

# Tutorial Slurm

#1 SSH Access

Example with Genouest

# Slurm - SSH Access on Windows

- First, you need an account on GenOuest:

<https://my.genouest.org/>

- Then, download Putty (with key generator and pageant):

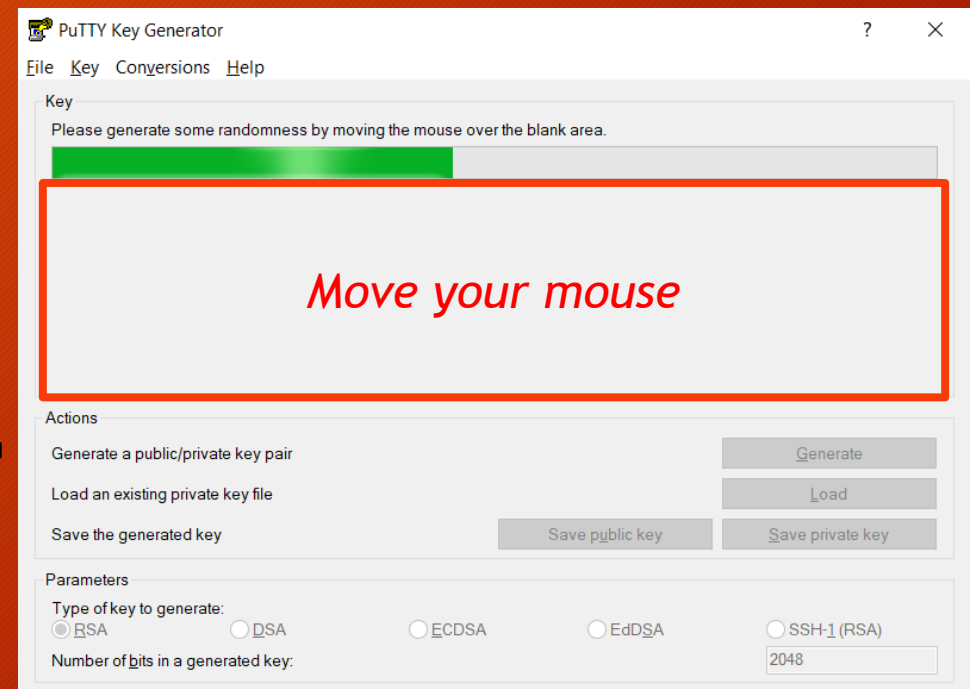
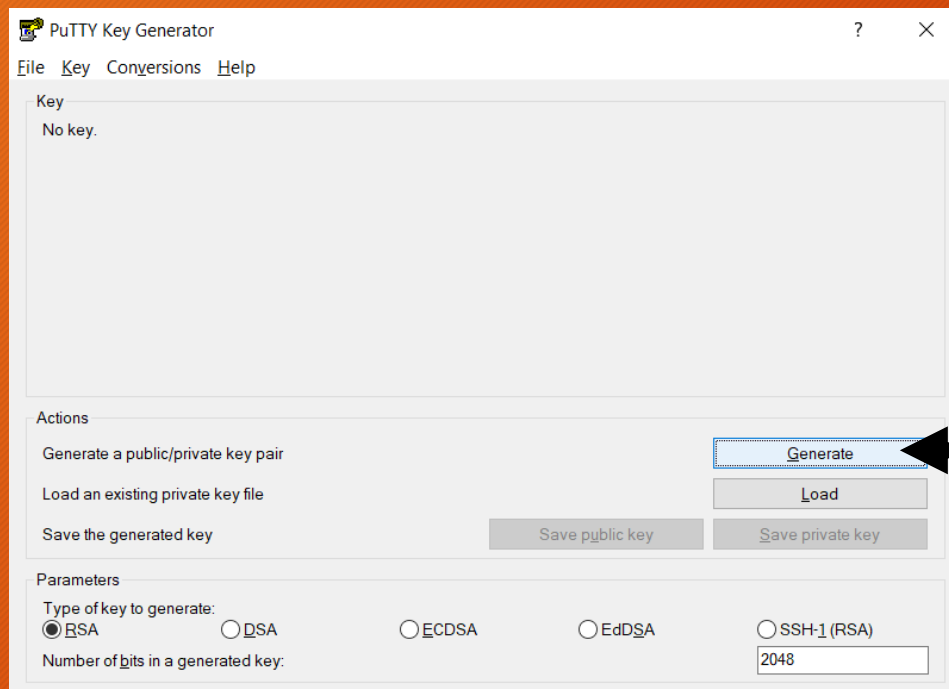
<https://www.chiark.greenend.org.uk/~sgtatham/putty/->

