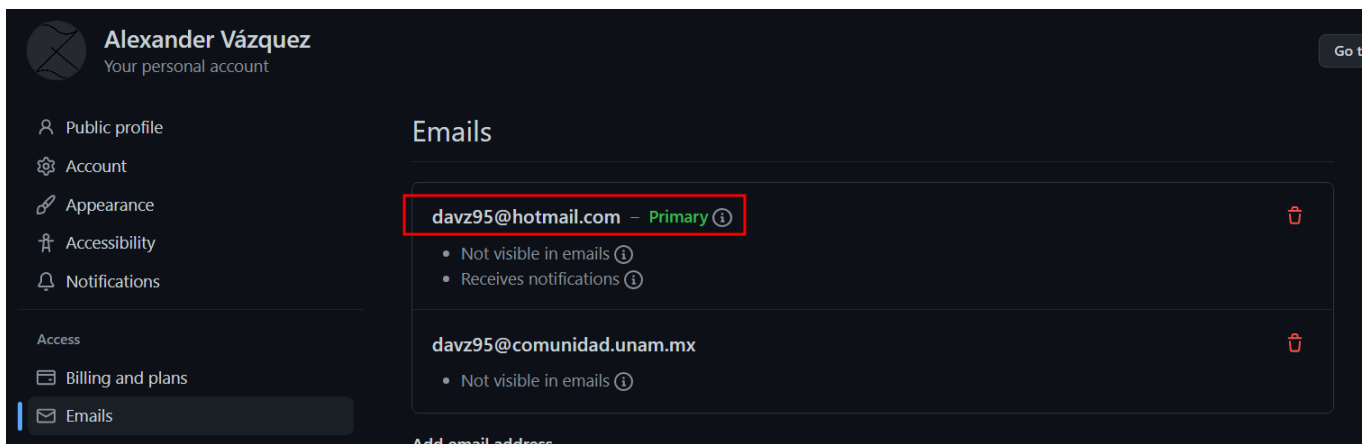
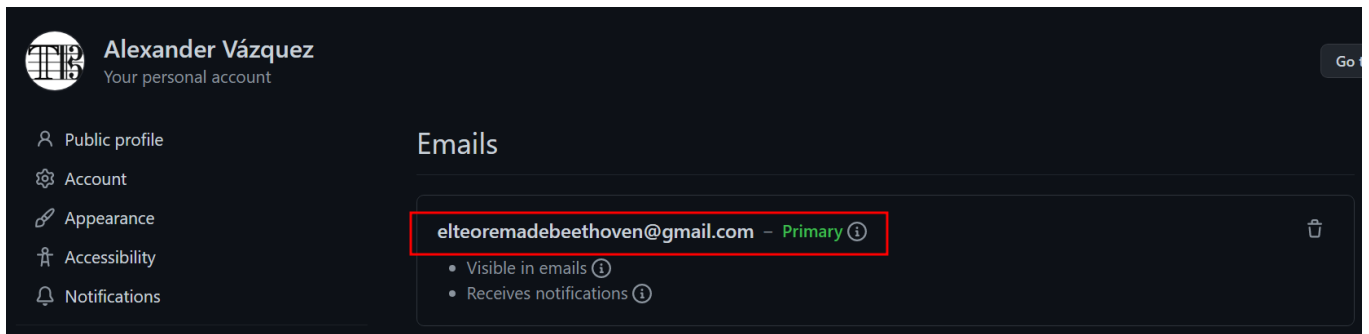


# GitHub ssh generator (Windows/Linux)

All commands shown must be executed in **PowerShell** or **Git Bash**.

