USING SSH KEYS WITH PUTTY, WINSCP AND FILEZILLA ON WINDOWS

1. INSTALL PUTTY AND PUTTYGEN

The applications PuTTY and PuTTYgen have to be installed in order to ssh to Linux servers with private key on Windows. The installer can be found from https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html

After installation, the two applications can be found as shown:

2. CONVERSION OF EXISTING PRIVATE KEYS

1. Save your id_rsa key to the Windows desktop.
2. Launch **PuTTYgen** and click "conversions" > "import key" to open your id_rsa key
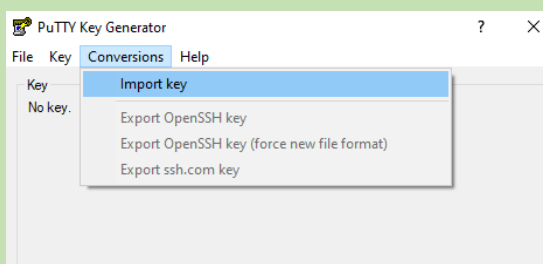
3. After opening the key, click "Save private key"

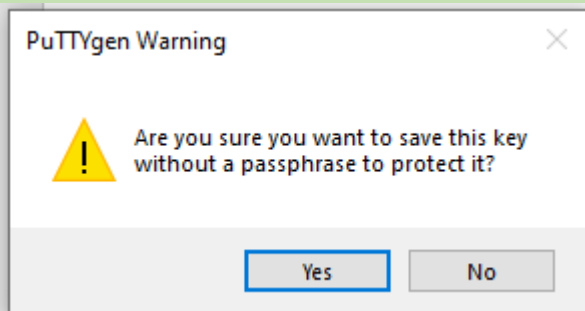| Key comment: | imported-openssh-key |
| Key passphrase: | |
| Confirm passphrase: | |

Actions

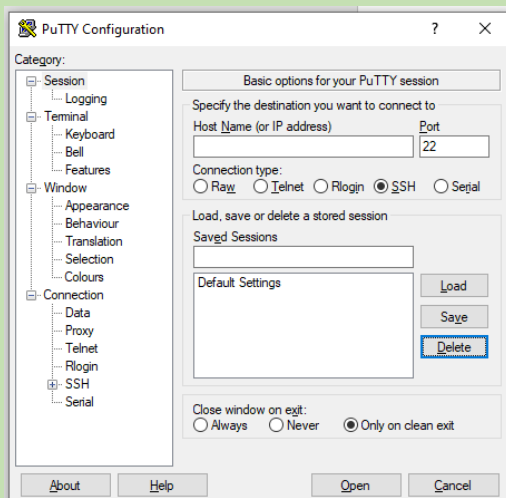| Generate a public/private key pair | | Generate |
| Load an existing private key file | | Load |
| Save the generated key | Save public key | Save private key |

