



## 01 GENERATE A SSH KEY

**-t** is the algorithm, ED25519 is recommended for security and performance  
**-C** is for adding your associated email as a comment  
**-f** is to define a filename, helping you remember which key is used for which user/remote.

```
ssh-keygen \  
-t ed25519 \  
-C "your_personal_email@example.com" \  
-f ~/.ssh/<personal_key>
```

## 02 ADD A PASSPHRASE

Add an extra layer of security: if someone gains access to your computer, your keys will be compromised unless they are attached to a passphrase.

```
ssh-keygen -p -f ~/.ssh/<personal_key>
```

To update the passphrase for your SSH key at any time

## 03 ADD YOUR KEY TO SSH-AGENT

Make sure the ssh-agent is running, and add your key (the **-K** option is to store the passphrase in your keychain, macOS only).

```
eval "$(ssh-agent -s)" && \  
ssh-add -K ~/.ssh/<personal_key>
```

## 04 CREATE A SSH CONFIG

Host is set to **\*** for every key because we will use Git **configs** to select the appropriate SSH key based on profiles, which will give us a bit more flexibility.

```
# ~/.ssh/config  
  
Host *  
  AddKeysToAgent yes  
  UseKeychain yes  
  IdentityFile ~/.ssh/<created_key>
```

## 05 COPY IT TO YOUR VCS

Copy your key to your clipboard and then paste it in [GitHub](#), [GitLab](#) or [BitBucket](#)

macOS `tr -d '\n' < ~/.ssh/<created_key>.pub | pbcopy`

Linux `xclip -sel clip < ~/.ssh/<created_key>.pub`

Windows `cat ~/.ssh/<created_key>.pub | clip`

## 06 SET UP YOUR WORKSPACE

Create specific `.gitconfigs` for each account/directory.

```
/myhome/  
|__ .gitconfig  
|__ work/  
|__ .gitconfig.work  
|__ personal/  
|__ .gitconfig.pers
```

## 07 SET UP YOUR GIT CONFIGS

Tell Git which key to use with the SSH command (**-i** option to specify an identity file/key).

```
# ~/.personal/.gitconfig.pers  
[user]  
email = your_pers_email@example.com  
name = Your Name  
[github]  
user = "mynickname"  
[core]  
sshCommand = "ssh -i ~/.ssh/<personal_key>"  
  
# ~/.work/.gitconfig.work  
[user]  
email = your_pro_email@google.com  
name = Your Name  
[github]  
user = "pro_name"  
[core]  
sshCommand = "ssh -i ~/.ssh/<professional_key>"  
  
# ~/.gitconfig  
[includeIf "gitdir:~/personal/"] # include for all .git projects under personal/  
path = ~/.personal/.gitconfig-pers  
[includeIf "gitdir:~/work/"]  
path = ~/.work/.gitconfig-work  
[core]  
excludesfile = ~/.gitignore # valid everywhere
```

To see a list of **all config the options**

```
man git-config
```

To check your **activated config options**

```
git config -list
```

## 08 REPEAT FROM 1 FOR EVERY REQUIRED ACCOUNT

### ✔ YOU ARE DONE! YOU CAN NOW CHOOSE TO

clone your repo `git clone git@<repository.domain.com>:<username>/<repo_name>.git`

add your remote `git remote add origin git@<repository.domain.com>:<username>/<repo_name>.git`

or change it `git remote set-url origin git@<repository.domain.com>:<username>/<repo_name>.git`