

TUTORIAL PARA EL USO BÁSICO DE GIT

Carlos Acosta, Jesús Flores, Roberto Guerrero y Rodrigo Galeano

DIPLOMADO Linux Embebido

Objetivo

Este tutorial pretende mostrar al lector la utilización de Git para el desarrollo colaborativo de software, a través de la creación de un repositorio que aloje nuestro proyecto que desarrollaremos.

Se abordaran tópicos como:

- Crear un repositorio utilizando Git
- Clonarlo entre sus colaboradores
- Intercambiar cambios
- Crear una rama estable
- Crear tags de versiones
- Uso de change log

Tutorial

Reposito Principal

Establecimiento de conexión con ssh, se generan las claves públicas de los usuarios. Tras generarlas, cada usuario ha de encargarse de enviar su clave pública a quien administre el repositorio principal

```
Terminal - jesus@kimpine: ~ Terminal - jesus@kimpine: ~
jesus@kimpine:~$ ssh
ssh      ssh-add      ssh-agent      ssh-argv0      ssh-copy-id      ssh-keygen      ssh-keyscan
jesus@kimpine:~$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/jesus/.ssh/id_rsa):
/home/jesus/.ssh/id_rsa already exists.
Overwrite (y/n)? Y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/jesus/.ssh/id_rsa.
Your public key has been saved in /home/jesus/.ssh/id_rsa.pub.
The key fingerprint is:
a8:b4:56:be:af:4a:d9:5e:90:1a:d8:a1:a8:69 jesus@kimpine
The key's randomart image is:
+---[RSA 2048]----+
| . . . . . . . . . |
| . . . . . . . . . |
| . . . . . . . . . |
| . . . . . . . . . |
| . . . . . . . . . |
| . . . . . . . . . |
| . . . . . . . . . |
| . . . . . . . . . |
| . . . . . . . . . |
+-----+
jesus@kimpine:~$ cat ~/.ssh/id_rsa.pub | ssh parallels@192.168.0.106 'cat - >> ~/.ssh/authorized_keys'
The authenticity of host '192.168.0.106 (192.168.0.106)' can't be established.
ECDSA key fingerprint is e4:a5:dc:1b:cb:df:71:ce:d9:b5:3c:d7:c3:a0:31:57.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.0.106' (ECDSA) to the list of known hosts.
parallels@192.168.0.106's password:
jesus@kimpine:~$ cat ~/.ssh/id_rsa.pub | ssh carlos@192.168.0.105 'cat - >> ~/.ssh/authorized_keys'
ssh: connect to host 192.168.0.105 port 22: No route to host
jesus@kimpine:~$ cat ~/.ssh/id_rsa.pub | ssh carlos@192.168.0.105 'cat - >> ~/.ssh/authorized_keys'
The authenticity of host '192.168.0.105 (192.168.0.105)' can't be established.
ECDSA key fingerprint is 41:4b:53:02:e4:d9:64:3b:c7:4c:d4:23:65:08:d7:12.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.0.105' (ECDSA) to the list of known hosts.
carlos@192.168.0.105's password:
jesus@kimpine:~$
```

Se crea el repositorio centralizado.

Se crea la carpeta RepoPrincipal.git e iniciamos el repositorio en esta carpeta con el comando git init.

También se edita el archivo README con vi. Con el comando git status, vemos el estado del repositorio.

```
Terminal - jesus@kimpine: ~/RepoPrincipal.git
jesus@kimpine:~$ mkdir RepoPrincipal.git
jesus@kimpine:~$ cd RepoPrincipal.git/
jesus@kimpine:~/RepoPrincipal.git$ git init
Initialized empty Git repository in /home/jesus/RepoPrincipal.git/.git/
jesus@kimpine:~/RepoPrincipal.git$ vim README
jesus@kimpine:~/RepoPrincipal.git$ git status
On branch master

Initial commit

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

    README

nothing added to commit but untracked files present (use "git add" to track)
jesus@kimpine:~/RepoPrincipal.git$ git add README
jesus@kimpine:~/RepoPrincipal.git$ git commit
```

Git nos marca que no se ha añadido el archivo README con Git. Procedemos añadir el README con git add README y después hacemos commit con git commit.

Se añaden los repositorios los repositorios de Roberto y Carlos con el comando git remote add

```
README

nothing added to commit but untracked files present (use "git add" to track)
jesus@kimpine:~/RepoPrincipal.git$ git add README
jesus@kimpine:~/RepoPrincipal.git$ git commit
[master (root-commit) 96d3c06] Commit inicial del repo principal  Initial commit      new file: README
  1 file changed, 1 insertion(+)
   create mode 100644 README
jesus@kimpine:~/RepoPrincipal.git$ git remote add roberto ssh://parallels@192.168.0.106/home/parallels/RepoRoberto
jesus@kimpine:~/RepoPrincipal.git$ git remote add carlos ssh://carlos@192.168.0.105/home/carlos/ProyectoARCA_CV
jesus@kimpine:~/RepoPrincipal.git$ git remote -v
carlos  ssh://carlos@192.168.0.105/home/carlos/ProyectoARCA_CV (fetch)
carlos  ssh://carlos@192.168.0.105/home/carlos/ProyectoARCA_CV (push)
roberto ssh://parallels@192.168.0.106/home/parallels/RepoRoberto (fetch)
roberto ssh://parallels@192.168.0.106/home/parallels/RepoRoberto (push)
jesus@kimpine:~/RepoPrincipal.git$
```

Se añaden los repositorios remotos de jesus, carlos y Roberto para que puedan colaborar con Repo Principal

```
Terminal - jesus@kimpine: ~/RepoPrincipal.git
jesus@kimpine:~/RepoPrincipal.git$ git remote add jesus ../Repo
RepoJesus.git/
jesus@kimpine:~/RepoPrincipal.git$ git remote add jesus ../RepoJesus.git
jesus@kimpine:~/RepoPrincipal.git$ git remote -v
carlos ssh://carlos@192.168.0.105/home/carlos/ProyectoARCA_CV (fetch)
carlos ssh://carlos@192.168.0.105/home/carlos/ProyectoARCA_CV (push)
jesus ../RepoJesus.git (fetch)
jesus ../RepoJesus.git (push)
roberto ssh://parallels@192.168.0.106/home/parallels/RepoRoberto (fetch)
roberto ssh://parallels@192.168.0.106/home/parallels/RepoRoberto (push)
jesus@kimpine:~/RepoPrincipal.git$ 
```

