

Connecting cluster for Windows

SSH tools for windows

● Putty

- ➔ Only ssh connection
- ➔ No file transfer, **bad support of key**

● MobaXterm

- ➔ Very easy
- ➔ Both connection and file transfer

● VSCode

- ➔ Based on openssh, connection, file transfer and text edition, **no graphical server**

● OpenSSH on Windows (since 2018)

- ➔ Linux like experience
- ➔ Configure for free if using VSCode

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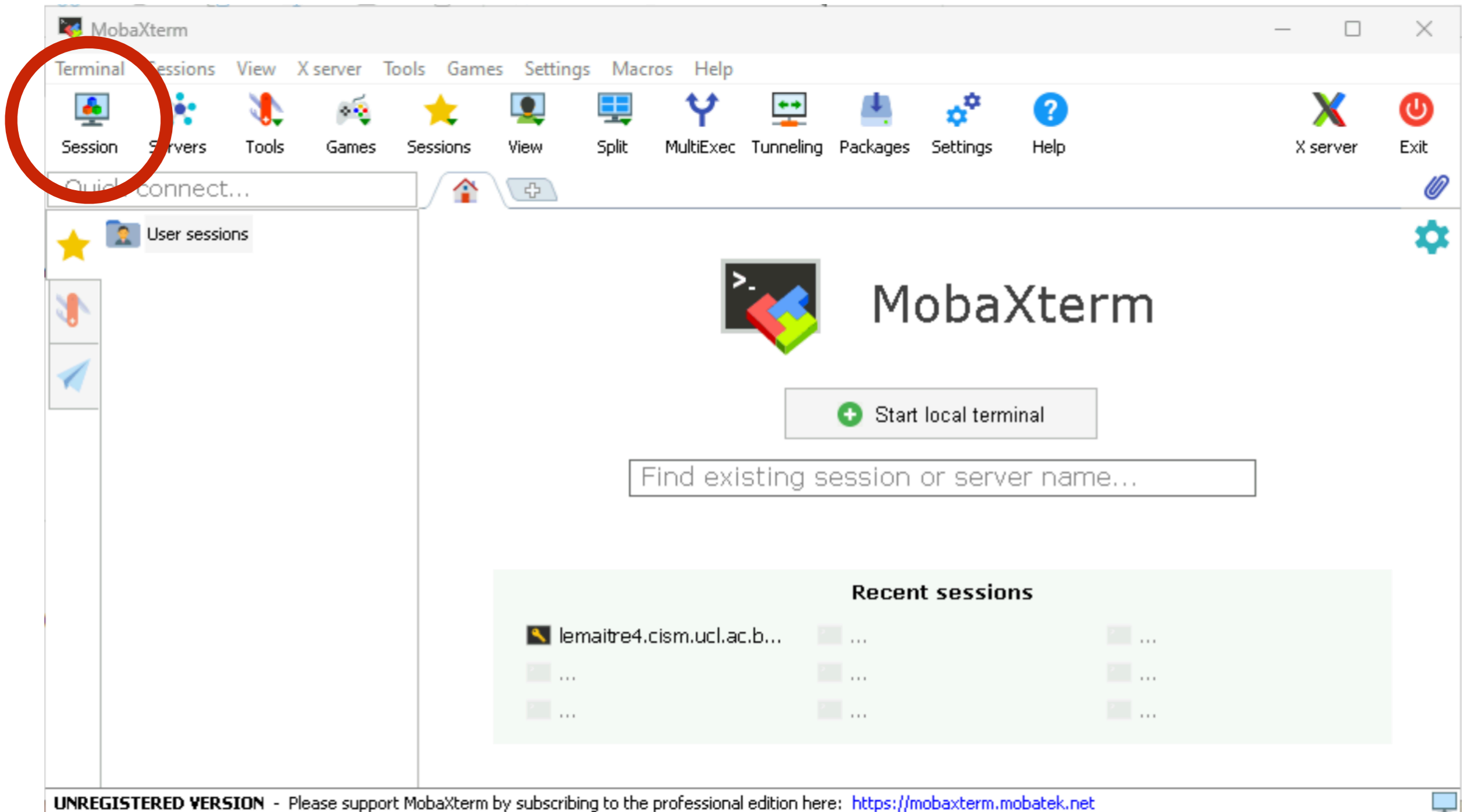
● OpenSSH on Windows (since 2018)