4. Click yes to save the key without passphrase as "id_rsa.ppk" on the desktop
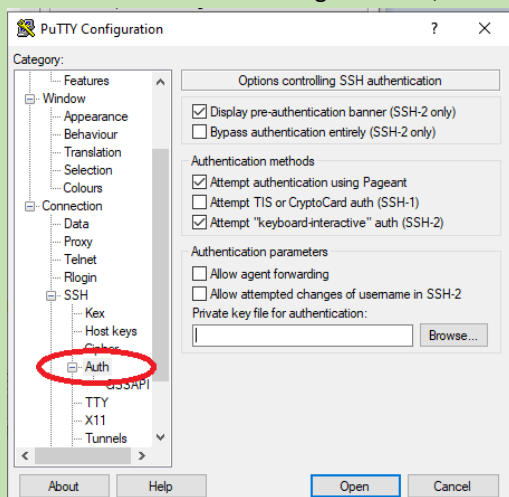

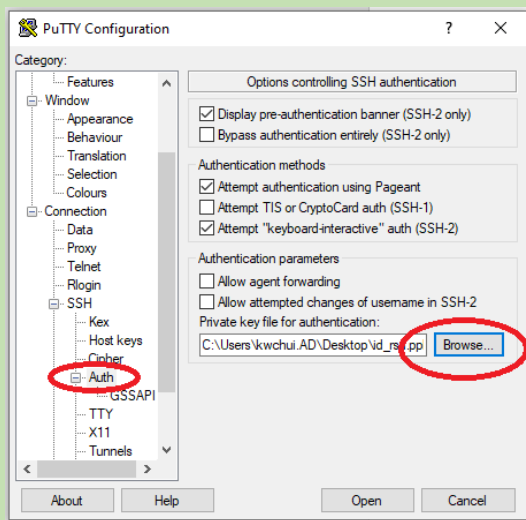## 3. CONNECT TO LINUX SERVER WITH PRIVATE KEY
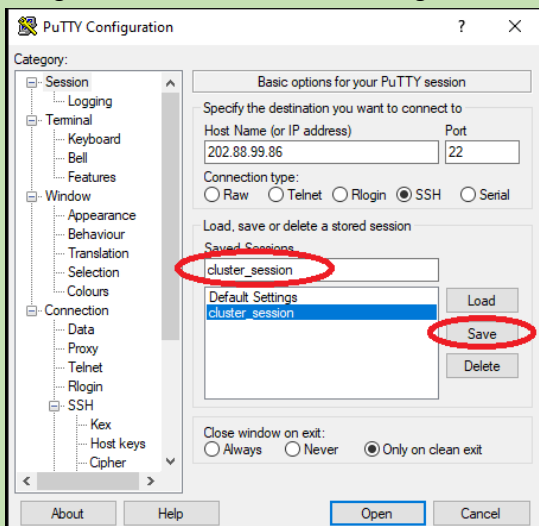
1. Launch **PuTTY** as shown

2. Fill in the "Hostname(or IP address)" textbox with target host's information
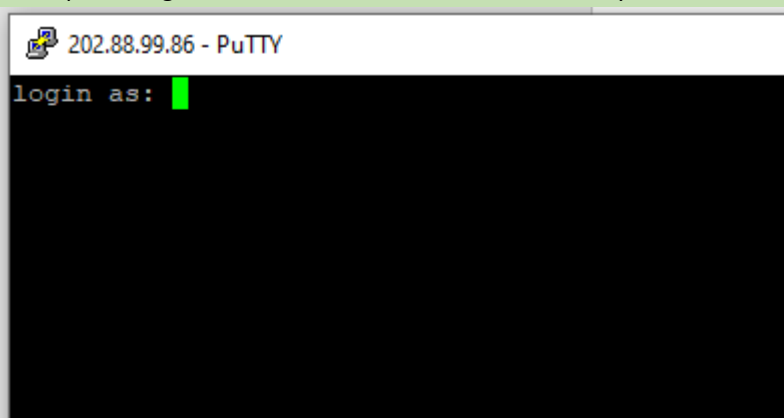3. On the left-handed side navigation tree, click "connection">"SSH">"Auth"

4. Click Browse to select the converted private key "id_rsa.ppk" and click open.

5. Navigate back to "Session" in the navigation tree. Save your settings as a named session as shown:

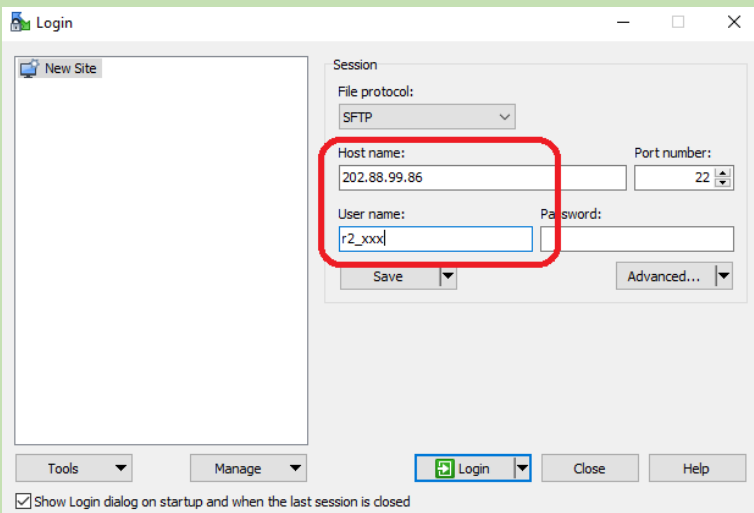6. Click open to log into the remote Linux server with the key.