## Config your Git settings

```
$ git config --global user.name "Name"
$ git config --global user.email "GitHub email here"
```



```
PS C:\Users\Alexander Vazquez> git config --global user.name "zavden"
PS C:\Users\Alexander Vazquez> git config --global user.email "davz95@hotmail.com"
```

## Create ssh folder

```
$ mkdir ~/.ssh
# or
$ mkdir $HOME/.ssh
```

## Create ssh keygen

There are two algorithms to generate ssh keys, `rsa` (old) and `ed25519` (modern), GitHub supports both, but there are some pages that only support `rsa`.kg

```
# First, move to the home directory (using PowerShell or git-bash)
$ cd ~
# Create ssh keygen
$ ssh-keygen -t rsa -b 4096 -C "your_email@example.com" -f $HOME/.ssh/id_github_nickname
# or
$ ssh-keygen -t ed25519 -C "your_email@example.com" -f $HOME/.ssh/id_github_nickname
```

It will ask you where you want to save it, it is recommended to use the default address, save it and continue.

```
> Enter a file in which to save the key (/Users/YOU/.ssh/id_ALGORITHM: [Press enter]
```

Next you will be asked for a passphrase (password with spaces), if you want to add one or leave it blank.

```
> Enter passphrase (empty for no passphrase): [Type a passphrase]
> Enter same passphrase again: [Type passphrase again]
```

```
PS C:\Users\Alexander Vazquez> ssh-keygen -t rsa -b 4096 -C "davz95@hotmail.com" -f $HOME/.ssh/id_zavden
Generating public/private rsa key pair.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\Alexander Vazquez/.ssh/id_zavden.
Your public key has been saved in C:\Users\Alexander Vazquez/.ssh/id_zavden.pub.
The key fingerprint is:
SHA256:PWY5k7KjRLiL0oHrw6jsKvImcOf6yvQFaSbnUGf/1eY davz95@hotmail.com
The key's randomart image is:
+---[RSA 4096]---+
|      .      .      |
|     o .    o      |
|    o .    o      |
|   . +   OE       |
|  . o o . S       |
| o X . o =        |
|=o= + + +         |
|OB.B o . . .      |
|&OB+=             |
+-----[SHA256]-----+
PS C:\Users\Alexander Vazquez>
```

Check that `ssh-agent` is running:

**This command has to be done in Git Bash**, by default PowerShell does not have `eval` command enabled.

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

This will return something like this:

```
Agent pid 4723
```

And add kay to the system

```
$ ssh-add ~/.ssh/id_github_nickname
```

Enter the passphrase.

```
Alexander Vazquez@DESKTOP-S84EBIH MINGW64 ~
$ eval $(ssh-agent -s)
Agent pid 401

Alexander Vazquez@DESKTOP-S84EBIH MINGW64 ~
$ ssh-add ~/.ssh/id_zavden
Enter passphrase for /c/Users/Alexander Vazquez/.ssh/id_zavden:
Identity added: /c/Users/Alexander Vazquez/.ssh/id_zavden (davz95@hotmail.com)

Alexander Vazquez@DESKTOP-S84EBIH MINGW64 ~
$ |
```

## Add `id_github_nickname.pub` to GitHub

```
Alexander Vazquez@DESKTOP-S84EBIH MINGW64 ~
$ cat ~/.ssh/id_zavden
id_zavden      id_zavden.pub

Alexander Vazquez@DESKTOP-S84EBIH MINGW64 ~
$ cat ~/.ssh/id_zavden.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQAC4B69DyDXIAv2+CRFmoHLV3/IsTQc+166h6xMKh0e9+j5fbSagv
fIgirh59xQ49TpqFy00K0Njh/WhAG9Nxs5D/sk5/LSjCBQPMVVv0G7IqmKD9+KMaBbSspmK+qd5tYYm7oj4ZPv6Kk
PsM6odIoTWwh9zDDnYtEJuUG1msMAAxvU7syU1qierBWISkuZ89u1qTZ5kwrH83oJYxCJdnwjaKUdbAl3iE0y4Q7D
VvLefPLN+rFRdyJIQ4XyfwjRrJatsynZJvDq/1gRWPlWYe/+P5G35WPw4wRd4YUNCwbJ45k4YKMHkqRaDhcDOhxn1
MzPYApRtWnIB76SrNjDE/4in10CP2S9TZwBIIPAd2Cvz21obVb0JgJSGa54BgRmS8EYvKRGxsYb1HBxaXwc19L0fR
0r+ndIBLKQcxu7agh5E50xC1XAWQFuxPf264lrWiKajdeno8cRdIBX6CG//s4pvvBpefYNT9xnHMKmtsJ0tuWb9ZD
UbOth814CBJgzveXD8MM2fBiONW6Lv5Ej2hM1e8XQDt+VtgdP5HG4FK9coMlpq3U0J8efKhjfnCayk7CVzzHKYtRZ
3G7j6CwI6QntgSsf+dcSVQFaEjB/Wee6iSL691bZJn4Kpq+/z0ExV924f50fyviJcThJxw7JXbYNNvcxs/ASLdOPo
yoLRe5GA4Q== davz95@hotmail.com

Alexander Vazquez@DESKTOP-S84EBIH MINGW64 ~
$ |
```

