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Git Gerrit Training

Pre setup

1. install git
2. generate ssh
3. config global var

```
git config --global user.name "John Doe"
```

```
git config --global user.email johndoe@example.com
```

4. config text editor

```
git config --global core.editor <editor_path>
```

5. config merge tool

Link: Download: <https://sourceforge.net/projects/kdiff3/files/>

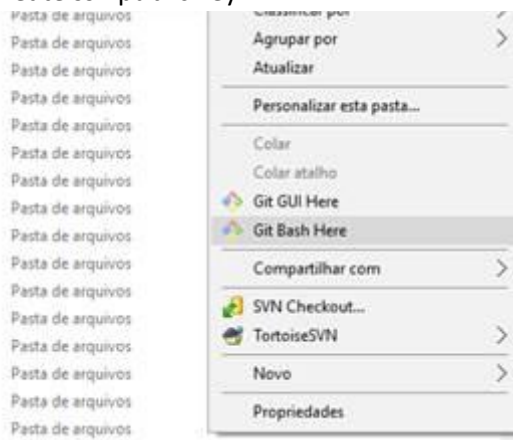
```
git config --global --add merge.tool kdiff3
```

```
git config --global --add mergetool.kdiff3.path "C:/Program Files/KDiff3/kdiff3.exe"
```

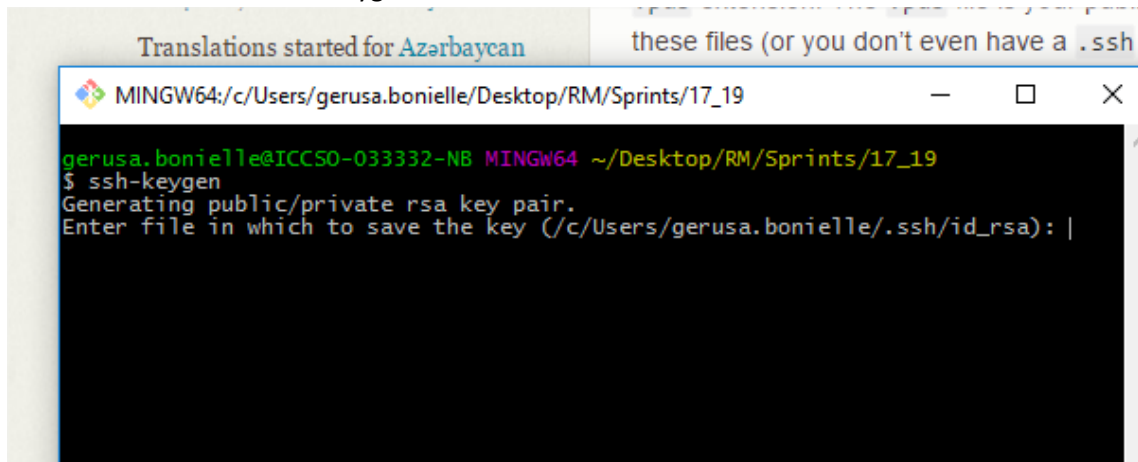
```
git config --global --add mergetool.kdiff3.trustExitCode false
```

Cloning projects

- 1- Chose a folder to cone your project and open the git bash
- 2- Create ssh public key