1. Install WinSCP

The application WinSCP has to be installed in order to copy files between Linux Server and Windows with private key. The installer can be found from https://winscp.net/eng/download.php
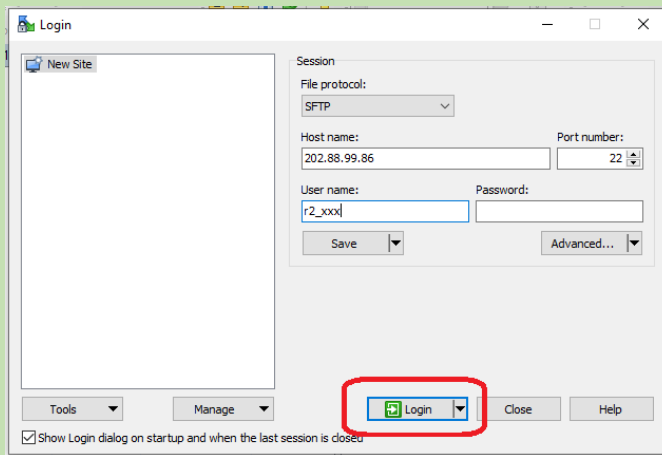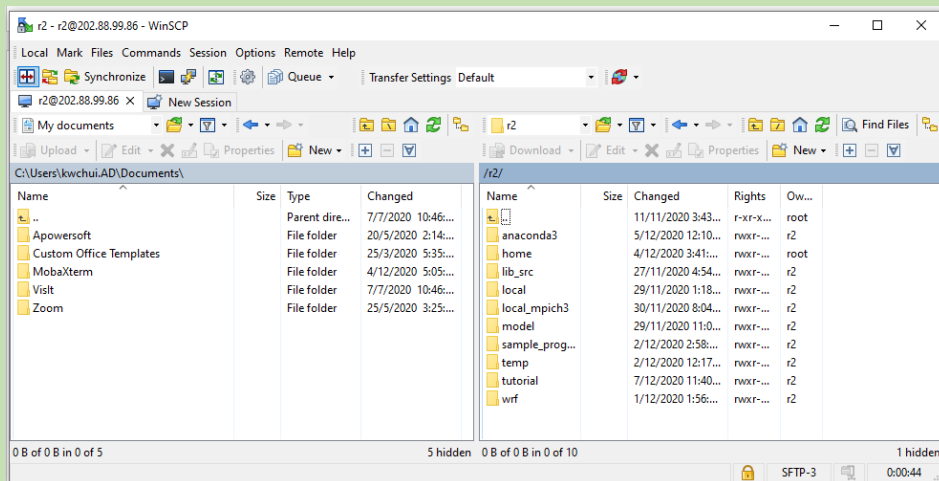
2. Launch WinSCP and edit the details of the sessions

3. Click "Advanced", a new prompt window will popup. Select "SSH">"Authentication" on the lefthanded side. Click "…" on the right to choose your converted private key on the desktop. Finally click OK.
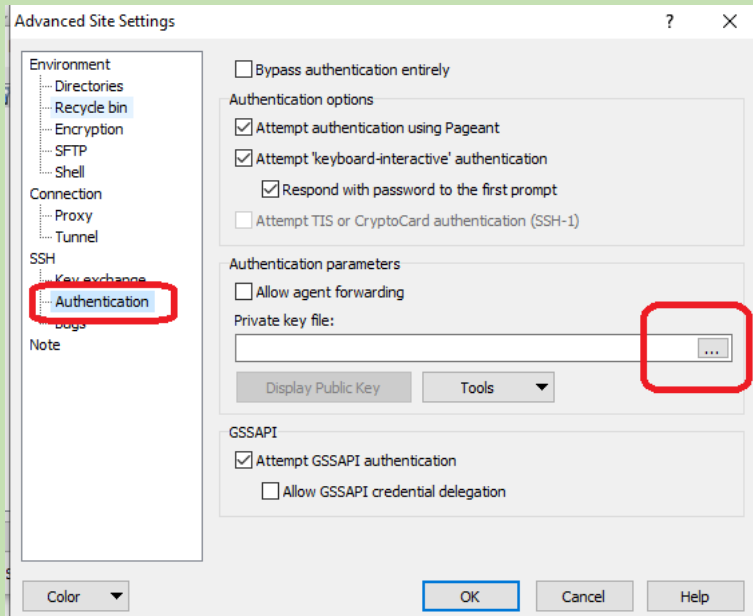
4. Click "login" to log into the server

