

NoMachine NX Client Configuration Guide

Configuration steps for ssh key login

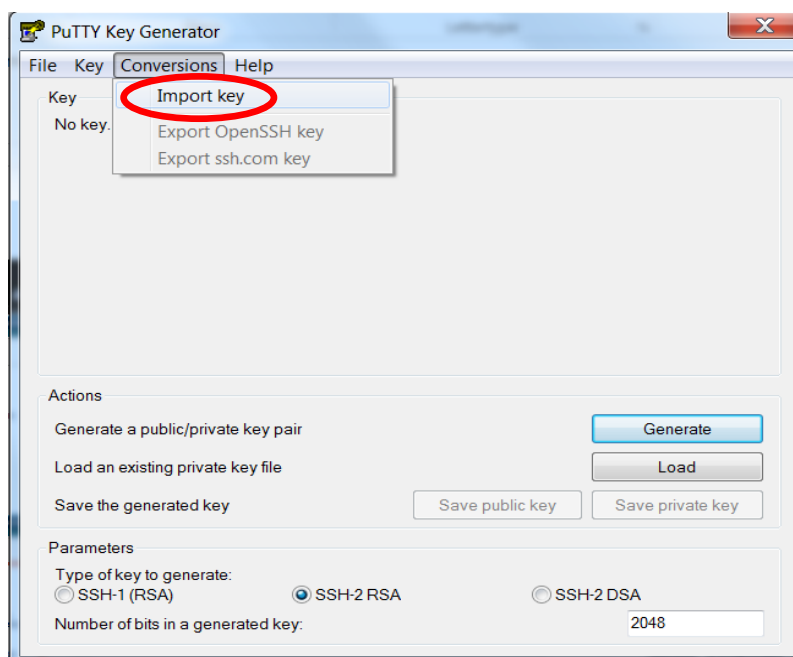
Step 1: NoMachine NX requires keys in OpenSSH format, therefore the existing key needs to be converted into OpenSSH format.

➤ Windows users

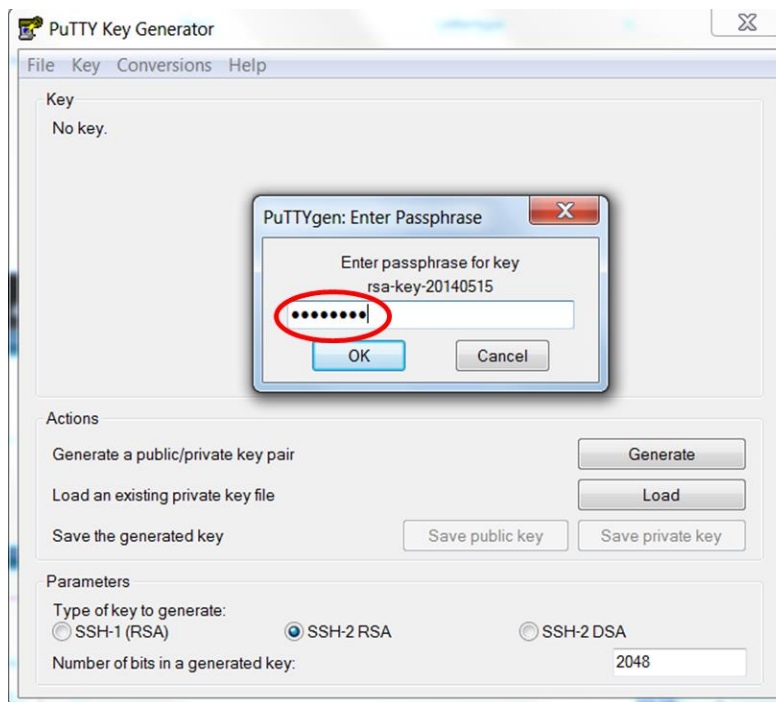
Should be aware that the default keys generated with Putty are not in OpenSSH format and can be converted with Putty Key Generator

(<http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>) following the few steps:

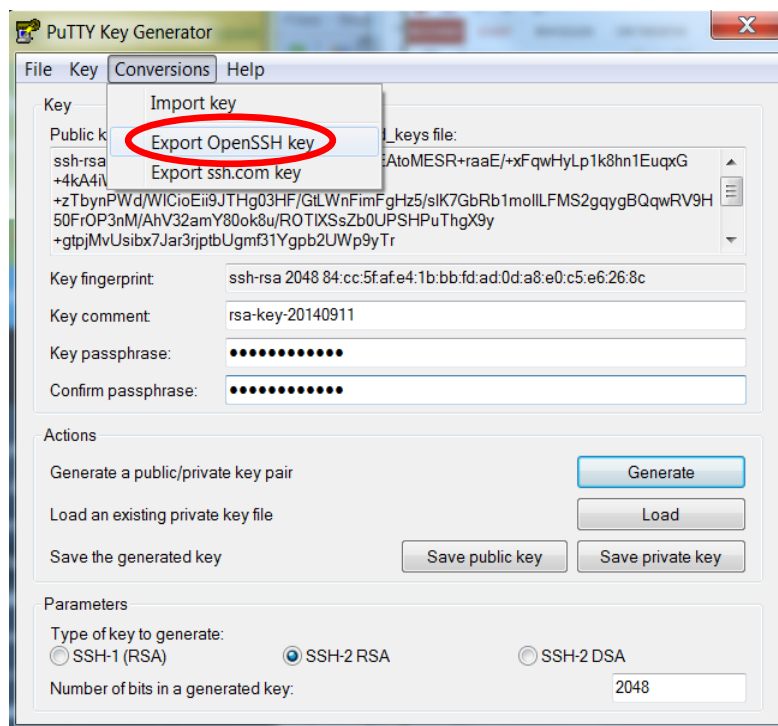
- 1) Start PuTTYgen.
- 2) From the 'Conversions' menu, select 'Import key' and choose the file containing your PuTTY private key that is used to authenticate on the VSC cluster.



- 3) When prompted, enter the appropriate passphrase.



- 4) From the 'Conversions' menu, select 'Export OpenSSH key' and save it as 'id_rsa' (or any other name if the former already exists). Remember the file name and its location, it will have to be specified in the configuration process of NoMachine NX.



- 5) Exit PuTTYgen.

