

# Setting up an SSH token for a Github Account

The following guide is a concatenation of three different tutorials published by github. The original tutorials are linked at the bottom of the document for reference.

1. Open a terminal window
2. Paste the following into terminal and replace the email with the email connected to your github account

```
ssh-keygen -t ed25519 -C "your_email@example.com"
```

You should see an output that looks something like this:

```
> Generating public/private ed25519 key pair.
```

3. You will be prompted to enter a file location for saving the ssh key. Press `ENTER` which tells to computer to save the key in the default file location

```
> Enter a file in which to save the key  
(/Users/you/.ssh/id_ed25519): [Press enter]
```

4. You will be prompted to enter a passphrase for the ssh key. Press `ENTER` which instructs the computer not to require a password when using the ssh key

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

```
> Enter same passphrase again: [Type passphrase again]
```

5. Run the following command:

Mac Computer:

```
open ~/.ssh/config
```

Window computer:

```
notepad ~/.ssh/config
```

If you receive a message stating that the file does not exist, run the following command:

```
touch ~/.ssh/config
```

Then run the command to open the file:

**Mac Computer:**

```
open ~/.ssh/config
```

**Window computer:**

```
notepad ~/.ssh/config
```

7. If the file is empty paste the following into the file and save the changes. If the file already contains content, make sure the settings align the text below:

```
Host *
```

```
IgnoreUnkown Usekeychain
```

```
AddKeysToAgent yes
```

```
UseKeychain yes
```

```
IdentityFile ~/.ssh/id_ed25519
```

8. Save the file with **command-s** (for macs), and run the following in terminal:

```
ssh-add -K ~/.ssh/id_ed25519
```

9. Run the following in terminal

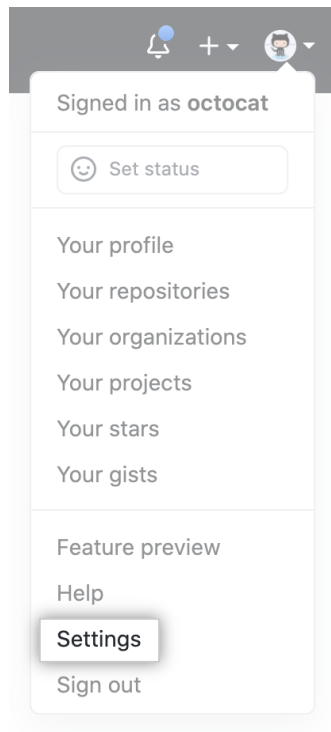
Mac computers:

```
pbcopy < ~/.ssh/id_ed25519.pub
```

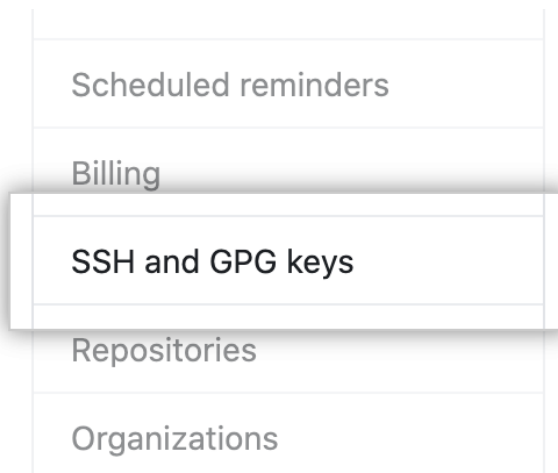
Windows computers:

```
clip < ~/.ssh/id_ed25519.pub
```

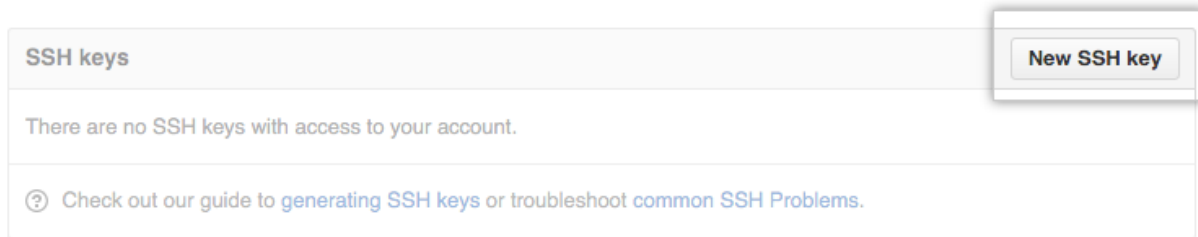
10. Navigate to the [settings](#) page on github.