Se añaden los cambios que tienen los repositorios remotos con git fetch. Al completarse el fetch, con el comando git branch -a, vemos las ramas que tiene RepoPrincipal. Destaca la rama master que es la principal y las remotas son ramas que se desprenden de master.

```
jesus@kimpine:~/RepoPrincipal.git$ git fetch --all
Fetching roberto
warning: no common commits
remote: Counting objects: 14, done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 14 (delta 2), reused 0 (delta 0)
Unpacking objects: 100% (14/14), done.
From ssh://192.168.0.106/home/parallels/RepoRoberto
 * [new branch]      master      -> roberto/master
Fetching carlos
warning: no common commits
remote: Counting objects: 26, done.
remote: Compressing objects: 100% (23/23), done.
remote: Total 26 (delta 3), reused 0 (delta 0)
Unpacking objects: 100% (26/26), done.
From ssh://192.168.0.105/home/carlos/ProyectoARCA_CV
 * [new branch]      master      -> carlos/master
Fetching jesus
From ../RepoJesus
 * [new branch]      master      -> jesus/master
jesus@kimpine:~/RepoPrincipal.git$ git branch -a
* master
  remotes/carlos/master
  remotes/jesus/master
  remotes/roberto/master
jesus@kimpine:~/RepoPrincipal.git$ 
```

Para incorporar los cambios con la rama principal se utiliza el comando git merge. Acá exemplificamos el merge de la rama carlos con la rama master, pero git detecta un conflicto porque el archivo README ha sido modificado en la misma parte en las dos ramas. También vemos que listos para agregar cambios son los 5 archivos en verde que se muestran, ya que al ser archivos que no están en la rama master, estos se pueden agregar sin problemas al ejecutar un commit.

```
remotes/roberto/master
jesus@kimpine:~/RepoPrincipal.git$ git merge --help
jesus@kimpine:~/RepoPrincipal.git$ git merge carlos/master
Auto-merging README
CONFLICT (add/add): Merge conflict in README
Automatic merge failed; fix conflicts and then commit the result.
jesus@kimpine:~/RepoPrincipal.git$ git status
On branch master
You have unmerged paths.
  (fix conflicts and run "git commit")

Changes to be committed:

  new file:    main.c
  new file:    moduloA/moduloA.c
  new file:    moduloC/primo.c
  new file:    moduloC/primo.h
  new file:    moduloC/principal.c

Unmerged paths:
  (use "git add <file>..." to mark resolution)

    both added:      README

jesus@kimpine:~/RepoPrincipal.git$ vim README
jesus@kimpine:~/RepoPrincipal.git$ git add README
jesus@kimpine:~/RepoPrincipal.git$ █
```

Con el comando git log, observaremos una salida como la siguiente que representa el historial de commits.

Se muestra el identificador del commit, autor, fecha del commit, título del commit y algún otra información relacionada a avisos propios del commit, como conflictos.

```
Terminal - jesus@kimpine: ~/RepoPrincipal.git
commit 014d02d38237e9891a90424525841f031f91dae6
Merge: 96d3c06 dad6a31
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 15:41:52 2016 -0600

    Merge remote-tracking branch 'carlos/master'

    Fetch de la rama remota de carlos

    Conflicts:
        README

        modified:   README
        new file:   main.c
        new file:   moduloA/moduloA.c
        new file:   moduloC/primo.c
        new file:   moduloC/primo.h
        new file:   moduloC/principal.c

commit 96d3c065e737791012ab9ddb7fdd827551edb76
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 15:31:56 2016 -0600

    Commit inicial del repo principal
    Initial commit
        new file:  README

commit dad6a311dd59c47fb14bf96d8d2c72439d895ec6
Merge: aa6e44c 215d45c
Author: Carlos Acosta <arcal1983@live.com.mx>
Date:   Sat Apr 2 15:20:17 2016 -0600

    Arregle los conflictos al momento de mezclar

    Conflicts:
        README
        main.c

commit aa6e44c28elfafb85fa3295b0c37028dd1f94cc8
Author: Carlos Acosta <arcal1983@live.com.mx>
Date:   Sat Apr 2 15:04:39 2016 -0600

    Agrege la carpeta que contiene la funcion para calcular primos

commit 215d45cdc5653e4b36f963dd43353c54e1670455
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 15:02:48 2016 -0600
:□
```

Al ejecutar el comando git branch -a, nos mostrara las ramas actuales de nuestro repositorio, así como la rama actual sobre la que estamos trabajando especificada con un asterisco.

Con el comando git merge se une una rama secundaria con master.

```
Date: Sat Apr 2 15:02:48 2016 -0600
jesus@kimpine:~/RepoPrincipal.git$ git branch -a
* master
  remotes/carlos/master
  remotes/jesus/master
  remotes/roberto/master
jesus@kimpine:~/RepoPrincipal.git$ git merge jesus/master
Already up-to-date.
jesus@kimpine:~/RepoPrincipal.git$ git status
On branch master
nothing to commit, working directory clean
jesus@kimpine:~/RepoPrincipal.git$ git merge roberto/master
Auto-merging main.c
CONFLICT (add/add): Merge conflict in main.c
Auto-merging README
CONFLICT (add/add): Merge conflict in README
Automatic merge failed; fix conflicts and then commit the result.
jesus@kimpine:~/RepoPrincipal.git$ █
```

Dado que se tuvo conflictos en el README se procede a modificarlo para que se puede hacer el commit correspondiente.

```
Terminal - jesus@kimpine: ~/RepoPrincipal.git
# Repo Principal

Diplomado Sistemas Embebidos
Este es el proyecto de Control de Versiones

Carlos Acosta
Roberto Guerrero
█
~
~
~
~
```

Lo mismo del archivo README sucedió con main.c

```
Terminal - jesus@kimpine: ~/RepoPrincipal.git
#include <stdio.h>

main()
{
    print("Hola Soy Carlos");
    printf("Este es mi printf: Jesus");
    printf("Roberto Guerrero Zurita");
}
~
~
~
```