- The goal of this part is to get a public key which looks like this:

*ssh-rsa xxxxx key\_name*

# Slurm - SSH Access on Windows

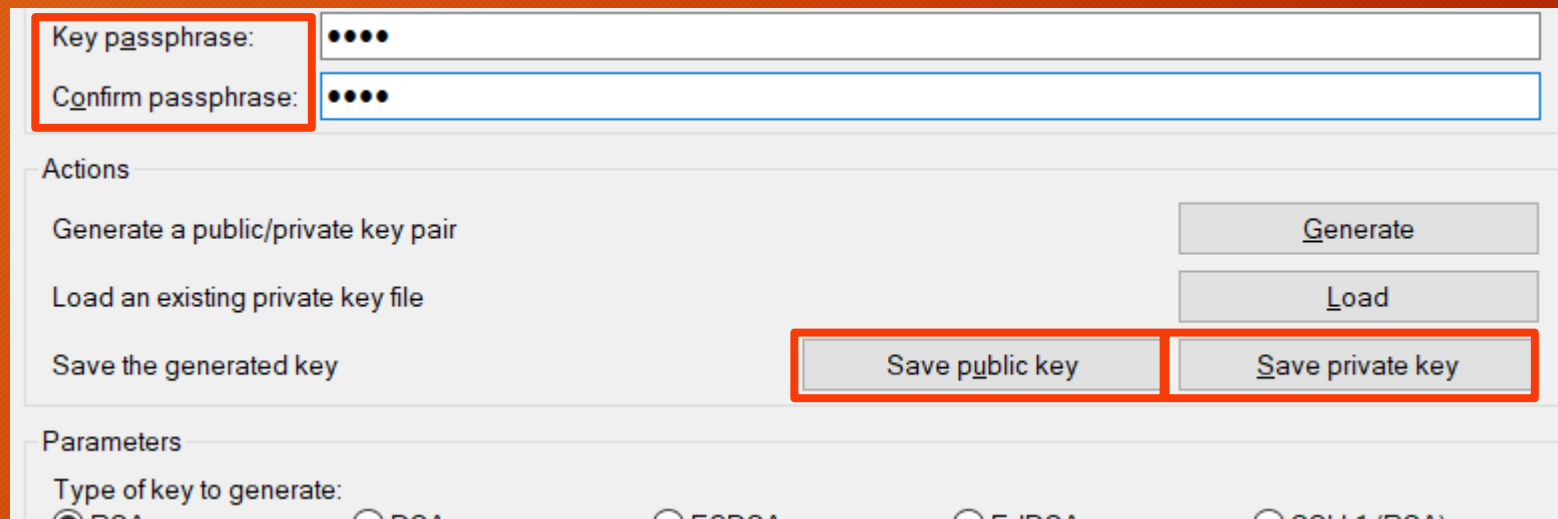
- Launch PuTTYgen and click on Generate
- Then move your mouse several times in the rectangle to generate a random key





# Slurm - SSH Access on Windows

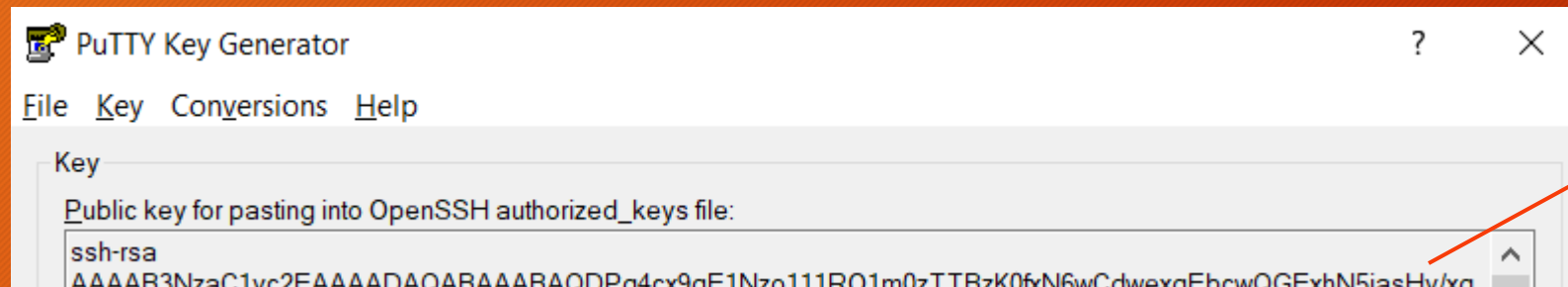
- First, fill in the fields "Key passphrase" and "Confirm passphrase" with your own password
- Then save your keys by clicking on "Save public key" and "Save private key" and download them anywhere you can find them later