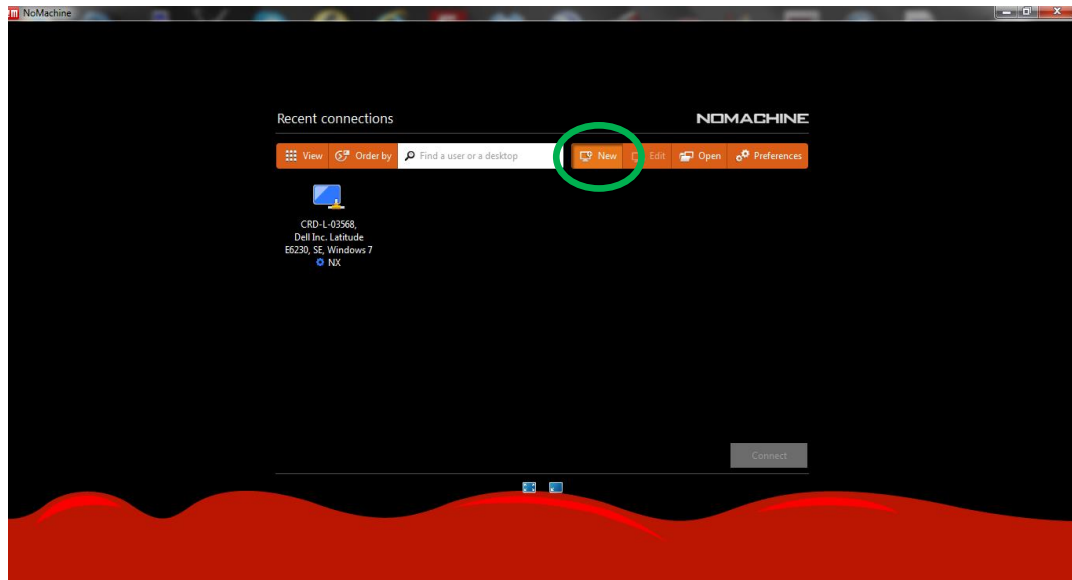
➤ Linux users

can convert the key using the command:

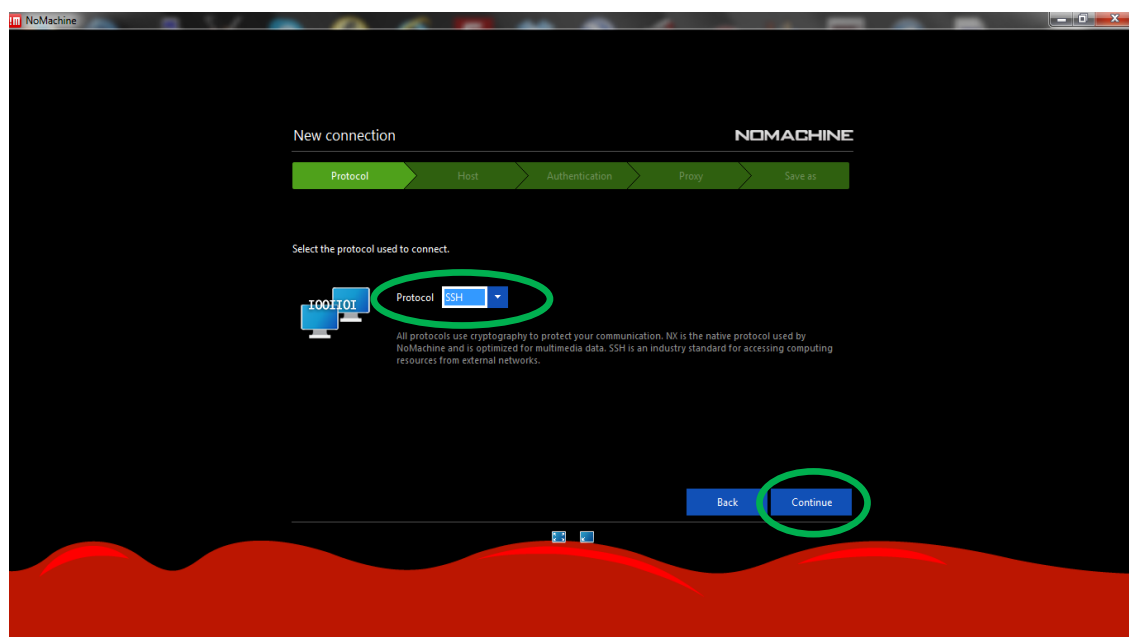
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$ ssh-keygen -i -f key-in-ssh2-format > key-in-openssh-format
```

Step 2: Launch the NoMachine and press twice continue to see the screen with connection.

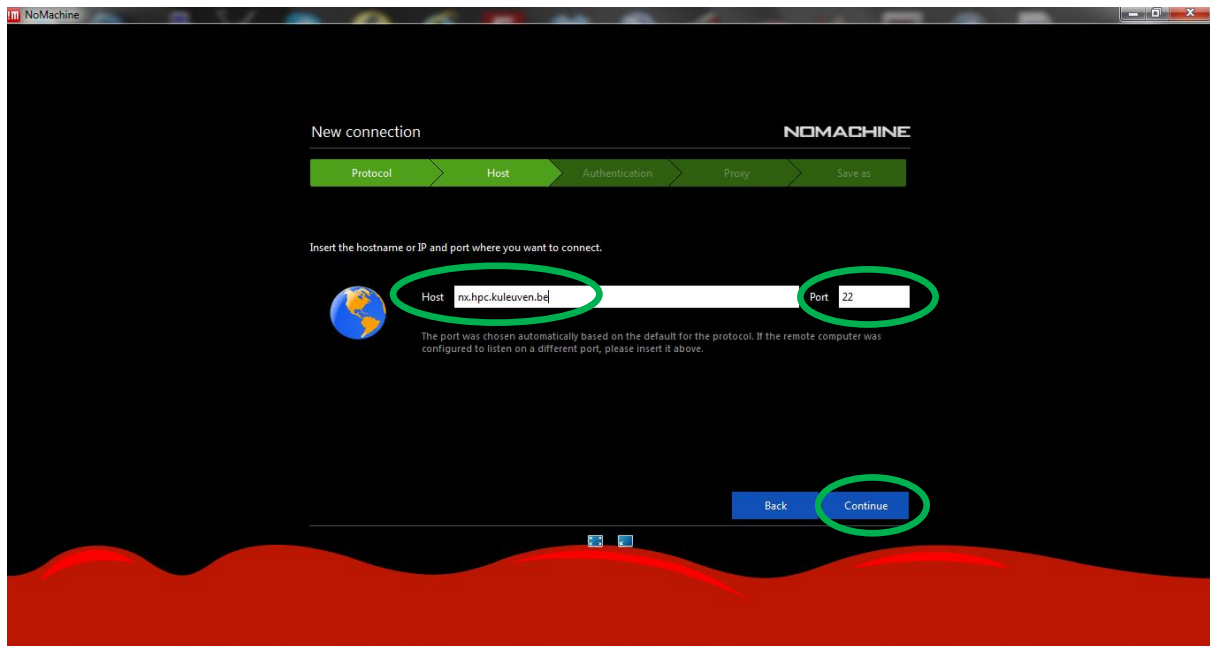
Press “New” to create a new connection:



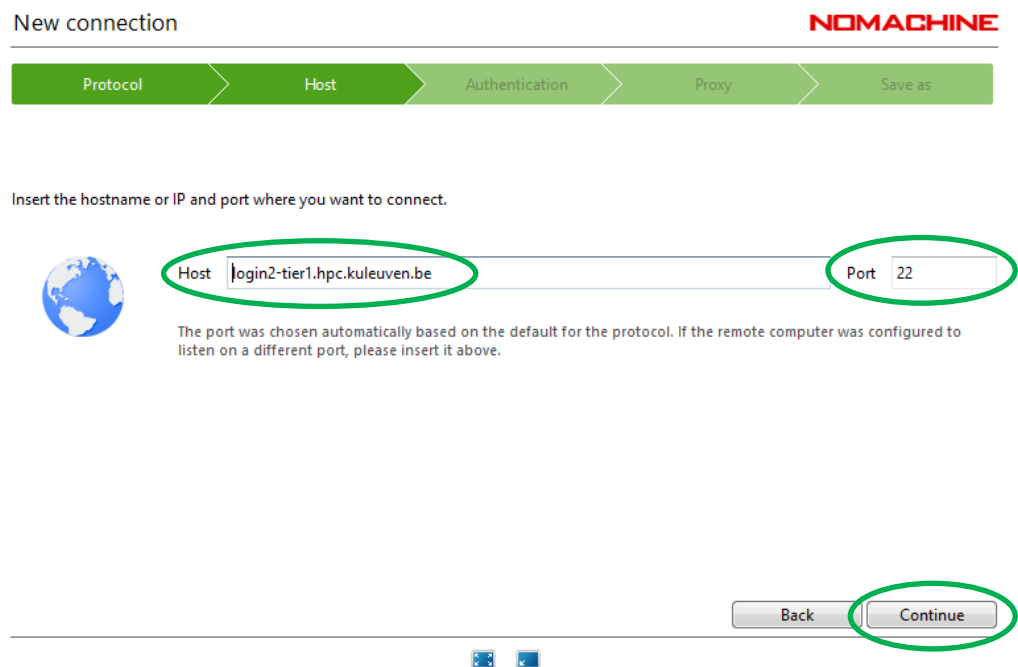
Step 3: Change the Protocol to *SSH* and press continue:



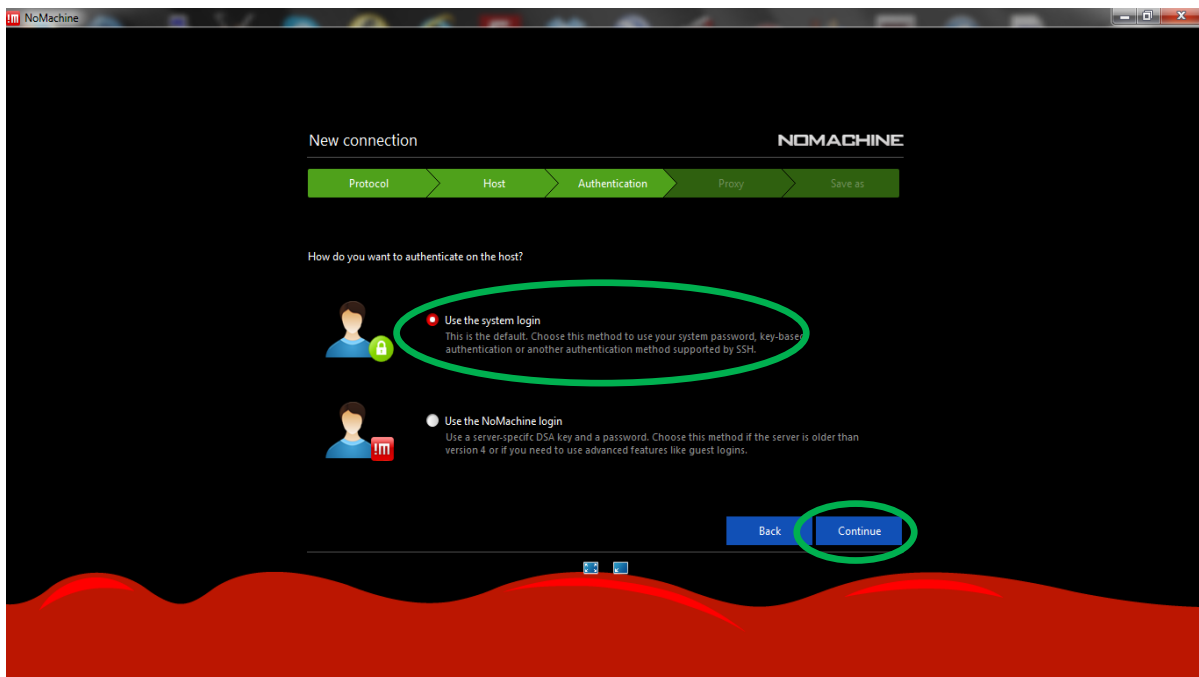
Step 4: Choose the hostname: *nx.hpc.kuleuven.be* (ThinKing) or *login2-tier1.hpc.kuleuven.be* (BrENIAC) and port *22* and continue:



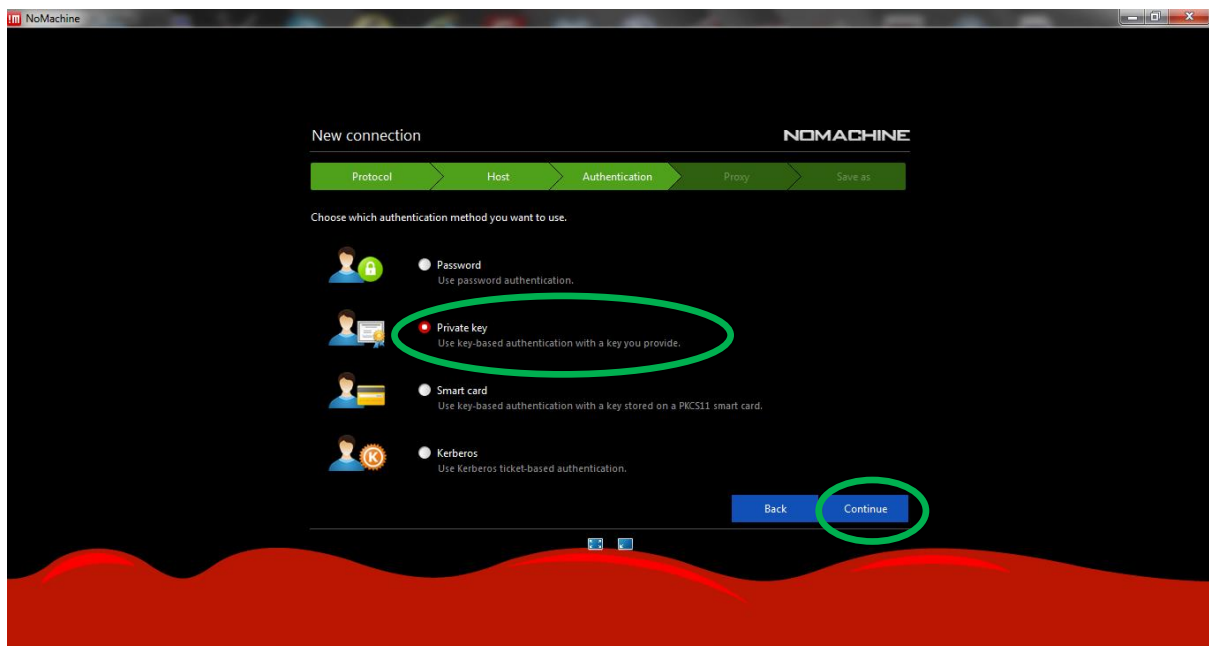
or



Step 5: Choose the option: *Use the system login* and continue:



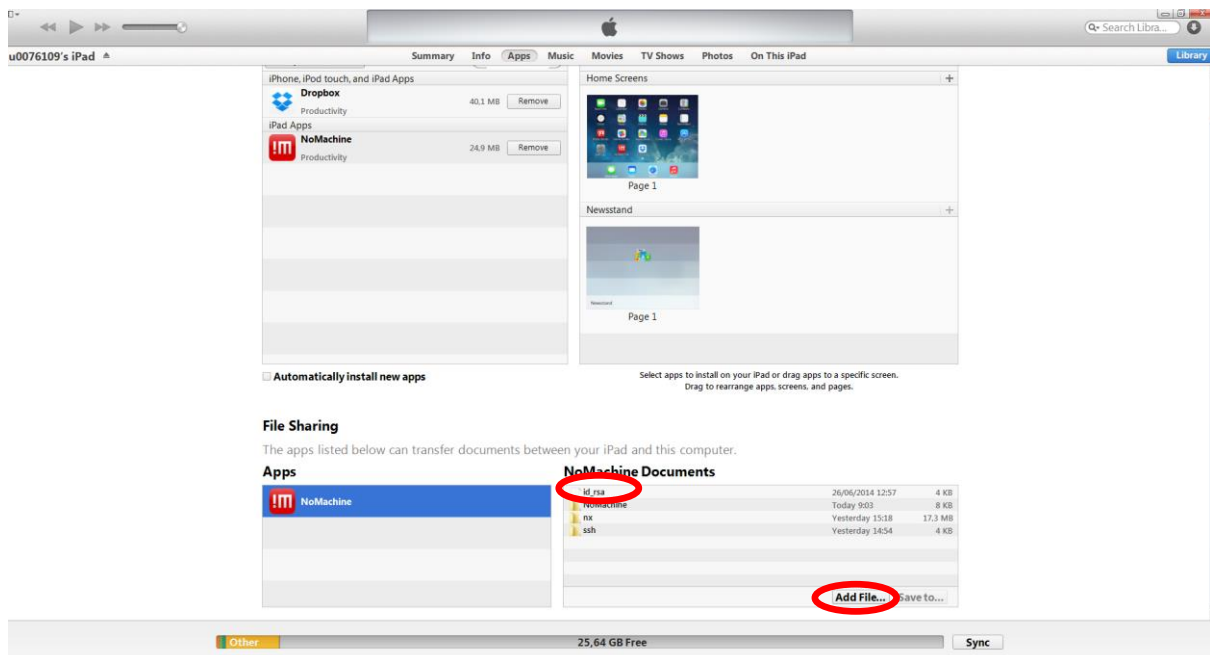
Step 6: Choose the authentication method as: *Private key* and continue:



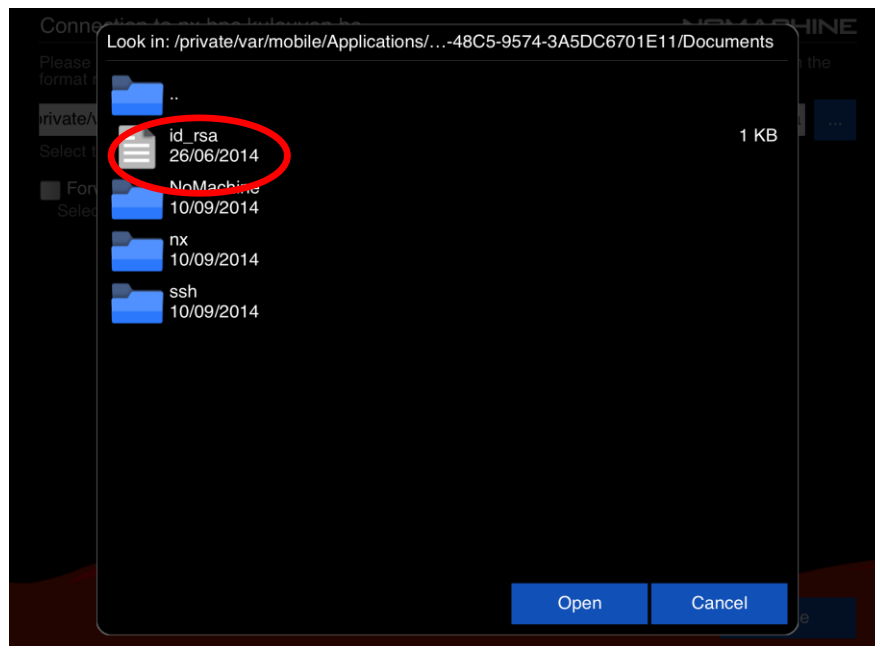