Al ver el estado del repo, nos muestra en letras verdes los archivos que tenemos listos para confirmar.

```
Automatic merge failed; fix conflicts and then commit the result.
jesus@kimpine:~/RepoPrincipal.git$ git status
On branch master
You have unmerged paths.
  (fix conflicts and run "git commit")

Changes to be committed:

  new file:  moduloB/moduloB.c

Unmerged paths:
  (use "git add <file>..." to mark resolution)

    both added:    README
    both added:    main.c

jesus@kimpine:~/RepoPrincipal.git$ vim README
jesus@kimpine:~/RepoPrincipal.git$ vim main.c
jesus@kimpine:~/RepoPrincipal.git$ git status
On branch master
You have unmerged paths.
  (fix conflicts and run "git commit")

Changes to be committed:

  new file:  moduloB/moduloB.c

Unmerged paths:
  (use "git add <file>..." to mark resolution)

    both added:    README
    both added:    main.c

jesus@kimpine:~/RepoPrincipal.git$ git add README main.c
jesus@kimpine:~/RepoPrincipal.git$
```

Vemos log de commits después de un merge con la rama Roberto.

```
Terminal - jesus@kimpine: ~/RepoPrincipal.git
commit 75cd5ecf560b030407b8c20d384b7e4aaea55f4
Merge: 014d02d a684f28
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 15:45:14 2016 -0600

    Merge remote-tracking branch 'roberto/master'

    Fetch de repo roberto

    Conflicts:
        README
        main.c

        modified:   README
        modified:   main.c
        new file:   moduloB/moduloB.c

commit 014d02d38237e9891a90424525841f031f91dae6
Merge: 96d3c06 dad6a31
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 15:41:52 2016 -0600

    Merge remote-tracking branch 'carlos/master'

    Fetch de la rama remota de carlos

    Conflicts:
        README

        modified:   README
        new file:   main.c
        new file:   moduloA/moduloA.c
        new file:   moduloC/primo.c
        new file:   moduloC/primo.h
        new file:   moduloC/principal.c

commit 96d3c065e737791012ab9ddb7fd827551edb76
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 15:31:56 2016 -0600

    Commit inicial del repo principal
    Initial commit
        new file:   README

commit dad6a311dd59c47fb14bf96d8d2c72439d895ec6
Merge: aa6e44c 215d45c
Author: Carlos Acosta <arca1983@live.com.mx>
:█
```

Para crear una nueva rama se tiene el comando git checkout [nombreRama]. Con git status verificamos que nos encontramos en esa rama al tener el asterisco en el stable/alfa.

```
Terminal - jesus@kimpine: ~/RepoPrincipal.git
jesus@kimpine:~/RepoPrincipal.git$ ls
main.c moduloA moduloB moduloC README
jesus@kimpine:~/RepoPrincipal.git$ git checkout -b stable/alfa
Switched to a new branch 'stable/alfa'
jesus@kimpine:~/RepoPrincipal.git$ git branch -a
  master
* stable/alfa
  remotes/carlos/master
  remotes/jesus/master
  remotes/roberto/master
jesus@kimpine:~/RepoPrincipal.git$ ls
main.c moduloA moduloB moduloC README
jesus@kimpine:~/RepoPrincipal.git$ vim main.c
jesus@kimpine:~/RepoPrincipal.git$ git status
On branch stable/alfa
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   main.c

no changes added to commit (use "git add" and/or "git commit -a")
```

Se modifica el archivo main.c para corregir los conflictos. Se añade con git add y se confirma con git commit.

```
no changes added to commit (use "git add" and/or "git commit -a")
jesus@kimpine:~/RepoPrincipal.git$ git add main.c
jesus@kimpine:~/RepoPrincipal.git$ git commit
[stable/alfa 8a13f80] Se agrego el nombre de documentador oficial      modified:   main.c
 1 file changed, 2 insertions(+)
jesus@kimpine:~/RepoPrincipal.git$ git status
On branch stable/alfa
nothing to commit, working directory clean
jesus@kimpine:~/RepoPrincipal.git$ vim main.c
jesus@kimpine:~/RepoPrincipal.git$ vim main.c
jesus@kimpine:~/RepoPrincipal.git$ git status
On branch stable/alfa
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   main.c

no changes added to commit (use "git add" and/or "git commit -a")
jesus@kimpine:~/RepoPrincipal.git$ git add main.c
jesus@kimpine:~/RepoPrincipal.git$
```

Log actualizado con el último commit realizado para el archivo main.c

```
Terminal - jesus@kimpine: ~/RepoPrincipal.git
commit 85dclaeaa6adcf2d4e1cde647d9f97f99bb0293b
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 15:54:52 2016 -0600

    Esta es la version 1.0
    modified:   main.c

commit 8a13f8068b0a7a9ace05d49f1bd230c4a77d5460
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 15:52:17 2016 -0600

    Se agrego el nombre de documentador oficial
    modified:   main.c

commit 75cd5ecf560b030407b8c20d384b7e4aaeaf55f4
Merge: 014d02d a684f28
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 15:45:14 2016 -0600

    Merge remote-tracking branch 'roberto/master'

    Fetch de repo roberto

    Conflicts:
        README
        main.c

        modified:   README
        modified:   main.c
        new file:   moduloB/moduloB.c

commit 014d02d38237e9891a90424525841f031f91dae6
Merge: 96d3c06 dad6a31
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 15:41:52 2016 -0600

    Merge remote-tracking branch 'carlos/master'

    Fetch de la rama remota de carlos

    Conflicts:
        README

        modified:   README
        new file:   main.c
        new file:   moduloA/moduloA.c
        new file:   moduloC/primo.c
:□
```

Para crear etiquetas, git dispone de git tag. Con esta herramienta podemos etiquetar el estado de nuestro repositorio para una mejor referencia. Con show tag [versión], vemos la versión a la que nos estamos refiriendo.

```
new file: moduloC/primo.c
jesus@kimpine:~/RepoPrincipal.git$ git branch -a
  master
* stable/alfa
  remotes/carlos/master
  remotes/jesus/master
  remotes/roberto/master
jesus@kimpine:~/RepoPrincipal.git$ git tag -a v1.0 -m "Esta es la version 1.0 de alfa"
jesus@kimpine:~/RepoPrincipal.git$ git tag
v1.0
jesus@kimpine:~/RepoPrincipal.git$ git show v1.0
tag v1.0
Tagger: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 15:56:27 2016 -0600

Esta es la version 1.0 de alfa

commit 85dclaeea6adcf2d4e1cde647d9f97f99bb0293b
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 15:54:52 2016 -0600

    Esta es la version 1.0
    modified: main.c

diff --git a/main.c b/main.c
index 889f1f4..aa28ba5 100644
--- a/main.c
+++ b/main.c
@@ -1,5 +1,9 @@
 #include <stdio.h>

+/*
+* Esta es la version 1.0 de la rama
+* alfa, se completo los requerimientos
+*/
main()
{

jesus@kimpine:~/RepoPrincipal.git$ 
```