The screenshot shows a web-based interface for generating SSH keys. At the top, there are two text input fields: "Key passphrase:" and "Confirm passphrase:", both containing four dots. These fields are enclosed in a red rectangular box. Below them is a section titled "Actions" containing three buttons: "Generate", "Load", and "Save the generated key". The "Save the generated key" button is highlighted with a red rectangular box, and it contains two sub-buttons: "Save public key" and "Save private key", both of which are also highlighted with red rectangular boxes. At the bottom, there is a section titled "Parameters" with a label "Type of key to generate:" followed by several radio button options, some of which are partially visible.

# Slurm - SSH Access on Windows

- Finally, copy the long key you get in  
"Public key for pasting into OpenSSH authorized\_keys file:"

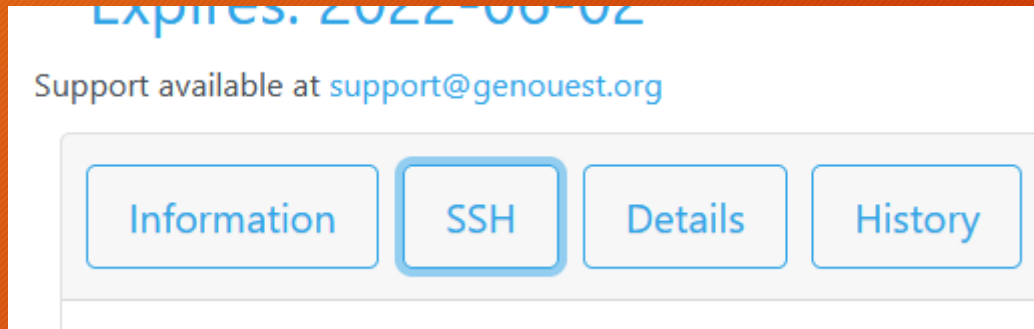


You can right-click  
there and choose  
« Select all »

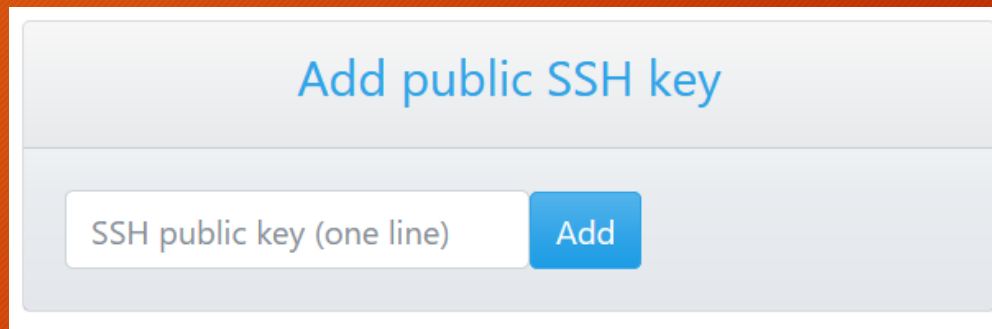
- This is the famous key that looks like this:  
*ssh-rsa xxxxx key\_name*
- Now we can go on <https://my.genouest.org/manager2/login>

# Slurm - SSH Access on Windows

- If you are correctly logged in, you should see this:



- Click on "SSH" and fill in the new field by pasting the key you got on the previous step

A screenshot of a form titled 'Add public SSH key'. The form has a light blue header with the title. Below the header is a text input field with the placeholder text 'SSH public key (one line)'. To the right of the input field is a blue button with the text 'Add'.