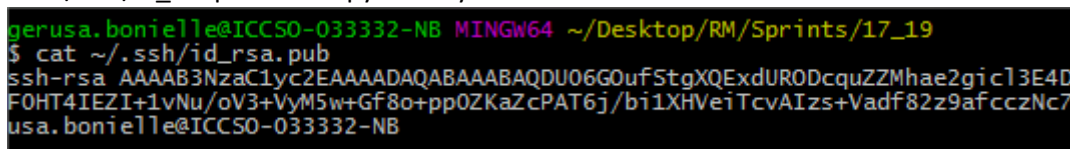


- 3- Execute the command ssh-keygen



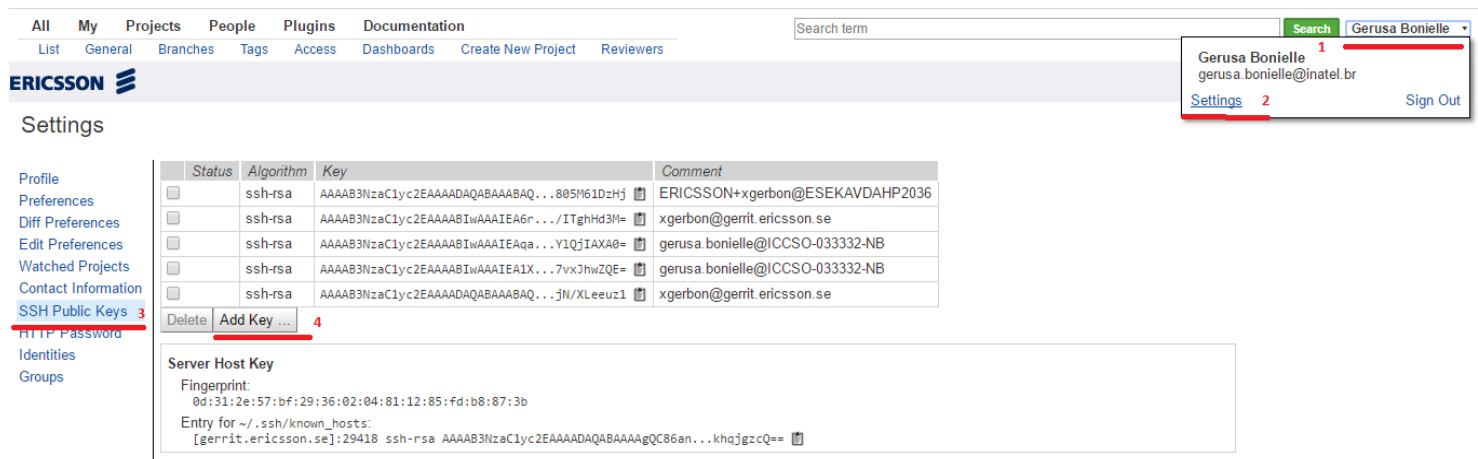
```
gerusa.bonielle@ICCSO-033332-NB MINGW64 ~/Desktop/RM/Sprints/17_19
$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/gerusa.bonielle/.ssh/id_rsa): |
```

- 4- cat ~/.ssh/id_rsa.pub and copy the key



```
gerusa.bonielle@ICCSO-033332-NB MINGW64 ~/Desktop/RM/Sprints/17_19
$ cat ~/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDU06G0uf5tgXQExdUODcquZZMhae2gic13E4DFOHT4IEZI+1vNu/oV3+VyM5w+Gf8o+pp0ZKaZcPAT6j/bi1XHVeITcvAIzs+Vadf82z9afcczNc7usa.bonielle@ICCSO-033332-NB
```

- 5- Add the ssh key on Gerrit as described below:



Settings

Status	Algorithm	Key	Comment
<input type="checkbox"/>	ssh-rsa	AAAAAB3NzaC1yc2EAAAADAQABAAQDU06G0uf5tgXQExdUODcquZZMhae2gic13E4DFOHT4IEZI+1vNu/oV3+VyM5w+Gf8o+pp0ZKaZcPAT6j/bi1XHVeITcvAIzs+Vadf82z9afcczNc7usa.bonielle@ICCSO-033332-NB	ERICSSON+xgerbon@ESEKAVIDAHP2036
<input type="checkbox"/>	ssh-rsa	AAAAAB3NzaC1yc2EAAAADAQABAAQDU06G0uf5tgXQExdUODcquZZMhae2gic13E4DFOHT4IEZI+1vNu/oV3+VyM5w+Gf8o+pp0ZKaZcPAT6j/bi1XHVeITcvAIzs+Vadf82z9afcczNc7usa.bonielle@ICCSO-033332-NB	xgerbon@gerrit.ericsson.se
<input type="checkbox"/>	ssh-rsa	AAAAAB3NzaC1yc2EAAAADAQABAAQDU06G0uf5tgXQExdUODcquZZMhae2gic13E4DFOHT4IEZI+1vNu/oV3+VyM5w+Gf8o+pp0ZKaZcPAT6j/bi1XHVeITcvAIzs+Vadf82z9afcczNc7usa.bonielle@ICCSO-033332-NB	gerusa.bonielle@ICCSO-033332-NB
<input type="checkbox"/>	ssh-rsa	AAAAAB3NzaC1yc2EAAAADAQABAAQDU06G0uf5tgXQExdUODcquZZMhae2gic13E4DFOHT4IEZI+1vNu/oV3+VyM5w+Gf8o+pp0ZKaZcPAT6j/bi1XHVeITcvAIzs+Vadf82z9afcczNc7usa.bonielle@ICCSO-033332-NB	gerusa.bonielle@ICCSO-033332-NB
<input type="checkbox"/>	ssh-rsa	AAAAAB3NzaC1yc2EAAAADAQABAAQDU06G0uf5tgXQExdUODcquZZMhae2gic13E4DFOHT4IEZI+1vNu/oV3+VyM5w+Gf8o+pp0ZKaZcPAT6j/bi1XHVeITcvAIzs+Vadf82z9afcczNc7usa.bonielle@ICCSO-033332-NB	xgerbon@gerrit.ericsson.se

Server Host Key

Fingerprint:
0d:31:2e:57:bf:29:36:02:04:81:12:85:fd:b8:87:3b

Entry for ~/.ssh/known_hosts:
[gerrit.ericsson.se]:29418 ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDU06G0uf5tgXQExdUODcquZZMhae2gic13E4DFOHT4IEZI+1vNu/oV3+VyM5w+Gf8o+pp0ZKaZcPAT6j/bi1XHVeITcvAIzs+Vadf82z9afcczNc7usa.bonielle@ICCSO-033332-NB

Click on your name -> settings -> SSH public keys -> Add key

- 6- Search for project that you want clone.