Se crea con git checkout la rama desarrollo. Se crea el archivo /moduloD/moduloD.c y al hacer un git status, git observa que no hay nada por confirmar, pero que detecta que hay un archivo en el directorio que no hemos añadido. Por supuesto es /moduloD/moduloD.c

```
/*
main()
{

jesus@kimpine:~/RepoPrincipal.git$ git branch -a
  master
* stable/alfa
  remotes/carlos/master
  remotes/jesus/master
  remotes/roberto/master
jesus@kimpine:~/RepoPrincipal.git$ git checkout -b desarrollo
Switched to a new branch 'desarrollo'
jesus@kimpine:~/RepoPrincipal.git$ git branch -a
* desarrollo
  master
  stable/alfa
  remotes/carlos/master
  remotes/jesus/master
  remotes/roberto/master
jesus@kimpine:~/RepoPrincipal.git$ ls
main.c moduloA moduloB moduloC README
jesus@kimpine:~/RepoPrincipal.git$ mkdir moduloD
jesus@kimpine:~/RepoPrincipal.git$ ls
main.c moduloA moduloB moduloC moduloD README
jesus@kimpine:~/RepoPrincipal.git$ vim moduloD/moduloD.c
jesus@kimpine:~/RepoPrincipal.git$ git status
On branch desarrollo
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    moduloD/

nothing added to commit but untracked files present (use "git add" to track)
jesus@kimpine:~/RepoPrincipal.git$ git add moduloD/moduloD.c
```

Al modificar un archivo ya existente, pero sin haberlo añadido, git status nos dirá que el archivo fue modificado (main.c) pero espera que lo añadamos para descartar que se haya modificado por error y se pueda hacer su commit

```
jesus@kimpine:~/RepoPrincipal.git$ vim moduloD/moduloD.c
jesus@kimpine:~/RepoPrincipal.git$ git status
On branch desarrollo
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    moduloD/

nothing added to commit but untracked files present (use "git add" to track)
jesus@kimpine:~/RepoPrincipal.git$ git add moduloD/moduloD.c
jesus@kimpine:~/RepoPrincipal.git$ git commit
[desarrollo cd42f5d] Se agrego modulo D      new file: moduloD/moduloD.c
  1 file changed, 5 insertions(+)
   create mode 100644 moduloD/moduloD.c
jesus@kimpine:~/RepoPrincipal.git$ vim main.c
jesus@kimpine:~/RepoPrincipal.git$ git status
On branch desarrollo
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified: main.c

no changes added to commit (use "git add" and/or "git commit -a")
jesus@kimpine:~/RepoPrincipal.git$ git add main.c
jesus@kimpine:~/RepoPrincipal.git$ git commit
[desarrollo 0bff0ba] Terminando la version 1.1 modified: main.c
  1 file changed, 2 insertions(+), 2 deletions(-)
jesus@kimpine:~/RepoPrincipal.git$ git branch -a
* desarrollo
  master
  stable/alfa
  remotes/carlos/master
  remotes/jesus/master
  remotes/roberto/master
jesus@kimpine:~/RepoPrincipal.git$ git checkout -b stable/beta
Switched to a new branch 'stable/beta'
```

Se crea la rama stable/beta para trabajar con la versión v1.1

```
remotes/roberto/master
jesus@kimpine:~/RepoPrincipal.git$ git checkout -b stable/beta
Switched to a new branch 'stable/beta'
jesus@kimpine:~/RepoPrincipal.git$ git branch -a
  desarrollo
  master
  stable/alfa
* stable/beta
  remotes/carlos/master
  remotes/jesus/master
  remotes/roberto/master
jesus@kimpine:~/RepoPrincipal.git$ 
```

Se modifica el archivo main.c, se añade y se raliza el commit mejorando el proyecto a la versión v1.1

```
Terminal - jesus@kimpine: ~/RepoPrincipal.git
commit obff0ba6131cf7933dad630bc96810229767b4a3
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 16:05:35 2016 -0600

    Terminando la version 1.1
    modified:   main.c

commit cd42f5d25f440aa010e0f1c7880aea4970797fc
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 16:03:20 2016 -0600

    Se agrego modulo D
    new file:   moduloD/moduloD.c

commit 85dclae6a6adcf2d4e1cde647d97f99bb0293b
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 15:54:52 2016 -0600

    Esta es la version 1.0
    modified:   main.c

commit 8a13f8068b0a7a9ace05d49f1bd230c4a77d6460
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 15:52:17 2016 -0600

    Se agrego el nombre de documentador oficial
    modified:   main.c

commit 75cd5ecf560b030407b8c20d384b7e4aaeaf55f4
Merge: 014d02d a684f28
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 15:45:14 2016 -0600

    Merge remote-tracking branch 'roberto/master'

    Fetch de repo roberto

    Conflicts:
        README
        main.c

        modified:   README
        modified:   main.c
        new file:   moduloB/moduloB.c

commit 014d02d38237e9891a90424525841f031f91dae6
Merge: 96d3c06 dad6a31
:□
```

Se crea la versión 1.1 con git tag y con git show nos muestra la versión actual con las diferencia con su predecesora.

```
Merge: 96d3c06 dad6a31
jesus@kimpine:~/RepoPrincipal.git$ git tag -a v1.1 -m "Esta es la version 1.1 de beta"
jesus@kimpine:~/RepoPrincipal.git$ git tag
v1.0
v1.1
jesus@kimpine:~/RepoPrincipal.git$ git show v1.1
tag v1.1
Tagger: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 16:07:00 2016 -0600

Esta es la version 1.1 de beta

commit obff0ba6131cf7933dad630bc96810229767b4a3
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 16:05:36 2016 -0600

    Terminando la version 1.1
        modified:   main.c

diff --git a/main.c b/main.c
index aa28ba5..7441528 100644
--- a/main.c
+++ b/main.c
@@ -1,8 +1,8 @@
 #include <stdio.h>

 /**
-* Esta es la version 1.0 de la rama
-* alfa, se completo los requerimientos
+* Esta es la version 1.1 con el modulo D,
+* se completo los requerimientos
 */
main()
{
jesus@kimpine:~/RepoPrincipal.git$ █
```

