssh/id\_ed25519: No such file or directory

Administrateur@S02-05-T3420 MINGW64 ~ (master)

$ ssh-add ~/.ssh/cle\_private

/c/Users/Administrateur/.ssh/cle\_private: No such file or directory

Administrateur@S02-05-T3420 MINGW64 ~ (master)

$ ssh-add ~/cle\_private

Identity added: /c/Users/Administrateur/cle\_private (domotiq.verdelay@gmail.com)

Clone sur git

Administrateur@S02-05-T3420 MINGW64 ~/test (master)

$ git clone https://github.com/Verdelay49/MAIN.git

Cloning into 'MAIN'...

remote: Enumerating objects: 6, done.

remote: Counting objects: 100% (6/6), done.

remote: Compressing objects: 100% (3/3), done.

remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0

Receiving objects: 100% (6/6), done.

Exercice 7