

## What is an SSH Key?

SSH Key is a secure way to connect to servers and platforms like GitHub without using a password every time.

## Why use SSH Key?

More secure than passwords

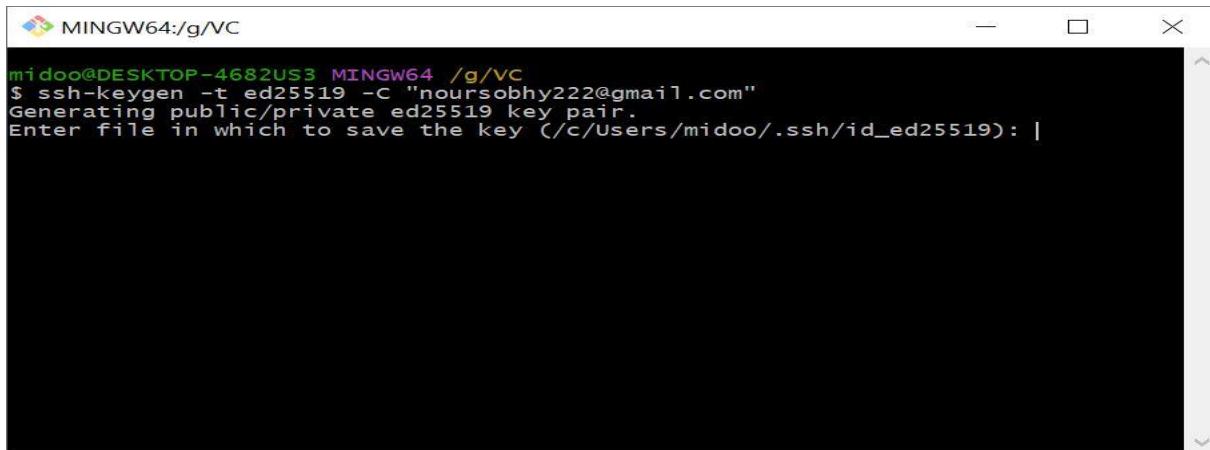
No need to enter your password every time you push or pull

Required for contributing to private repositories

## How I created my SSH Key:

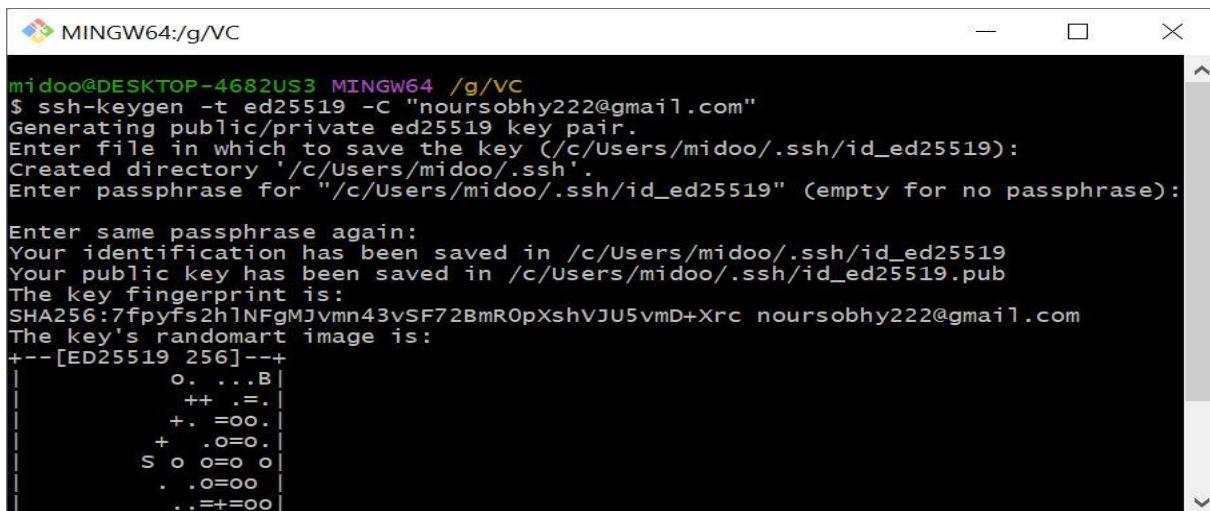
1-Opened Git Bash

2-Ran the command: ssh-keygen -t ed25519 -C [noursobhy222@gmail.com](mailto:noursobhy222@gmail.com)



```
midoo@DESKTOP-4682US3 MINGW64 /g/VC
$ ssh-keygen -t ed25519 -C "noursobhy222@gmail.com"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/c/Users/midoo/.ssh/id_ed25519): |
```

3-Saved the key in the default location



```
midoo@DESKTOP-4682US3 MINGW64 /g/VC
$ ssh-keygen -t ed25519 -C "noursobhy222@gmail.com"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/c/Users/midoo/.ssh/id_ed25519):
Created directory '/c/Users/midoo/.ssh'.
Enter passphrase for "/c/Users/midoo/.ssh/id_ed25519" (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/midoo/.ssh/id_ed25519
Your public key has been saved in /c/Users/midoo/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:7fpys2h1NFgMJvmn43vSF72BmR0pXshVJU5vmD+Xrc noursobhy222@gmail.com
The key's randomart image is:
++-[ED25519 256]--+
|   o. ...B|
|   ++ .=.|
|   +. =oo.|
|   + .o=o.|
|   S o o=o o|
|   . .o=oo |
|   ..+=oo |
```

4-Copied the public key using Notepad from C:\Users\username\.ssh\id\_ed25519.pub

5-Went to GitHub → Settings → SSH and GPG keys → New SSH key → pasted the key

The screenshot shows the 'SSH keys' section of a GitHub account settings page. At the top right is a green 'New SSH key' button. Below it, a message reads: 'This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.' Under the heading 'Authentication keys', there is one entry: 'My Laptop'. The key itself is partially visible below the heading.

5-Cloned the repo using SSH link

The screenshot shows a terminal window titled 'MINGW64:g/VC'. It displays the command: '\$ git clone git@github.com:ayaatade1/Dot\_Net\_2026\_r2.git'. The output shows the repository being cloned into a directory named 'Dot\_Net\_2026\_r2'. A warning message at the end states: 'The authenticity of host 'github.com (140.82.121.3)' can't be established.'