Con el comando git log y los parametros –date y –pretty podemos obtener un log con formato. Es muy útil si queremos utilizar esta información como datos de entrada a otro programa

```
Terminal - jesus@kimpine: ~/RepoPrincipal.git
commit 75cd5ecf560b030407b8c20d384b7e4aaeaf55f4
Merge: 014d02d a684f28
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 15:45:14 2016 -0600

    Merge remote-tracking branch 'roberto/master'

    Fetch de repo roberto

    Conflicts:
        README
        main.c

        modified: README
        modified: main.c
        new file: moduloB/moduloB.c

commit 014d02d38237e9891a90424525841f031f91dae6
Merge: 96d3c06 dad6a31
jesus@kimpine:~/RepoPrincipal.git$ git log --date=short --pretty='%ad %s' > changelog
jesus@kimpine:~/RepoPrincipal.git$ cat changelog
2016-04-02 Terminando la version 1.1      modified: main.c
2016-04-02 Se agrego modulo D  new file: moduloD/moduloD.c
2016-04-02 Esta es la version 1.0      modified: main.c
2016-04-02 Se agrego el nombre de documentador oficial modified: main.c
2016-04-02 Merge remote-tracking branch 'roberto/master'
2016-04-02 Merge remote-tracking branch 'carlos/master'
2016-04-02 Commit inicial del repo principal Initial commit  new file: README
2016-04-02 Arregle los conflictos al momento de mezclar
2016-04-02 Agregue mi modulo para desarrollo A  new file: moduloA/moduloA.c
2016-04-02 Agrege la carpeta que contiene la funcion para calcular primos
2016-04-02 Agregue mi modulo para desarrollo A  new file: moduloA/moduloA.c
2016-04-02 Agrege el moduloB
2016-04-02 Desarrollando mi archivo main
2016-04-02 Cree el archivo main.c
2016-04-02 Agregue archivo main.c
2016-04-02 Agregue el archivo README Initial commit
2016-04-02 Agrege el archivo README
2016-04-02 Commit inicial mio Jesus Initial commit
jesus@kimpine:~/RepoPrincipal.git$ git add changelog
jesus@kimpine:~/RepoPrincipal.git$ git status
On branch stable/beta
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:  changelog

jesus@kimpine:~/RepoPrincipal.git$ git commit [ ]
```

Se muestra la versión actualizada de v1.1 con el fichero changelog.

```
Terminal - jesus@kimpine: ~/RepoPrincipal.git Terminal
jesus@kimpine:~/RepoPrincipal.git$ git tag -a v1.1 -m "Esta es la version 1.1 de beta"
jesus@kimpine:~/RepoPrincipal.git$ git show v1.1
tag v1.1
Tagger: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 16:27:11 2016 -0600

Esta es la version 1.1 de beta

commit bf050ea608b2c8811afc8b63891d7a1abddbe80a
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 16:25:50 2016 -0600

    Se agrego el changelog de rama stable/beta
        new file:   changelog

diff --git a/changelog b/changelog
new file mode 100644
index 0000000..501450d
--- /dev/null
+++ b/changelog
@@ -0,0 +1,18 @@
+2016-04-02 Terminando la version 1.1 modified: main.c
+2016-04-02 Se agrego modulo D new file: moduloD/moduloD.c
+2016-04-02 Esta es la version 1.0 modified: main.c
+2016-04-02 Se agrego el nombre de documentador oficial modified: main.c
+2016-04-02 Merge remote-tracking branch 'roberto/master'
+2016-04-02 Merge remote-tracking branch 'carlos/master'
+2016-04-02 Commit inicial del repo principal Initial commit new file: README
+2016-04-02 Arregle los conflictos al momento de mezclar
+2016-04-02 Agregue mi modulo para desarrollo A new file: moduloA/moduloA.c
+2016-04-02 Agrege la carpeta que contiene la funcion para calcular primos
+2016-04-02 Agregue mi modulo para desarrollo A new file: moduloA/moduloA.c
+2016-04-02 Agrege el moduloB
+2016-04-02 Desarrollando mi archivo main
+2016-04-02 Cree el archivo main.c
+2016-04-02 Agregue archivo main.c
+2016-04-02 Agregue el archivo README Initial commit
+2016-04-02 Agrege el archivo README
+2016-04-02 Commit inicial mio Jesus Initial commit
jesus@kimpine:~/RepoPrincipal.git$
```

Se sube la rama master de RepoPrincipal a github

```
Terminal - jesus@kimpine: ~/RepoPrincipal.git Terminal - jesus@kimpine
jesus@kimpine:~/RepoPrincipal.git$ git checkout master
Switched to branch 'master'
jesus@kimpine:~/RepoPrincipal.git$ git branch -a
  desarrollo
* master
  stable/alfa
  stable/beta
  remotes/carlos/master
  remotes/jesus/master
  remotes/roberto/master
jesus@kimpine:~/RepoPrincipal.git$ git remote add origin https://github.com/stokekld/ProyectoFinalCV.git
jesus@kimpine:~/RepoPrincipal.git$
```

}

Se hace lo mismo para las demás ramas

```
Terminal - jesus@kimpine: ~/RepoPrincipal.git          Terminal - jesus@kimpine:  
  remotes/carlos/master  
  remotes/jesus/master  
  remotes/roberto/master  
junto@kimpine:~/RepoPrincipal.git$ git remote add origin https://github.com/stokekld/ProyectoFinalCV.git  
junto@kimpine:~/RepoPrincipal.git$ git push origin master  
Username for 'https://github.com': stokekld  
Password for 'https://stokekld@github.com':  
Counting objects: 48, done.  
Delta compression using up to 2 threads.  
Compressing objects: 100% (38/38), done.  
Writing objects: 100% (48/48), 5.21 KiB | 0 bytes/s, done.  
Total 48 (delta 6), reused 0 (delta 0)  
To https://github.com/stokekld/ProyectoFinalCV.git  
 * [new branch]      master -> master  
junto@kimpine:~/RepoPrincipal.git$ git push origin desarrollo  
Username for 'https://github.com': stokekld  
Password for 'https://stokekld@github.com':  
Counting objects: 13, done.  
Delta compression using up to 2 threads.  
Compressing objects: 100% (12/12), done.  
Writing objects: 100% (13/13), 1.33 KiB | 0 bytes/s, done.  
Total 13 (delta 6), reused 0 (delta 0)  
To https://github.com/stokekld/ProyectoFinalCV.git  
 * [new branch]      desarrollo -> desarrollo  
junto@kimpine:~/RepoPrincipal.git$ git push origin stable/alfa  
Username for 'https://github.com': stokekld  
Password for 'https://stokekld@github.com':  
Counting objects: 3, done.  
Delta compression using up to 2 threads.  
Compressing objects: 100% (3/3), done.  
Writing objects: 100% (3/3), 645 bytes | 0 bytes/s, done.  
Total 3 (delta 1), reused 0 (delta 0)  
To https://github.com/stokekld/ProyectoFinalCV.git  
 * [new branch]      stable/alfa -> stable/alfa  
junto@kimpine:~/RepoPrincipal.git$ git push origin stable/beta  
Username for 'https://github.com': stokekld  
Password for 'https://stokekld@github.com':  
Counting objects: 3, done.  
Delta compression using up to 2 threads.  
Compressing objects: 100% (3/3), done.  
Writing objects: 100% (3/3), 399 bytes | 0 bytes/s, done.  
Total 3 (delta 2), reused 0 (delta 0)  
To https://github.com/stokekld/ProyectoFinalCV.git  
 * [new branch]      stable/beta -> stable/beta  
junto@kimpine:~/RepoPrincipal.git$ git tag  
v1.0  
v1.1  
junto@kimpine:~/RepoPrincipal.git$ git push origin --tags
```