Step 7: Browse your private key (converted according to instructions in Step 1). The key should be in OpenSSH format (not .ppk). After choosing the file press “Done”. In case of configuration on a mobile device please follow Steps 7a-7b, otherwise continue with Step 8.

Step 7a: Before continuing with browsing your key it needs to be saved on your device.

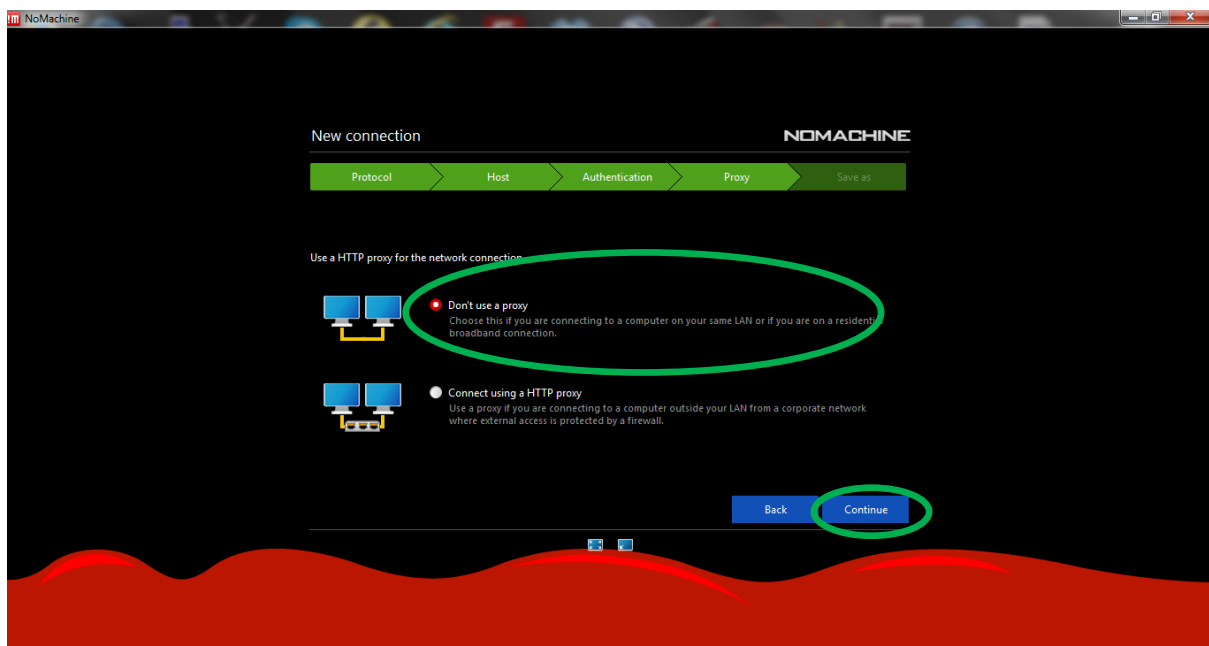
- For Android users it is easy to transfer your key and save it in a chosen location with Box (KU Leuven) or Dropbox (U Hasselt) apps.