← → Seguro | <https://gerrit.ericsson.se/#/admin/projects/?filter=playground1>

All My **Projects** People Plugins Documentation

List Create New Project

ERICSSON

Projects

Filter

Project Name	Project Description	Repository Browser
playground1	Migration of playground1 from Tuleap	(gitweb)(gitiles)
playground1/cbio_tools	Migration of playground1/cbio_tools from Tuleap	(gitweb)(gitiles)
playground1/cms_saas_openstack	Migration of playground1/cms_saas_openstack from Tuleap	(gitweb)(gitiles)
playground1/hack_athon	Migration of playground1/hack_athon from Tuleap	(gitweb)(gitiles)
playground1/playground	Migration of playground1/playground from Tuleap	(gitweb)(gitiles)

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Gerrit Central LXA 119 1598 R11G02 Powered by Gerrit Code Review (2.12.5-80-g457756d) | Report Bug | Press 'F' to view keyboard shortcuts

Chose the project and chose the link “Clone with commit-msg hooks” and copy on git bash

ERICSSON

Project playground1/playground

Clone Clone with commit-msg hook http ssh

git clone ssh://xgerbon@gerrit.ericsson.se:29418/playground1/playground

Description

Migration of playground1/playground from Tuleap

Project Options

State: Active

Submit Type: Merge if Necessary

Allow content merges: INHERIT (false)

The project will be cloned as status shown below:

```
gerusa.bonielle@ICCSO-033332-NB MINGW64 ~/Desktop/RM/Sprints/17_19
$ cat ~/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDU06G0ufStgXQExdUR0DcquZZMhae2gic13E4DxBhduYSIV0hmKOY
FOHT4IEZI+1vNu/oV3+VyM5w+Gf8o+pp0ZKaZcPAT6j/bi1XHVe1TcvAIzs+Vadf82z9afcczNc7XnIL0nr4nPsUDfx
usa.bonielle@ICCSO-033332-NB

gerusa.bonielle@ICCSO-033332-NB MINGW64 ~/Desktop/RM/Sprints/17_19
$ git clone ssh://xgerbon@gerrit.ericsson.se:29418/playground1/playground && scp -p -P 2941
Cloning into 'playground'...
remote: Counting objects: 629, done
remote: Finding sources: 100% (629/629)
remote: Getting sizes: 100% (473/473)
Receiving objects: 38% (243/629), 835.75 KiB | 101.00 KiB/s
```

Link reference: <https://git-scm.com/book/be/v2/Git-on-the-Server-Generating-Your-SSH-Public-Key>

Exploring git

Show branches

[local] git branch -a

[remote] git branch -r

File status, commits status

git status (untracked, not staged, staged)

git log (hash commit number)

Code checkout

git checkout

git checkout -b <branch_name>

Modifying/Creating files

1. git status (check status file)
2. git add (add to staged status)
3. gitk/git diff (verify changes on files)
4. git commit (create CHANGE with files staged)
5. git push: mode draft x for

[PERMANENTLY] git push origin HEAD:refs/for/<branch_name>

[DRAFT] git push origin HEAD:refs/drafts/<branch_name>

Patchset x Change

1. git checkout
2. git commit --amend
3. git push

Git rebase

[?] Identify if change needs rebase on gerrit

Option 1: rebase by gerrit

Option 2:

- a) Using cherry-pick
 1. checkout on parent branch
 2. git cherry-pick
 3. Merge Conflict? Use: "git mergetool -t kdiff3" (using kdiff3)
 4. git clean -f (remove .orig files)
 5. git push
- b) Using --rebase
 1. git checkout on change
 2. git pull --rebase origin <branch_name>

Git merge

- a) Merge from develop to feature
 - 1. Checkout on feature branch and git pull
 - 2. git merge develop --no-ff --no-commit

- b) Merge de feature branch para develop:
 - 1. git checkout <feature-branch>
 - 2. git pull
 - 3. git checkout develop
 - 4. git pull
 - 5. git merge <feature-branch> --squash --no-commit
 - 6. git commit -m "message" --squash

Undo commits

Using git (commits and files)

- a) git reset --soft <commit_hash>
- b) git reset --mixed <commit_hash>
- c) git reset --hard <commit_hash>
- d) git revert <commit_hash>

Who changed the file?

git blame -n <file_name>

Creating alias

git config --global alias.hist "log --pretty=format:'%h %ad | %s%d [%an]' --graph --date=short"

- ex.: git hist -10

Git stash

For example: if you want change to change branches and have changes in your env. but you don't want commit these changes, you can stash them using: **git stash** and **git stash apply**

Link reference apply: <https://git-scm.com/docs/git-stash>

Links

<http://willianjusten.teachable.com/p/git-e-github-para-iniciantes>

<https://git-scm.com/doc>