Repositorio Roberto

Como el procedimiento es bastante similar para todos los usuarios y la descripción haría muy grande el tutorial, se decidió describir el proceso para uno, pero que aplica bastante bien para los demás.

Primero se generan las claves públicas y se envían al servidor para establecer una conexión con ssh. Despues con el comando gitclone, clonamos a ProyectoModuloCV.git. Al ubicarnos en el directorio del mismo nombre e introducir git status nos dira que la rama origin/master está actualizada. Por defecto git nombra origin a los repositorios que clonamos. Para actualizar el repo tenemos el comando git fetch y nos pondrá al día nuestro repo.

```
parallels@ubuntu: ~/RepoRoberto
parallels@ubuntu:~$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/parallels/.ssh/id_rsa):
/home/parallels/.ssh/id_rsa already exists.
Overwrite (y/n)?
parallels@ubuntu:~$ cat ~/ssh/id_rsa.pub | ssh jesus@192.168.0.103 'cat - >~/ssh/authorized_keys'
The authenticity of host '192.168.0.103 (192.168.0.103)' can't be established.
ECDSA key fingerprint is d8:f2:c8:a2:db:87:29:52:59:45:d9:26:34:fe:f6:cc.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.0.103' (ECDSA) to the list of known hosts.
jesus@192.168.0.103's password:
parallels@ubuntu:~$ git clone ssh://jesus@192.168.0.103/home/jesus/ProyectoModuloCV.git
Cloning into 'ProyectoModuloCV'...
remote: Counting objects: 3, done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0)
Receiving objects: 100% (3/3), done.
Checking connectivity... done.
parallels@ubuntu:~$ git status
fatal: Not a git repository (or any of the parent directories): .git
parallels@ubuntu:~$ ls
Desktop Downloads fontconfig Music NetBeansProjects ProyectoModuloCV script.sh Videos
Documents examples.desktop glassfish-4.1.1 netbeans-8.1 Pictures Public Templates
parallels@ubuntu:~$ cd ProyectoModuloCV/
parallels@ubuntu:~/ProyectoModuloCV$ ls
README
parallels@ubuntu:~/ProyectoModuloCV$ git status
On branch master
Your branch is up-to-date with 'origin/master'.

nothing to commit, working directory clean
parallels@ubuntu:~/ProyectoModuloCV$ git fetch --all
Fetching origin
remote: Counting objects: 3, done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0)
Unpacking objects: 100% (3/3), done.
From ssh://192.168.0.103/home/jesus/ProyectoModuloCV
   ec1a8e7..ebe234a  master    -> origin/master
parallels@ubuntu:~/ProyectoModuloCV$ git status
On branch master
Your branch is behind 'origin/master' by 1 commit, and can be fast-forwarded.
  (use "git pull" to update your local branch)
```

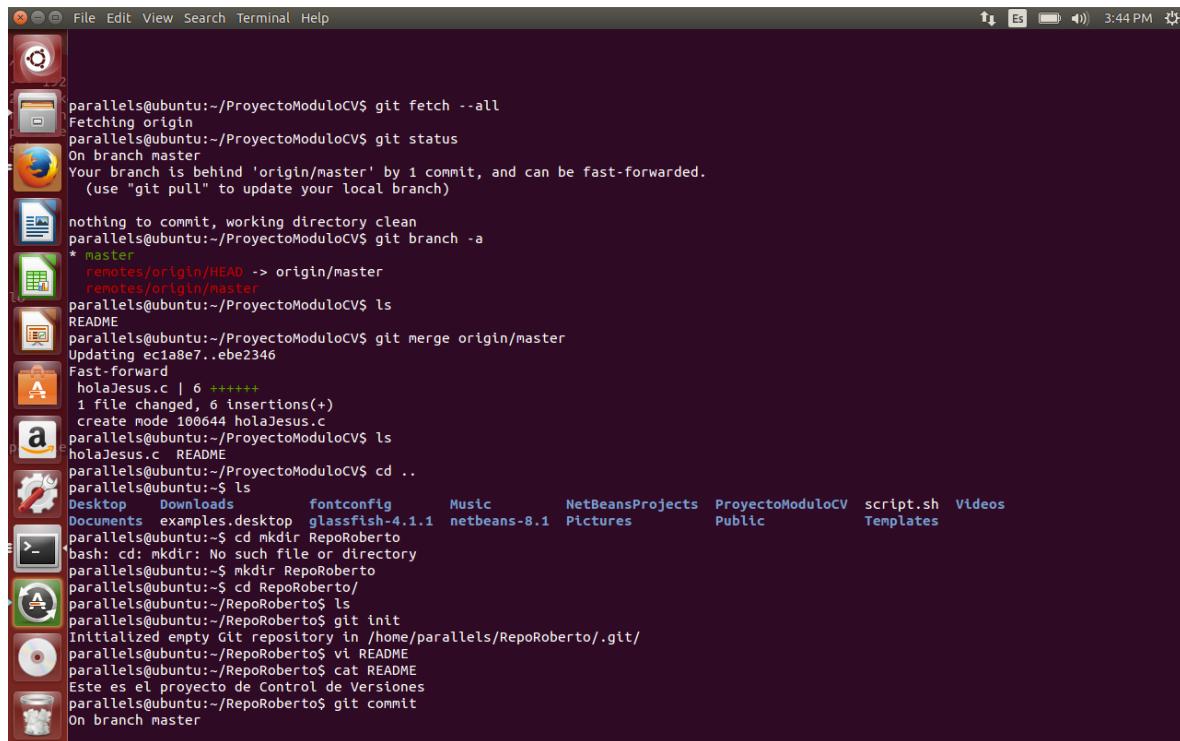
Al ejecutar git branch nos mostrará las ramas de nuestro repositorio

```
parallels@ubuntu: ~/RepoRoberto
parallels@ubuntu:~/ProyectoModuloCV$ git branch -a
* master
  remotes/origin/HEAD -> origin/master
  remotes/origin/master
parallels@ubuntu:~/ProyectoModuloCV$ clear

parallels@ubuntu:~/ProyectoModuloCV$ git branch -a
* master
  remotes/origin/HEAD -> origin/master
  remotes/origin/master
parallels@ubuntu:~/ProyectoModuloCV$ clear
```

Al aplicar git status, después de un git fetch, tenemos que en la rama origin/master ya se ha hecho un commit.

