

# Create Private/Public key pair

## Windows 10

In order to create a private/public key pair in Windows 10 we will use PuTTY which can be downloaded from:

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

To install the complete PuTTY packages donload [putty-64bit-0.74-installer.msi](#) from the package file section. Alternatively, you can download the 64-bit binary files [putty.exe](#) & [puttygen.exe](#).

### Create Keys

1. Go to the magnifying lens, next to the start button, on the bottom left-hand corner of your screen.
2. Type puttygen and press ok. A new window like the one in figure 1 will open, i.e. the key generator.
3. Στο παράθυρο που θα ανοίξει πατήστε το generate και συνεχίστε να κινείτε το mouse πάνω από το παράθυρο του generator. In this new window, press the "generate" button and continue to move your mouse (hover) on top of the key generator window.
4. From within the generator window, copy the Public key and paste it in an e-mail. Send this e-mail to HPC Administrators [hpcadmins@ucy.ac.cy](mailto:hpcadmins@ucy.ac.cy) .
5. Press the "save private key" button and save your private key somewhere safe on your computer, not on the Desktop. When saving, give it a name e.g. id\_rsa.ppk. **This key (file) must never be sent to anyone.**

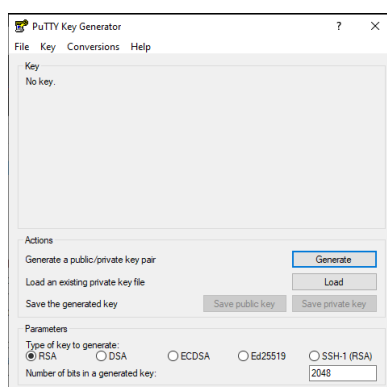


Figure 1

Once you have an account, in order to connect to the HPC you must configure putty.exe

6. Again, press the magnifying lens on the bottom left-hand corner of your screen.
7. Type putty and press ok. A new window like the one on Figure 2 will open.
8. In the field Host Name (or IP address) type `<userid>@turing1.ucy.ac.cy` where `<userid>` is the userid of your account at the University of Cyprus.
9. In the left-hand side menu press "+" next to the category SSH, Figure 3.
10. Press Auth and then "Browse". Choose the private\_key you saved earlier in step 5.

11. From the left menu, press category "Session" and then in the field "Saved Sessions" type the name by which you want to remember this connection, i.e. "Turing1".
12. Press save.
13. To use this connection, you open the putty application, Figure 2, and doubleclick on "Turing1".

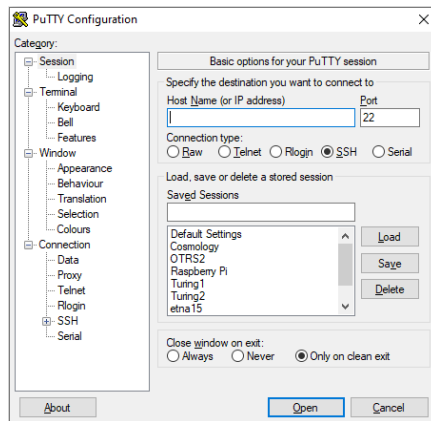


Figure 2

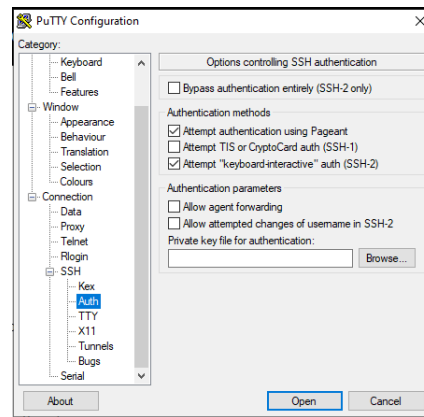


Figure 3

## Linux & MAC OS X

Computers and workstations using Linux and MAC OS X have their own ssh, key-generator and scp utilities. Create private/public key pairs by following the steps below:

1. From command line run the command `ssh-keygen -t rsa` and press "Enter".
2. In the passphrase prompt leave empty and press "Enter".
3. In your home directory under the directory `.ssh` a file with the name `id_rsa.pub` will be created.
4. Send this file to [hpcadmins@ucy.ac.cy](mailto:hpcadmins@ucy.ac.cy). If you already have an account for the HPCcopy the contents of this file in `~/ .ssh/authorized_keys` on the University of Cyprus' HPC.