5. Finally, the server side directories are shown on the right pane as shown:
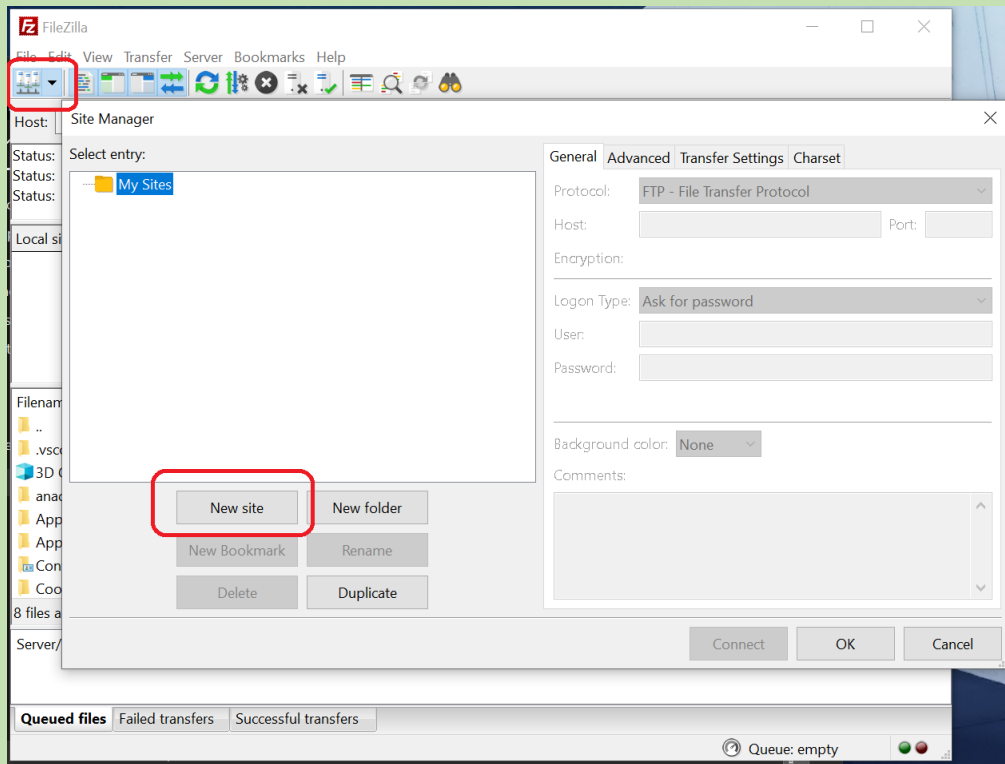
1. Install FileZilla Client
    Another FileZilla Client application may be used to transfer files between Linux Server and Windows with private key.
   The installer can be found from https://filezilla-project.org/

2. Launch FileZilla Client and click the "site manager" button on the menu bar. A new site manager window will popup. Click "New site" button to edit a new session.
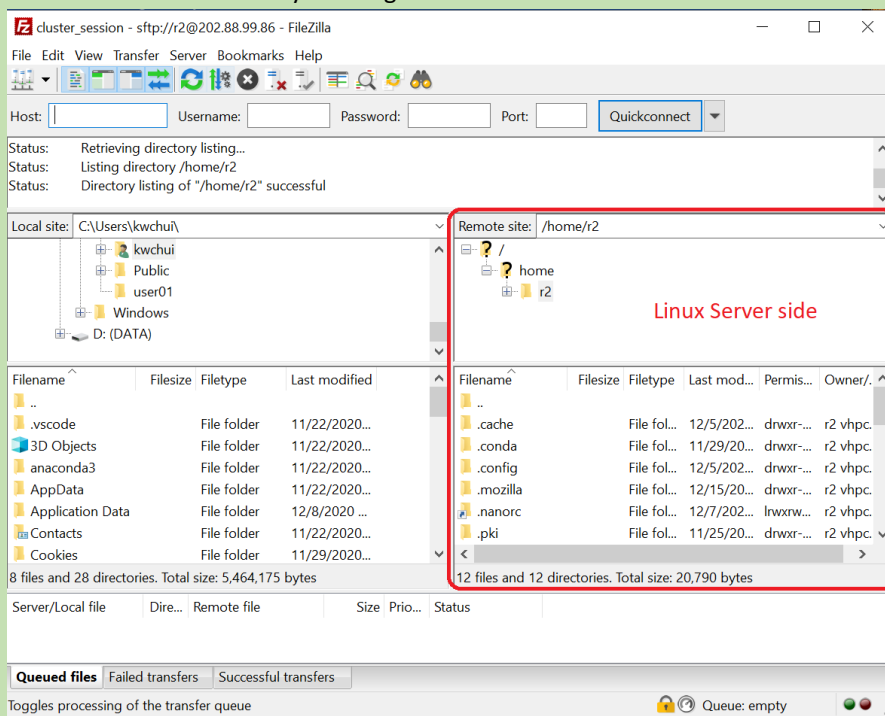