Al hacer gir merge origin/master, unimos nuestra rama master con la rama origin/ master
Se crea el RepoRoberto con git init, así como el archivo README para después hacer commit



```
parallels@ubuntu:~/ProyectoModulocV$ git fetch --all
Fetching origin
parallels@ubuntu:~/ProyectoModulocV$ git status
On branch master
Your branch is behind 'origin/master' by 1 commit, and can be fast-forwarded.
(use "git pull" to update your local branch)

nothing to commit, working directory clean
parallels@ubuntu:~/ProyectoModulocV$ git branch -a
* master
  remotes/origin/HEAD -> origin/master
  remotes/origin/master
parallels@ubuntu:~/ProyectoModulocV$ ls
README
parallels@ubuntu:~/ProyectoModulocV$ git merge origin/master
Updating ec1a8e7..ebe2346
Fast-forward
  holajesus.c | 6 ++++++
  1 file changed, 6 insertions(+)
  create mode 100644 holajesus.c
parallels@ubuntu:~/ProyectoModulocV$ ls
holajesus.c  README
parallels@ubuntu:~/ProyectoModulocV$ cd ..
parallels@ubuntu:~$ ls
Desktop  Downloads  fontconfig  Music      NetBeansProjects  ProyectoModulocV  script.sh  Videos
Documents examples.desktop glassfish-4.1.1 netbeans-8.1  Pictures    Public        Templates
parallels@ubuntu:~$ cd mkdir RepoRoberto
bash: cd: mkdir: No such file or directory
parallels@ubuntu:~$ mkdir RepoRoberto
parallels@ubuntu:~$ cd RepoRoberto/
parallels@ubuntu:~/RepoRoberto$ ls
parallels@ubuntu:~/RepoRoberto$ git init
Initialized empty Git repository in /home/parallels/RepoRoberto/.git/
parallels@ubuntu:~/RepoRoberto$ vi README
parallels@ubuntu:~/RepoRoberto$ cat README
Este es el proyecto de Control de Versiones
parallels@ubuntu:~/RepoRoberto$ git commit
On branch master
```

Para que Git registre el cambio necesitamos agregar el archivo con git add y despues se procede a hacer el commit.

Se crea un archivo main.c para ejemplificar el punto anterior

```
parallels@ubuntu: ~/RepoRoberto
parallels@ubuntu:~/RepoRoberto$ git commit
On branch master
Initial commit
Untracked files:
  README
nothing added to commit but untracked files present
parallels@ubuntu:~/RepoRoberto$ git add README
parallels@ubuntu:~/RepoRoberto$ git commit
[master (root-commit) 68b9452] Agregue el archivo README  Initial commit
  1 file changed, 1 insertion(+)
   create mode 100644 README
parallels@ubuntu:~/RepoRoberto$ git status
On branch master
nothing to commit, working directory clean
parallels@ubuntu:~/RepoRoberto$ git log
commit 68b945282ce4e6c2030a2e583e192fb66fda2468
Author: Roberto Guerrero <roberto.guerrero@gmail.com>
Date:   Sat Apr 2 14:55:46 2016 -0600

  Agregue el archivo README
  Initial commit
parallels@ubuntu:~/RepoRoberto$ vi main.c
parallels@ubuntu:~/RepoRoberto$ git add main.c
parallels@ubuntu:~/RepoRoberto$ git commit
[master e27482c] Agregue archivo main.c
  1 file changed, 1 insertion(+)
   create mode 100644 main.c
parallels@ubuntu:~/RepoRoberto$ git status
On branch master
nothing to commit, working directory clean
parallels@ubuntu:~/RepoRoberto$ git log
commit e27482cc1ad11703871f117aaa366d239ea1e582
Author: Roberto Guerrero <roberto.guerrero@gmail.com>
Date:   Sat Apr 2 14:58:43 2016 -0600

  Agregue archivo main.c
commit 68b945282ce4e6c2030a2e583e192fb66fda2468
Author: Roberto Guerrero <roberto.guerrero@gmail.com>
Date:   Sat Apr 2 14:55:46 2016 -0600
```

Se crea el archivo /moduloB/moduloB.c en RepoRoberto

Se añade y se realiza el comimit; git los nos muestra lo siguiente

```
parallels@ubuntu: ~/RepoRoberto
commit 68b945282ce4e6c2030a2e583e192fb66fda2468
Author: Roberto Guerrero <roberto.guerrero@gmail.com>
Date:   Sat Apr 2 14:55:46 2016 -0600

  Agregue el archivo README
  Initial commit
parallels@ubuntu:~/RepoRoberto$ ls
main.c  README
parallels@ubuntu:~/RepoRoberto$ mkdir moduloB
parallels@ubuntu:~/RepoRoberto$ cd moduloB/
parallels@ubuntu:~/RepoRoberto/moduloB$ vi moduloB.c
parallels@ubuntu:~/RepoRoberto/moduloB$ ls
moduloB.c
parallels@ubuntu:~/RepoRoberto/moduloB$ cd ..
parallels@ubuntu:~/RepoRoberto$ git add moduloB/moduloB.c
parallels@ubuntu:~/RepoRoberto$ git commit
[master 8681b2f] Agrege el moduloB
  1 file changed, 1 insertion(+)
   create mode 100644 moduloB/moduloB.c
parallels@ubuntu:~/RepoRoberto$ git log
commit 8681b2fc1ee118141fac0e9291e7cd45518e2fe6
Author: Roberto Guerrero <roberto.guerrero@gmail.com>
Date:   Sat Apr 2 15:01:58 2016 -0600

  Agrege el moduloB
commit e27482cc1ad11703871f117aaa366d239ea1e582
Author: Roberto Guerrero <roberto.guerrero@gmail.com>
Date:   Sat Apr 2 14:58:43 2016 -0600

  Agregue archivo main.c
commit 68b945282ce4e6c2030a2e583e192fb66fda2468
Author: Roberto Guerrero <roberto.guerrero@gmail.com>
Date:   Sat Apr 2 14:55:46 2016 -0600

  Agregue el archivo README
  Initial commit
parallels@ubuntu:~/RepoRoberto$ git remote add ssh://jesus@192.168.0.103/home/jesus/RepoJesus.git
usage: git remote add [<options>] <name> <url>

-f, --fetch          fetch the remote branches
--tags               import all tags and associated objects when fetching
```