- For iOS users (iPad running iOS 5 or later) it is possible to transfer the key with iTunes. Connect your device through iTunes, go to the connected device, choose the “apps” tab, scroll down to “file sharing”. Select the NoMachine client and add files to NoMachine Documents. Remember to Sync your device. Once the file is added you will see it listed:



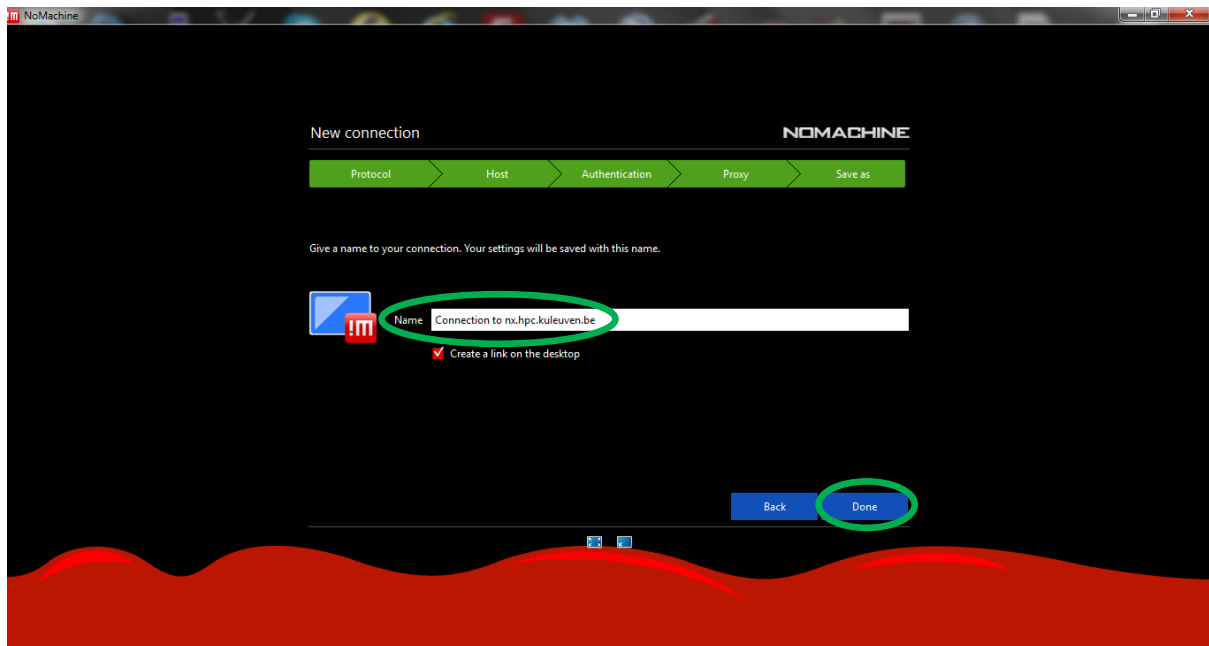
Step 7b: Browse your file from the given location:



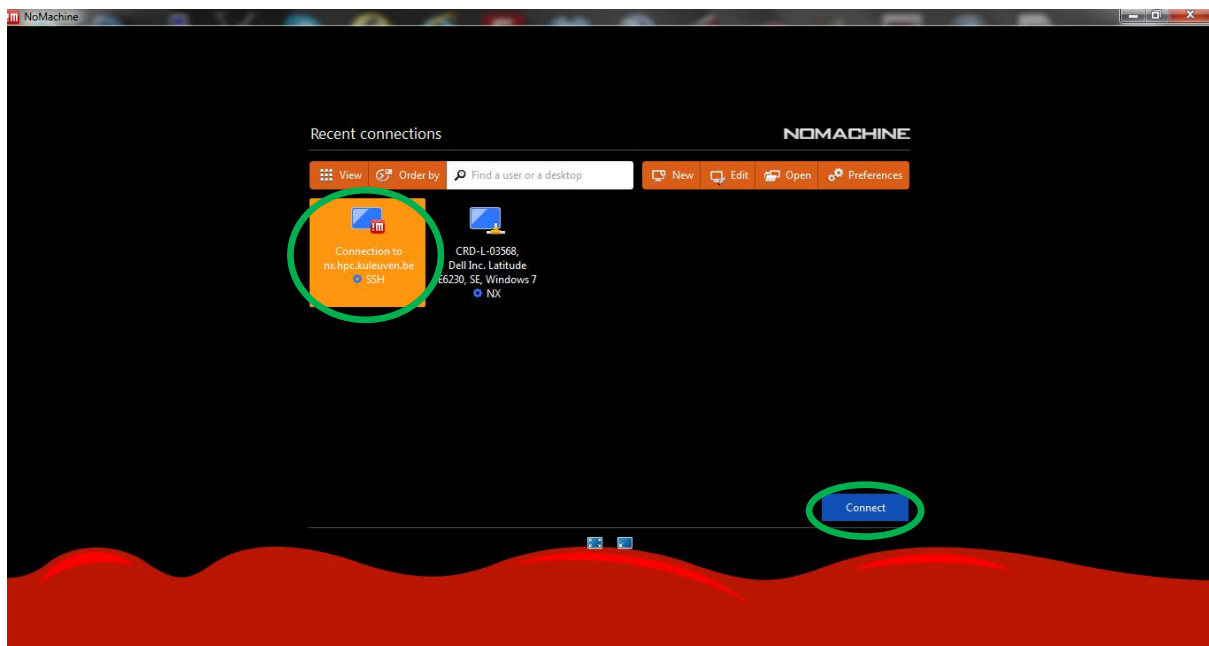
Step 8: Choose the option *Don't use proxy* and continue:



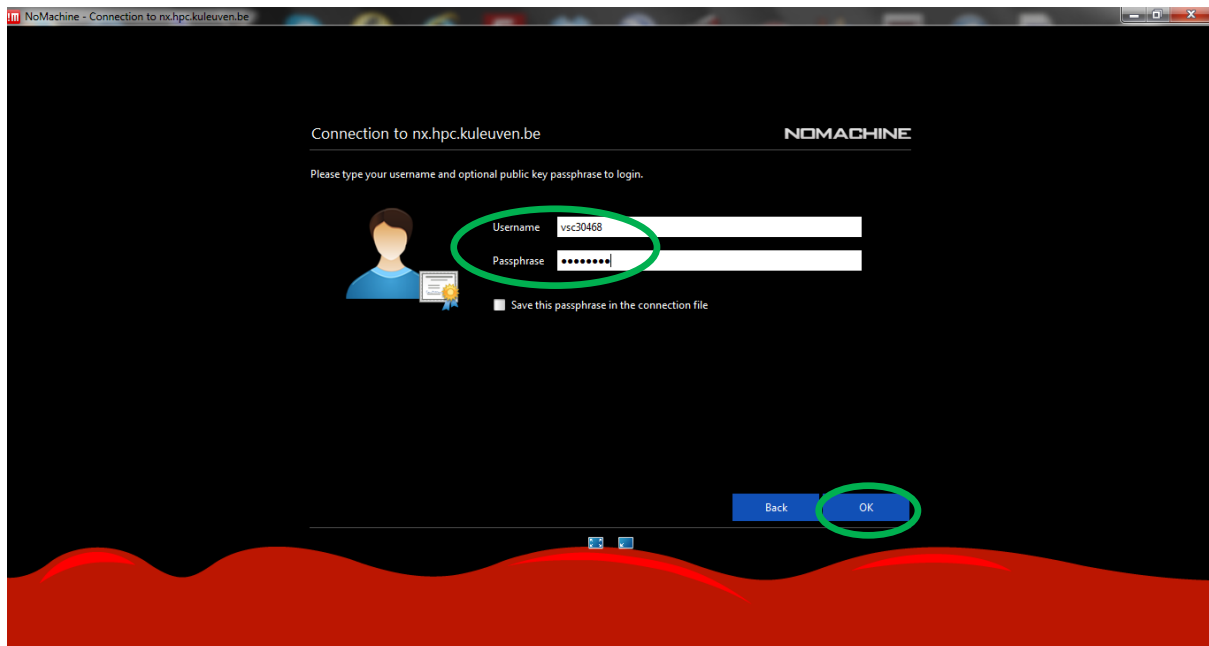
Step 9: Give the name to your connection, e.g. *Connection to nx.hpc.kuleuven.be* and press “Done”. You can optionally create the link to that connection on your desktop.