3. Give a name to the session. Then select "SFTP" in the Protocol pull down menu. Fill in the IP of the host and finally select "Key file" in the Logon Type pull down menu as shown:

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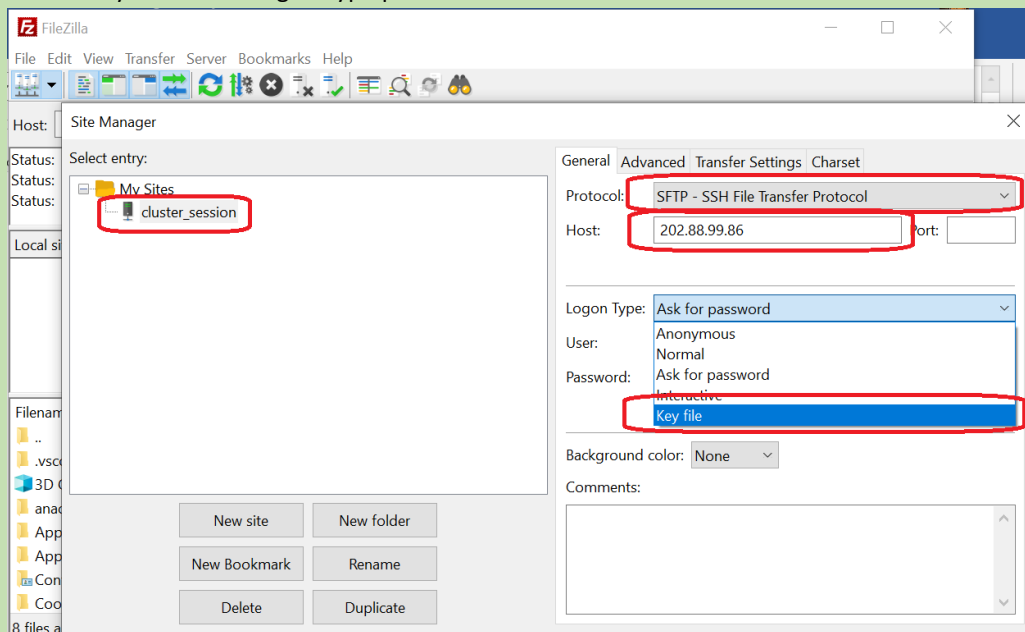
4. Browse and select your saved converted key file from Desktop. Fill in the username and finally click connect to login to the cluster.
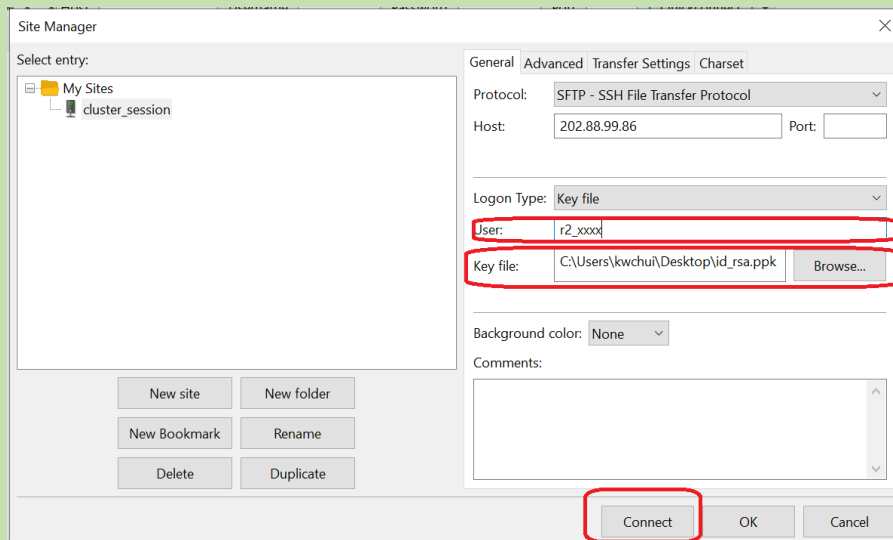
5. Click Yes about the security warning. Then the Linux server side will be shown in the right pane as shown:

THE END