Con git remote add, a través de ssh, se añade el RepoJesus.git

La rama que se nos asigna es /jesus/master, esta es la rama con la que trabajaremos.

```
parallels@ubuntu: ~/RepoRoberto
commit 68b945282ce4e6c2030a2e583e192fb66fda2468
Author: Roberto Guerrero <roberto.guerrero@gmail.com>
Date:   Sat Apr 2 14:55:46 2016 -0600

    Agregue el archivo README
    Initial commit
parallels@ubuntu:~/RepoRoberto$ git remote add ssh://jesus@192.168.0.103/home/jesus/RepoJesus.git
usage: git remote add [<options>] <name> <url>

-f, --fetch          fetch the remote branches
--tags              import all tags and associated objects when fetching
-t, --track <branch> branch(es) to track
-m, --master <branch>
                   master branch
--mirror[=<push|fetch>]
                   set up remote as a mirror to push to or fetch from

parallels@ubuntu:~/RepoRoberto$ git remote add jesus ssh://jesus@192.168.0.103/home/jesus/RepoJesus.git
parallels@ubuntu:~/RepoRoberto$ git remote -v
jesus  ssh://jesus@192.168.0.103/home/jesus/RepoJesus.git (fetch)
jesus  ssh://jesus@192.168.0.103/home/jesus/RepoJesus.git (push)
parallels@ubuntu:~/RepoRoberto$ git fetch --all
Fetching jesus
Warning: no common commits
remote: Counting objects: 10, done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 10 (delta 1), reused 0 (delta 0)
Unpacking objects: 100% (10/10), done.
From ssh://192.168.0.103/home/jesus/RepoJesus
 * [new branch]      master      -> jesus/master
parallels@ubuntu:~/RepoRoberto$ git branch -a
* master
  remotes/jesus/master
parallels@ubuntu:~/RepoRoberto$ git checkout remotes/jesus/master
Note: checking out 'remotes/jesus/master'.
You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by performing another checkout.
If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -b with the checkout command again. Example:
```

Con git checkout podemos movernos entre nuestras ramas locales y remotas.

```
parallels@ubuntu: ~/RepoRoberto
parallels@ubuntu:~/RepoRoberto$ git branch -a
* master
  remotes/jesus/master
parallels@ubuntu:~/RepoRoberto$ git checkout remotes/jesus/master
Note: checking out 'remotes/jesus/master'.
You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by performing another checkout.
If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -b with the checkout command again.
git checkout -b new_branch_name
HEAD is now at 215d45c... Agregue mi modulo para desarrollo A  new file: moduloA/moduloA.c
parallels@ubuntu:~/RepoRoberto$ git log
commit 215d45cdc5653e4b36f963dd43353c54e1670455
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 15:02:48 2016 -0600

    Agregue mi modulo para desarrollo A
    new file: moduloA/moduloA.c

commit 7b10a086c6363f6e532bd896cf5b0a05aa4fa769
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 14:59:02 2016 -0600

    Desarrollando mi archivo main
commit a7f6f5bb09364455445143ef8fb4977e4f517160
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 14:55:27 2016 -0600

    Commit inicial mio Jesus
    Initial commit
parallels@ubuntu:~/RepoRoberto$ ^C
parallels@ubuntu:~/RepoRoberto$ git checkout master
Previous HEAD position was 215d45c... Agregue mi modulo para desarrollo A  new file: moduloA/moduloA.c
Switched to branch 'master'
parallels@ubuntu:~/RepoRoberto$ git cherry-pick 215d45cdc5653e4b36f963dd43353c54e1670455
[master a684f28] Agregue mi modulo para desarrollo A  new file: moduloA/moduloA.c
Author: Jesus Flores <joy_warmgun@hotmail.com>
```

Con git log visualizamos los cambios hechos en la rama master

```
parallels@ubuntu:~/RepoRoberto
  Desarrollando mi archivo main
commit a7f6f5bb09364455445143ef8fb4977e4f517160
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 14:55:27 2016 -0600

    Commit inicial mio Jesus
    Initial commit
parallels@ubuntu:~/RepoRoberto$ ^C
parallels@ubuntu:~/RepoRoberto$ git checkout master
Previous HEAD position was 215d45c... Agregue mi modulo para desarrollo A      new file:   moduloA/moduloA.c
Switched to branch 'master'
parallels@ubuntu:~/RepoRoberto$ git cherry-pick 215d45cdc5653e4b36f963dd43353c54e1670455
[master a084f28] Agregue mi modulo para desarrollo A  new file:   moduloA/moduloA.c
Author: Jesus Flores <joy_warmgun@hotmail.com>
1 file changed, 9 insertions(+)
create mode 100644 moduloA/moduloA.c
parallels@ubuntu:~/RepoRoberto$ git log
commit a684f28ca4c5d881czib4532b7ff9b19f7788689
Author: Jesus Flores <joy_warmgun@hotmail.com>
Date:   Sat Apr 2 15:02:48 2016 -0600

    Agregue mi modulo para desarrollo A
    new file:   moduloA/moduloA.c
commit 8681b2fc1ee118141fac0e9291e7cd45518e2fe6
Author: Roberto Guerrero <roberto.guerrero@gmail.com>
Date:   Sat Apr 2 15:01:58 2016 -0600

    Agrege el moduloB
commit e27482cc1ad11703871f117aaa366d239ea1e582
Author: Roberto Guerrero <roberto.guerrero@gmail.com>
Date:   Sat Apr 2 14:58:43 2016 -0600

    Agregue archivo main.c
commit 68b945282ce4e6c2030a2e583e192fb66fd2468
Author: Roberto Guerrero <roberto.guerrero@gmail.com>
Date:   Sat Apr 2 14:55:46 2016 -0600

    Agregue el archivo README
    Initial commit
```