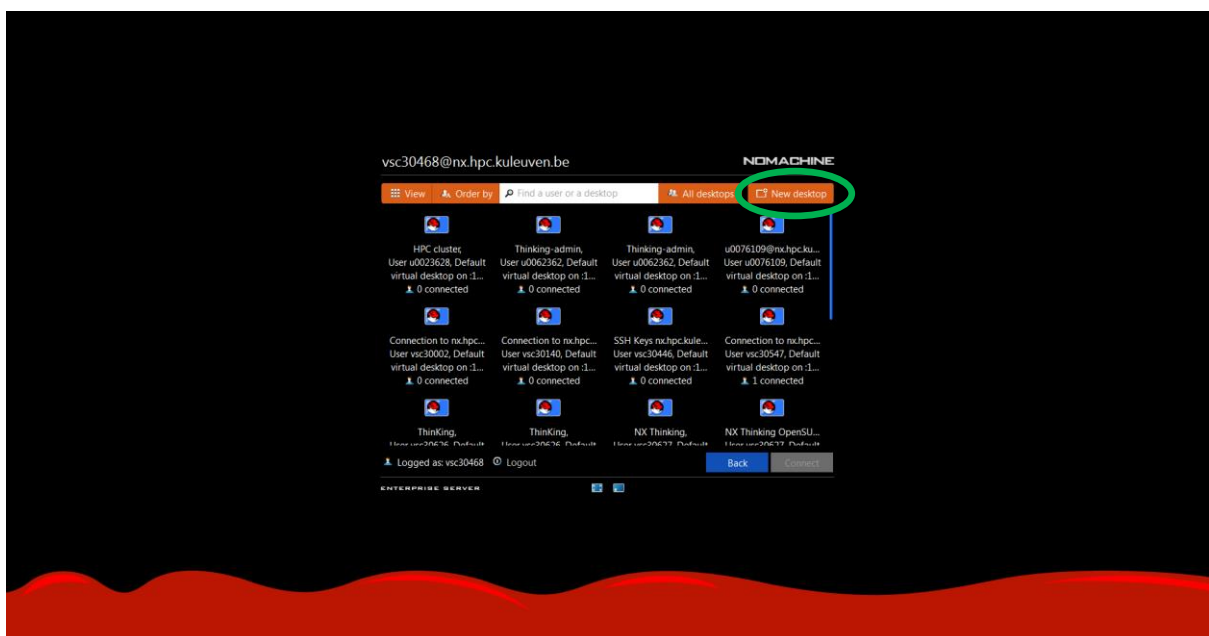
Step 10: Choose the just created connection and press “Connect”



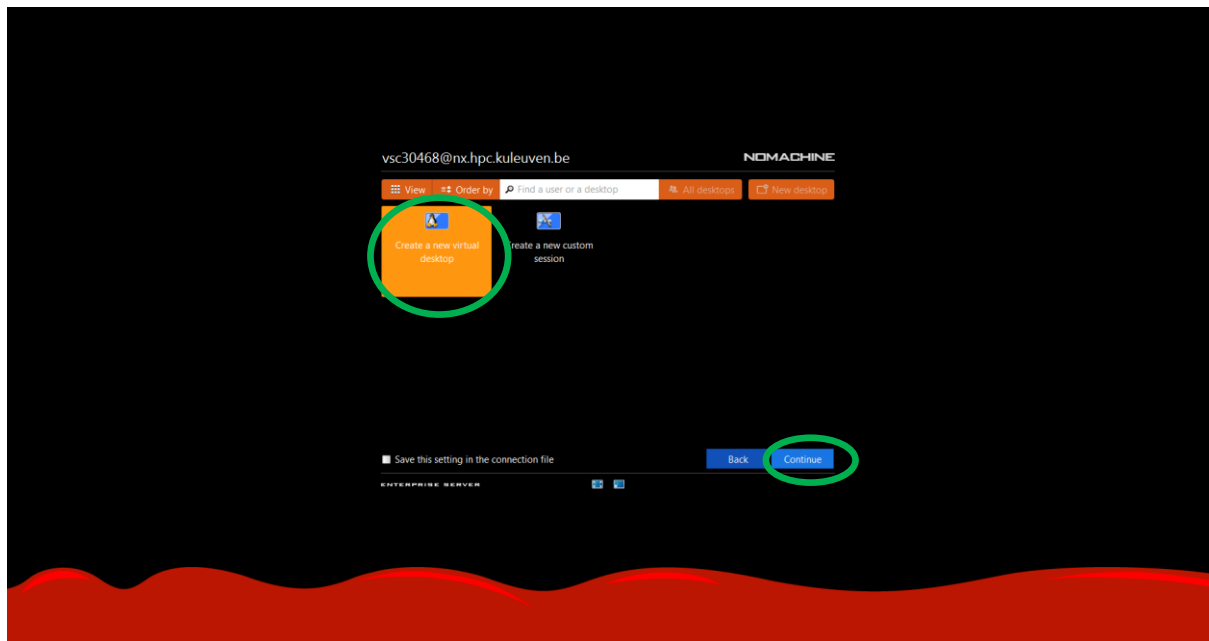
Step 11: Enter your *username* (vsc-account) and *passphrase* for your private key and press “ok”:



Step 12: If you are creating for the first time choose *New desktop*. Otherwise please go to step 16 for instructions how to reconnect to your session.