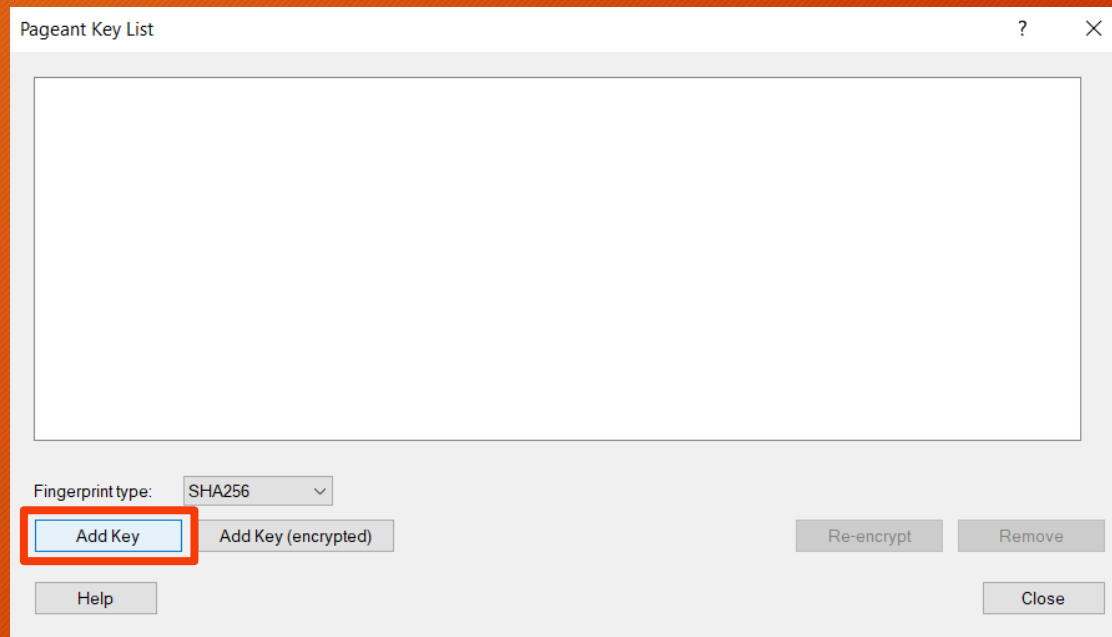
And click on "Add"



# Slurm - SSH Access on Windows

- We're almost done !

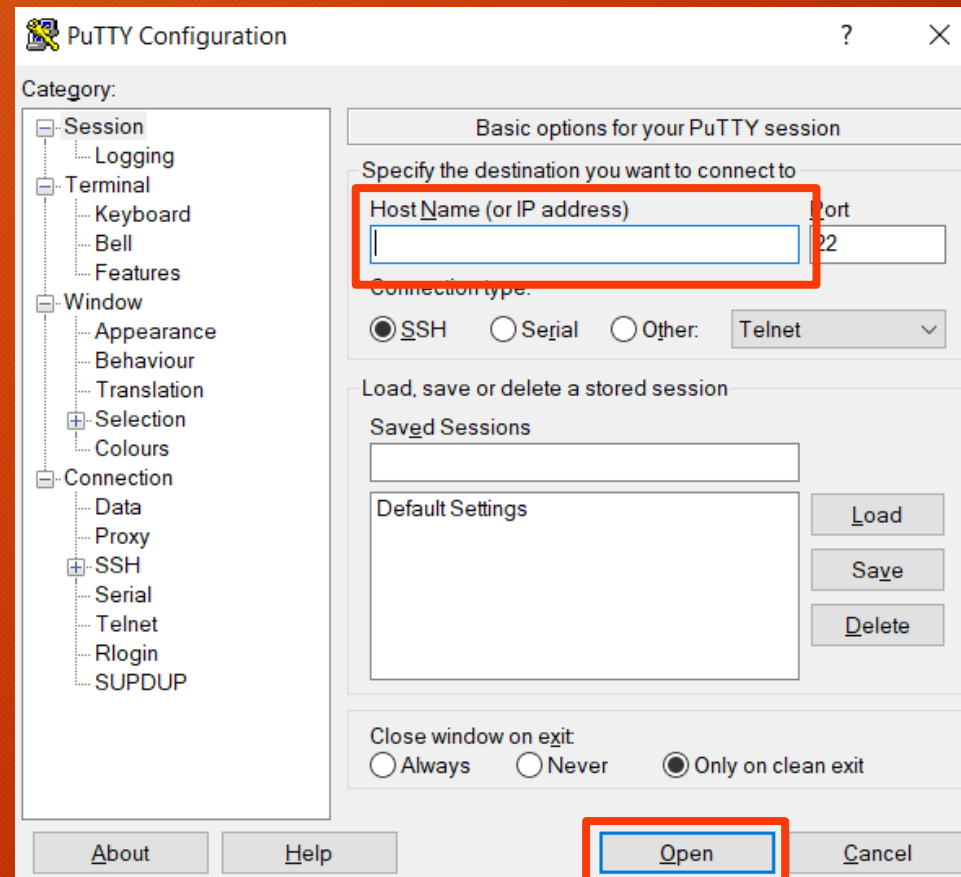
Now, we need to launch Pageant (installed with PuTTY)



- Click on "Add Key" and look for the private key you downloaded a few steps before (you'll need your passphrase)

# Slurm - SSH Access on Windows

- Finally, launch PuTTY
- At "HostName (or IP address)", you can fill in the field with for example:
  - **genossh.genouest.org**  
(to access to the cluster)
  - Or
  - **openstack.genouest.org**  
(to access to the cloud)