**Alexander Vázquez**  
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- Public profile
- Account
- Appearance
- Accessibility
- Notifications
- Access
- Billing and plans
- Emails
- Password and authentication
- SSH and GPG keys**
- Organizations
- Moderation

Code, planning, and automation

### SSH keys / Add new

**Title**  
windows-tmp

**Key type**  
Authentication Key

**Key**  
ssh-rsa  
AAAAB3NzaC1yc2EAAAADAQABAAQAC4B69DyDXIAv2+CRFmoHLV3/IsTQc+166h6xMKh0e9+j5fbSagvfIgirh59xQ49TpqFy00K0Njh/WhAG9Nxs5D/sk5/LSjCBQPMVVv0G7IqmKD9+KMaBbSspmK+qd5tYYm7oj4ZPv6KkPsM6odIoTWwh9zDDnYtEJuUG1msMAAxvU7syU1qierBWISkuZ89u1qTZ5kwrH83oJYxCJdnwjaKUdbAl3iE0y4Q7DVvLefPLN+rFRdyJIQ4XyfwjRrJatsynZJvDq/1gRWPlWYe/+P5G35WPw4wRd4YUNCwbJ45k4YKMHkqRaDhcDOhxn1MzPYApRtWnIB76SrNjDE/4in10CP2S9TZwBIIPAd2Cvz21obVb0JgJSGa54BgRmS8EYvKRGxsYb1HBxaXwc19L0fR0r+ndIBLKQcxu7agh5E50xC1XAWQFuxPf264lrWiKajdeno8cRdIBX6CG//s4pvvBpefYNT9xnHMKmtsJ0tuWb9ZDUbOth814CBJgzveXD8MM2fBiONW6Lv5Ej2hM1e8XQDt+VtgdP5HG4FK9coMlpq3U0J8efKhjfnCayk7CVzzHKYtRZ3G7j6CwI6QntgSsf+dcSVQFaEjB/Wee6iSL691bZJn4Kpq+/z0ExV924f50fyviJcThJxw7JXbYNNvcxs/ASLdOPoyoLRe5GA4Q== davz95@hotmail.com

## Set `GIT_SSH_COMMAND` enviroment variable

This can be done in PowerShell

```
$env:GIT_SSH_COMMAND="ssh -i ~/.ssh/id_github_nickname"
```

Check the enviroment variables

```
dir env:
```

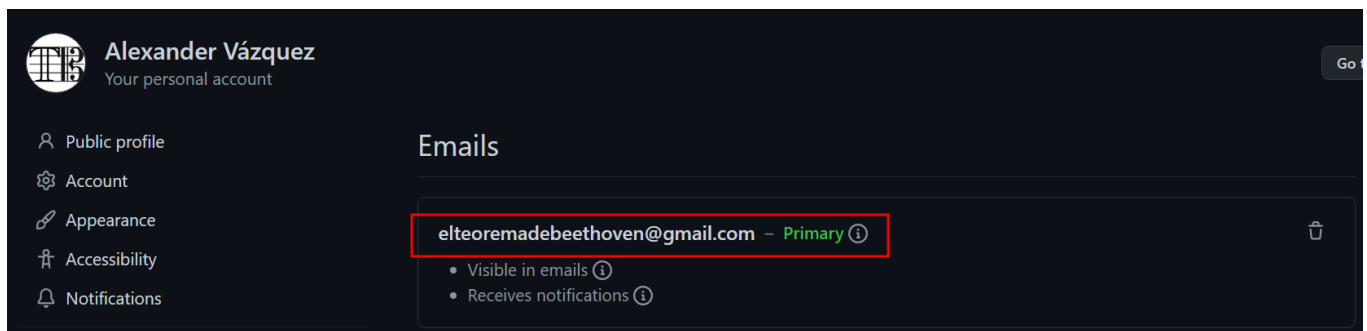
```
PS C:\Users\Alexander Vazquez\Downloads> $env:GIT_SSH_COMMAND="ssh -i ~/.ssh/id_zavden"
PS C:\Users\Alexander Vazquez\Downloads> dir env:
```