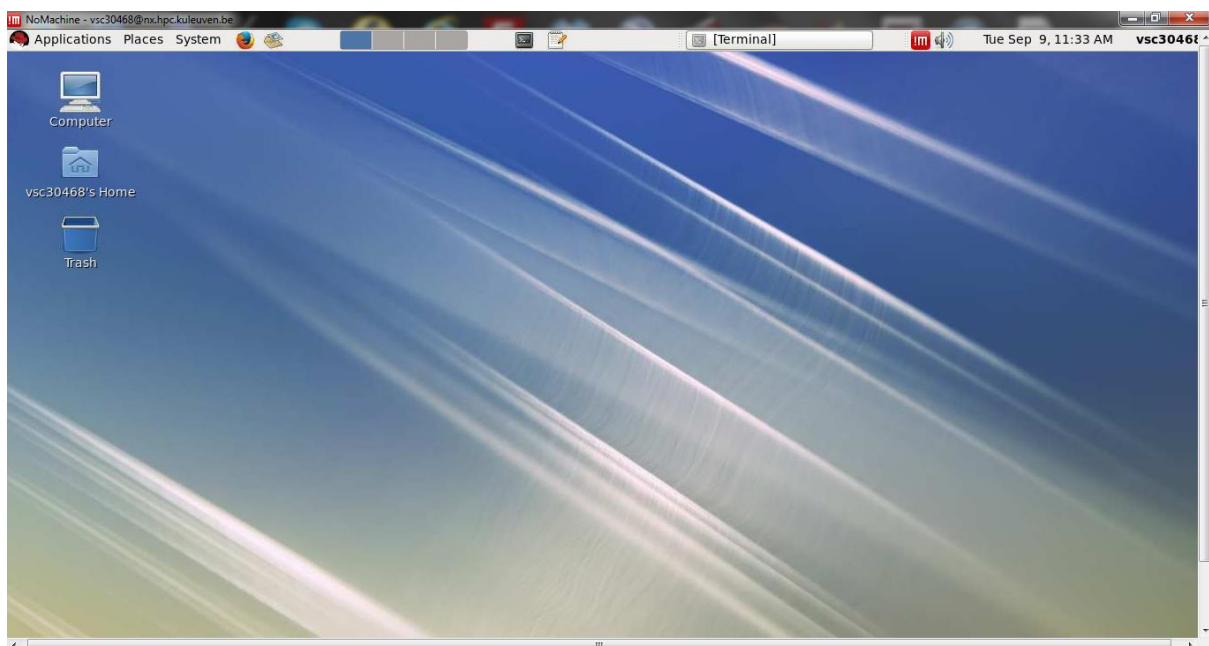
Step 13: Choose *Create a new virtual desktop* and continue:



Step 14: Read the useful information regarding your session preferences and use displayed on several screens and confirm each time with “ok” (This step is very important in case of mobile devices – once you miss the instructions it is not so easy to figure out how to operate NoMachine on your device). You can optionally choose not to show these messages again.

Step 15: Once connected you will see the virtual Linux desktop:

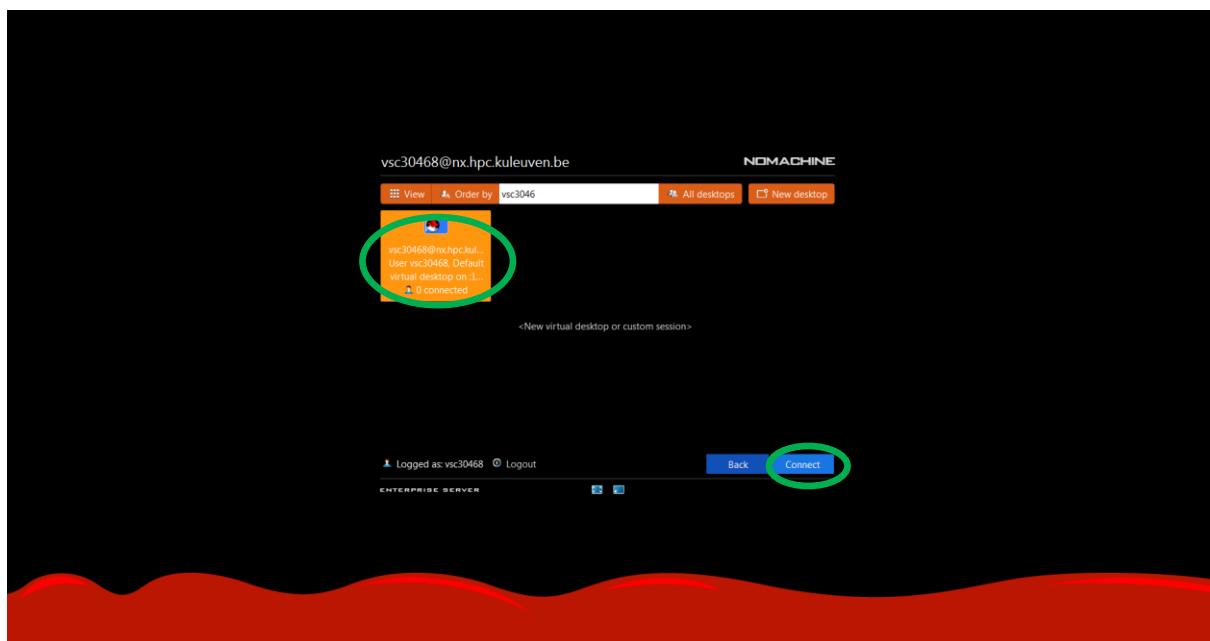
on ThinkKing



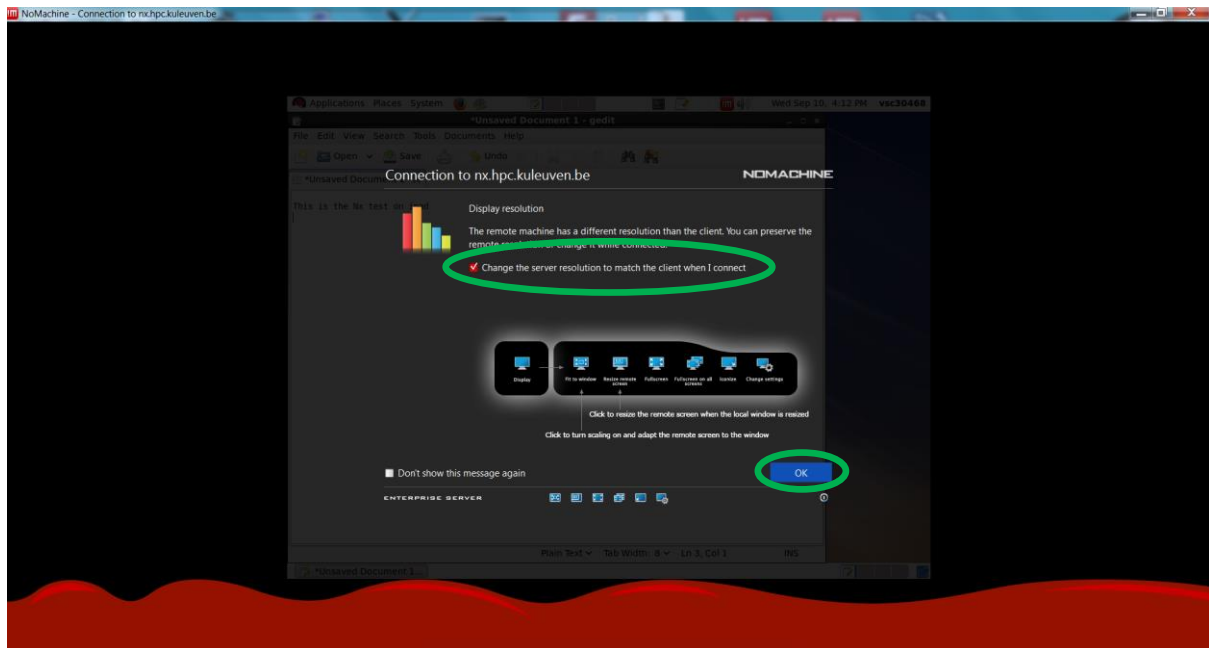
or on BrENIAC



Step 16: When reconnecting choose your desktop from all the listed ones. If there are too many you can use the option “find a user or a desktop” and type your username (vsc-account). Once you found your desktop press “connect”:



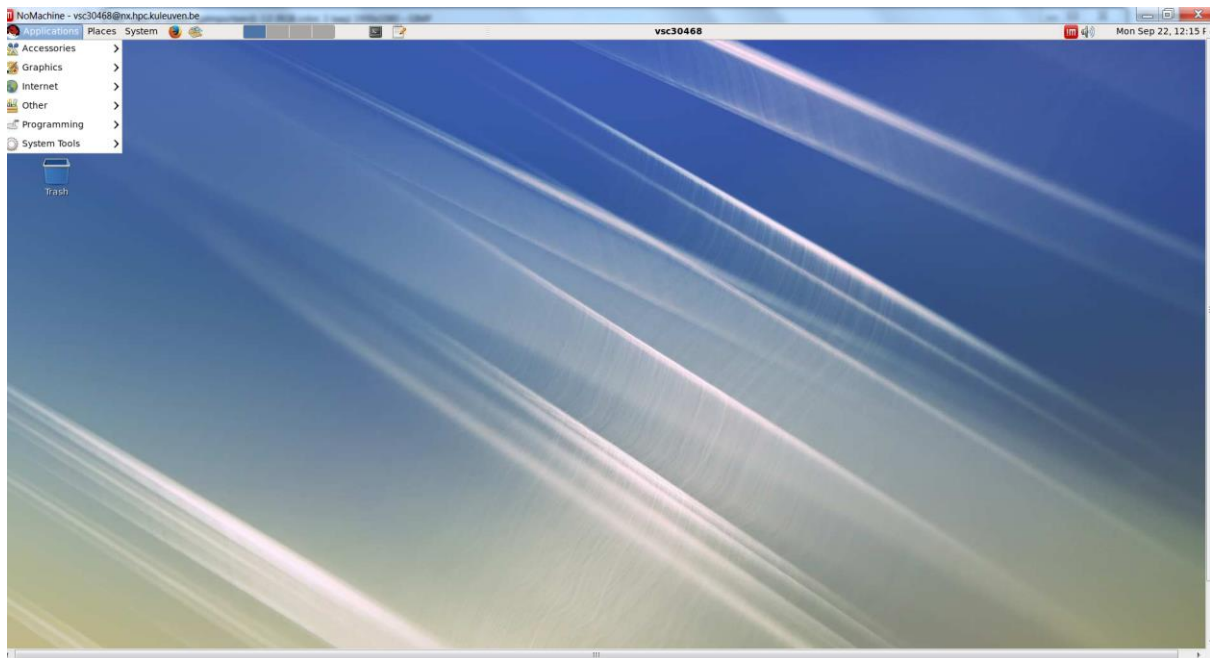