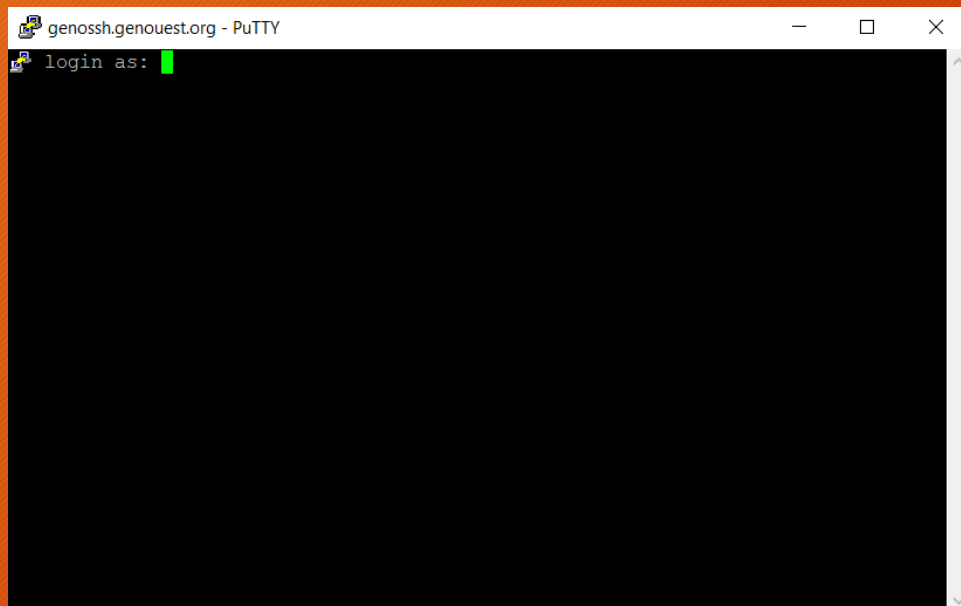
And click on "Open"



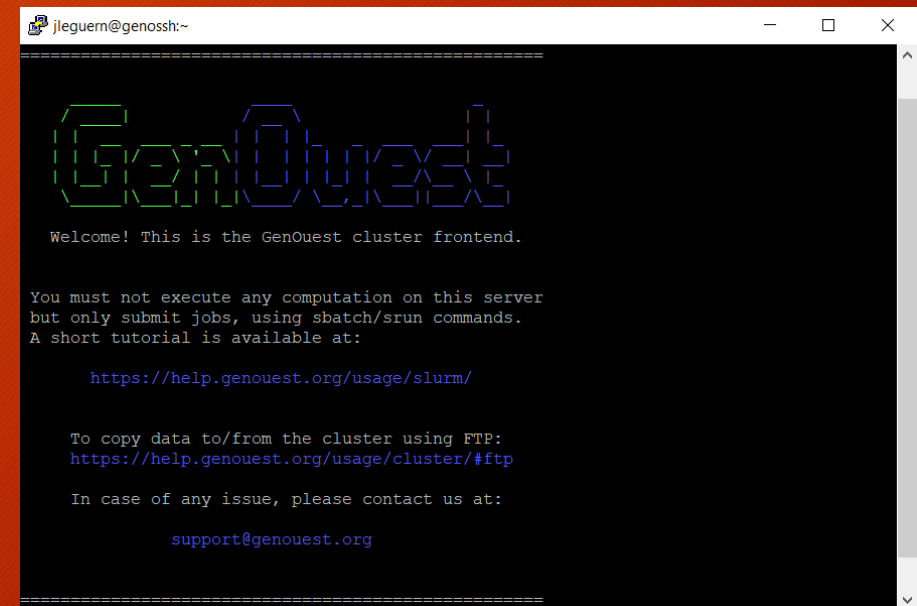
# Slurm - SSH Access on Windows

- If you see this, congrats !
- You just need your login (the name of your account in GenOuest)

- Click on « Enter »
- In the case of the cluster, you should see something like this:



```
genossh.genouest.org - PuTTY
login as: █
```



```
jleguern@genossh:~
=====
GenOuest
=====

Welcome! This is the GenOuest cluster frontend.

You must not execute any computation on this server
but only submit jobs, using sbatch/srun commands.
A short tutorial is available at:

    https://help.genouest.org/usage/slurm/

To copy data to/from the cluster using FTP:
https://help.genouest.org/usage/cluster/#ftp

In case of any issue, please contact us at:

    support@genouest.org
=====
```