Name	Value
ALLUSERSPROFILE	C:\ProgramData
APPDATA	C:\Users\Alexander Vazquez\AppData\Roaming
CommonProgramFiles	C:\Program Files\Common Files
CommonProgramFiles(x86)	C:\Program Files (x86)\Common Files
CommonProgramW6432	C:\Program Files\Common Files
COMPUTERNAME	DESKTOP-S84EBIH
ComSpec	C:\Windows\system32\cmd.exe
DriverData	C:\Windows\System32\Drivers\DriverData
GIT_SSH_COMMAND	ssh -i ~/.ssh/id_zavden
HOMEDRIVE	C:
HOMEPATH	\Users\Alexander Vazquez
LOCALAPPDATA	C:\Users\Alexander Vazquez\AppData\Local
LOGONSERVER	\\DESKTOP-S84EBIH
NUMBER_OF_PROCESSORS	2
OneDrive	C:\Users\Alexander Vazquez\OneDrive

## Clone some repo using ssh

## Second account

To add another account you basically have to do the same process, but obviously you don't have to create the .ssh folder because it already exists.



```
Alexander Vazquez@DESKTOP-S84EBIH MINGW64 ~
$ git config -l
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager-core
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.name=zavden
user.email=davz95@hotmail.com

Alexander Vazquez@DESKTOP-S84EBIH MINGW64 ~
$ git config --global user.email "elteoremadebeethoven@gmail.com"

Alexander Vazquez@DESKTOP-S84EBIH MINGW64 ~
$ |
```

```
Alexander Vazquez@DESKTOP-S84EBIH MINGW64 ~
$ ssh-keygen -t rsa -b 4096 -C "elteoremadebeethoven@gmail.com" -f ~/.ssh/id_tb
Generating public/private rsa key pair.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/Alexander Vazquez/.ssh/id_tb
Your public key has been saved in /c/Users/Alexander Vazquez/.ssh/id_tb.pub
The key fingerprint is:
SHA256:YKfwpAssFxJVS46I7igEXS5h/398fJ9Y5qkXFqfKlRo elteoremadebeethoven@gmail.com
The key's randomart image is:
+---[RSA 4096]-----+
|.+=.+|
|o+oX .|
|+o+.B + .|
|+ .o B + ..|
|+ . . + S oo|
|+ . . .E +o|
|o. . .o.o=oo.|
|. . .+. =oo|
|. . .oo+.|
+---[SHA256]-----+
```

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**SSH and GPG keys**  
Organizations

### SSH keys / Add new

Title  
Windows-tmp

Key type  
Authentication Key

Key  
ssh-rsa  
AAAAB3NzaC1yc2EAAAADAQABAAQADNi3ALJFKmwn83BDeQhi4aQSNbmEuRByWX8+RfvVdICYnVeBkdFEmAtth840MwlFllujG9PC+Ri4tS+TA39XWf9bYXyXM4x2kJuXeBDr1MF8VP33I2lb0U8TpjE+FYj4lrKJqRqLyvGrI8Hz0UGRW/gfrlgVxOMvZnZ7cC3NRmukxAD8f0jvTACe9jf5kdjJFgCp+7ehOX6wzCJ0imvBhTuTqYB+kiugzjognKVZeuYEwoQX9YG3XHsZyGxfUFUDeswKoq16qFY2XXwV5a1NNDHlhnNtGTrwve8RdpnE+eIDdLRT9krAC4EDhI4nHjTRWFEE3laf8uJARyTijY66iz52F2cr7wFCCwl0dxsA62S8cTshnp6l6Ntjg3XncVgneSWBJvOrtqlH08e2zWXoz5f28Smoi7oxvHHU2fHLwc38oaYVgOXC0A2rcZnAR5

```
PS C:\Users\Alexander Vazquez\Downloads> $env:GIT_SSH_COMMAND="ssh -i ~/.ssh/id_tb"
```

And then clone some repo with ssh.