Step 17: You will be prompted about the screen resolution (*Change the server resolution to match the client when I connect*) which can be changed to match the client when you connect. It is a recommended setup as your session will correspond to your actual device resolution. While reconnection from a different device (e.g. mobile device) it is highly recommended to change the resolution.



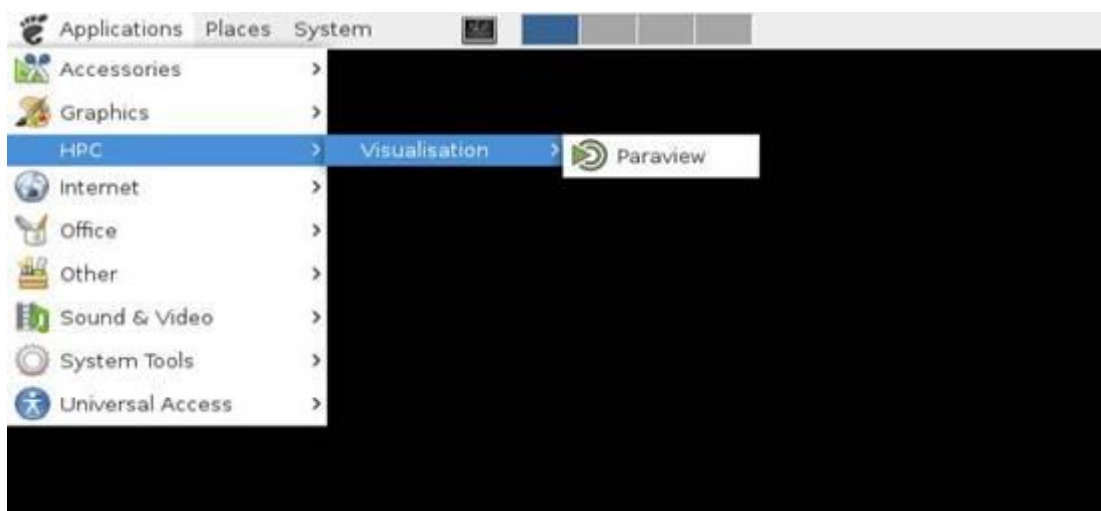
How to start using NX?

Step A: Once your desktop is open, you can use all available GUI designed software that is listed within the *Applications menu*. Software is divided into several groups:

- Accessories (e.g. Calculator, Character Map, Emacs, Gedit, GVim),
- Graphics (e.g. gThumb Image Viewer),
- Internet (e.g. Firefox with pdf support),
- Other (e.g. Matlab),
- Programming (e.g. Meld Diff Viewer),
- System tools (e.g. File Browser, Terminal).



Paraview on BrENIAC can be started from HPC bookmark:



Step B: Running the applications in the text mode requires having a terminal open. To launch the terminal please go to Applications -> System tools -> Terminal. From Terminal all the commands available on regular login node can be used.