11. Select **SSH and GPG keys** from the left side bar.



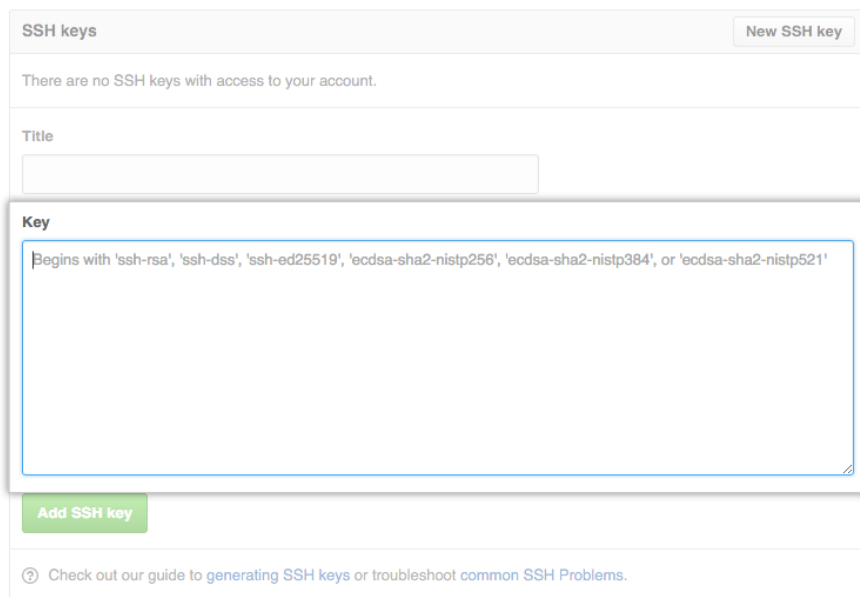
12. Click **New SSH key** or **Add SSH key**.



The screenshot shows the 'SSH keys' management interface. At the top, there's a header 'SSH keys' and a button 'New SSH key'. Below the header, a message states 'There are no SSH keys with access to your account.' At the bottom, there's a link with a question mark icon: 'Check out our guide to [generating SSH keys](#) or troubleshoot [common SSH Problems](#).'

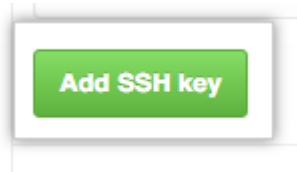
13. In the "Title" field, add a descriptive label for the new key. For example, if you're using a personal Mac, you might call this key "Personal MacBook Air".

14. Step 9 stored the ssh key on your clipboard. Click into the **Key** text box and paste the key into the text box.

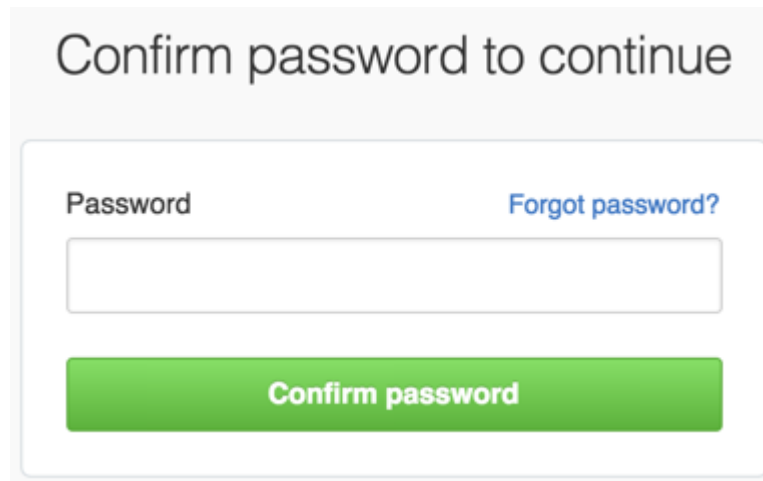


This screenshot shows the 'SSH keys' management page with the 'Key' text box highlighted. The page has a header 'SSH keys' and a button 'New SSH key'. Below the header, a message states 'There are no SSH keys with access to your account.' Below this, there's a 'Title' field. The 'Key' text box is highlighted, and it contains a placeholder text: 'Begins with 'ssh-rsa', 'ssh-dss', 'ssh-ed25519', 'ecdsa-sha2-nistp256', 'ecdsa-sha2-nistp384', or 'ecdsa-sha2-nistp521''. Below the 'Key' text box, there's a green button 'Add SSH key'. At the bottom, there's a link with a question mark icon: 'Check out our guide to [generating SSH keys](#) or troubleshoot [common SSH Problems](#).'

15. Click **Add SSH key**.



16. If prompted, confirm your GitHub password.

A light gray rectangular box containing a form. At the top, the text "Confirm password to continue" is displayed in a large, dark gray font. Below this, the word "Password" is on the left and "Forgot password?" is on the right in a smaller, blue font. Under "Password" is a white text input field with a thin gray border. At the bottom of the form is a large green button with the text "Confirm password" in white.

17. Enter the following in a terminal window

```
ssh -T git@github.com
```

a. If you see the following message:

```
> The authenticity of host 'github.com (IP ADDRESS)' can't be  
established.
```

```
> RSA key fingerprint is  
SHA256:nThbg6kXUpJWGl7E1IGOCspRomTxdCARLviKw6E5SY8.
```

```
> Are you sure you want to continue connecting (yes/no)?
```

Enter **yes**

18. If you see the following message, you have successfully connect to github using an ssh key

```
> Hi username! You've successfully authenticated, but GitHub does not
```

```
> provide shell access.
```

19. Last step is to set ssh as the global authentication protocol by running the following line:

```
git config --global url.ssh://git@github.com/.insteadOf  
https://github.com/
```

Github tutorials:

1. [Generating a new SSH key and adding it to the ssh-agent](#)
2. [Adding a new SSH key to your GitHub account](#)
3. [Testing your SSH connection](#)