



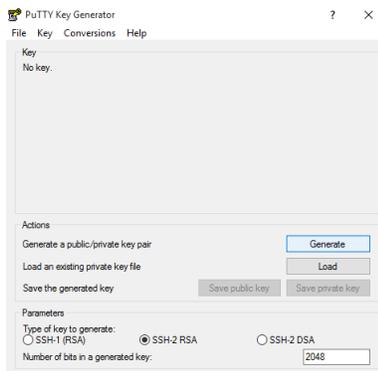
# GRID'5000 TEST-BED : GETTING STARTED TUTORIAL

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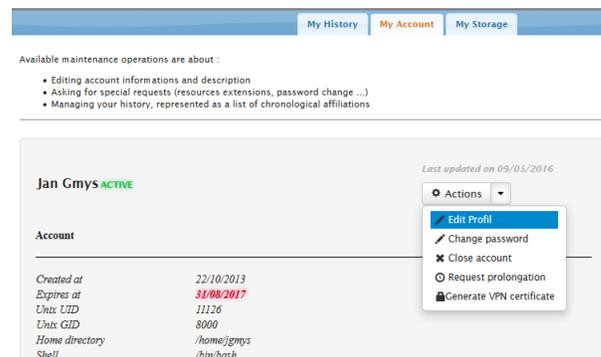
## 1 Instructions for MS Windows users

MS Windows does not natively support the Secure Shell (SSH) protocol needed for working with grid5000 (g5k). Therefore Windows users need to install specific software before starting to work with g5k : this document explains how to use the open-source software **PuTTY** in combination with **WinSCP** to start using g5k in a MS Windows environment. In the following we suppose that these programs have been installed.

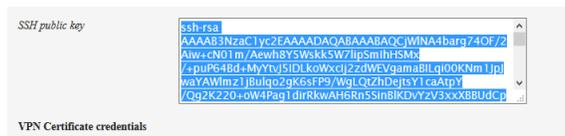
- One of PuTTY's components is PuTTYgen. First, open the PuTTYgen key generator.
- Generate a public/private key pair by creating some randomness (Fig. 1a). Then, save your private\_key (.ppk file) in a directory of your choice.
- On the g5k website, go to *Users Portal* > *Manage Account* and choose the option *Edit Profile* (Fig. 1b).
- Now, copy-and-paste the public\_key to the *SSH public key* field (Fig. 1c). Note that it is possible to enter several keys, for different workstations, one after the other.



(a) Generate public/private key.



(b) Users Portal > Manage Account.



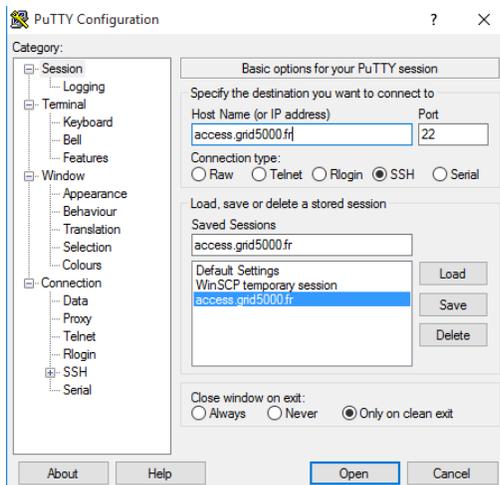
(c) Paste the whole ssh public key here.

FIGURE 1 – Enabling your authentication in grid5000

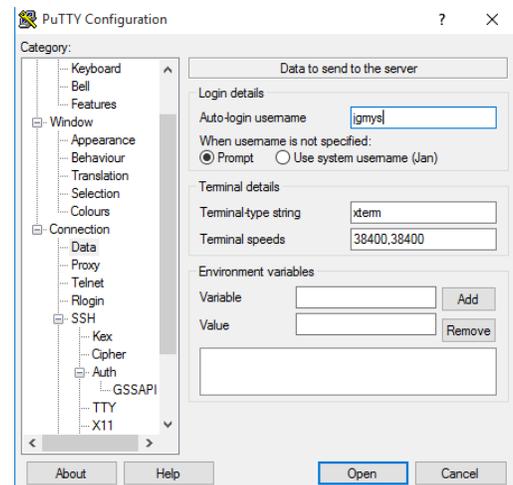


☛ *Now, let's configure PuTTY. To do this, start PuTTY and fill in the necessary information.*

- ☛ Hostname : access.grid5000.fr / Port : 22 / Connection Type : SSH (Fig 2a)
- ☛ Go to *Connection > Data* and fill in your username (Fig 2b).
- ☛ In *Connection > SSH > X11* select "Enable X11 forwarding"
- ☛ Go to *Connection > SSH > Auth* and specify the location of private\_key (the .ppk file created with PuTTYgen)
- ☛ Finally, save the configuration (Fig 2a) and try to connect to g5k (hit the "Open" button)



(a) Hostname, etc.



(b) Username

FIGURE 2 – Configuration of PuTTY

☛ *As a last step, we need to configure WinSCP, which is used for secure file transfers.*

- ☛ Start WinSCP.
- ☛ Go to *Tools > Import* and import the PuTTY configuration just created.
- ☛ Connect - you should now be able to access your home directories on g5k through the WinSCP GUI.

☛ **Now you can follow the rest of this tutorial (almost) as if you were a Linux user.**