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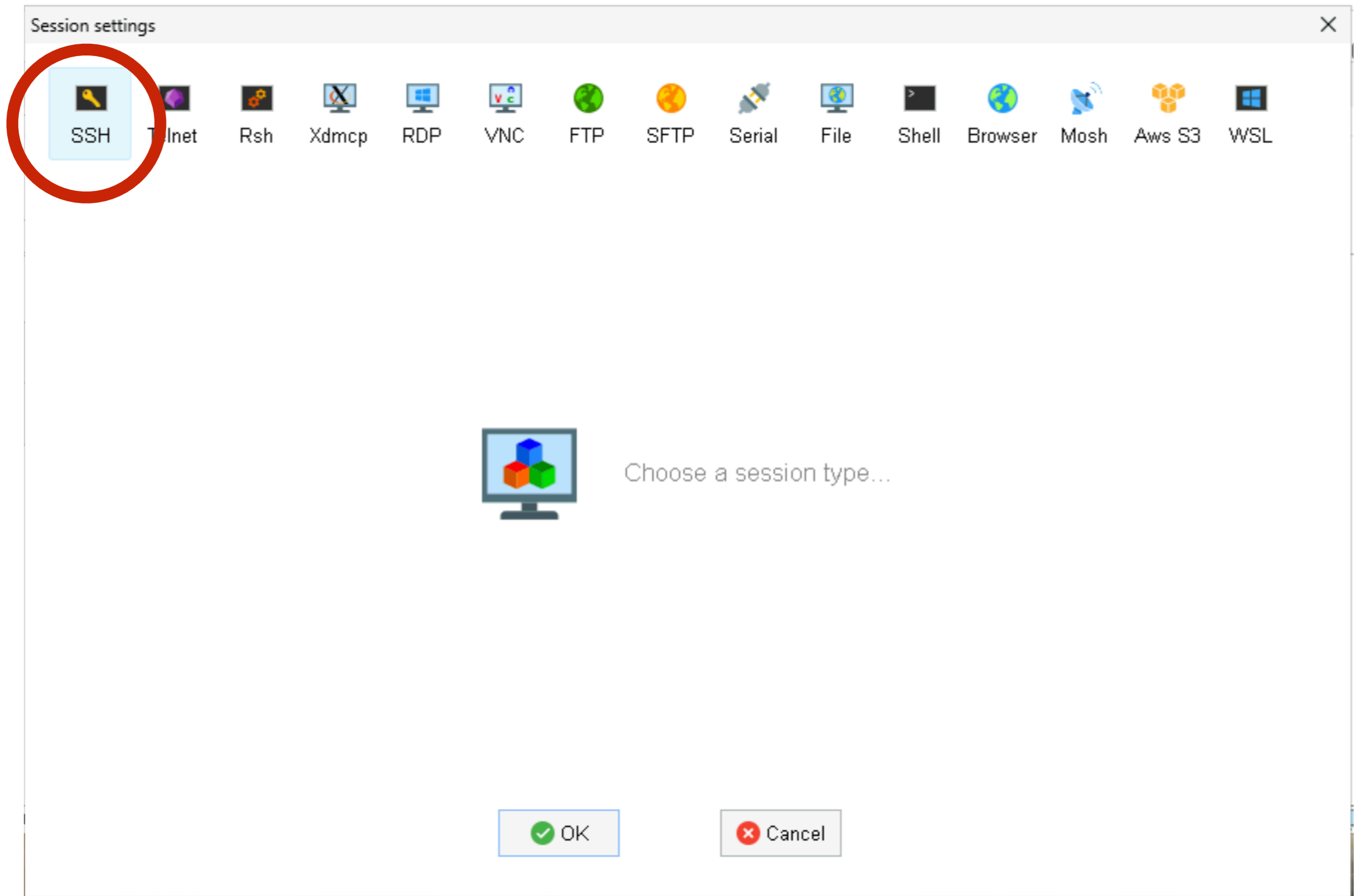
MobaXterm

- Live demo
- Demo also available on YouTube:
 - ➔ <https://youtu.be/o41r0mFaURU>
- Screen-shot available here

Click Here



Click Here




Fill the cluster name and the user name


Session settings

SSH Telnet Rsh Xdmcp RDP VNC FTP SFTP Serial File Shell Browser Mosh Aws S3 WSL

Basic SSH settings

Remote host * Specify username  Port 22

Advanced SSH settings Terminal settings Network settings Bookmark settings

Secure Shell (SSH) session 

OK Cancel

Click Here


Session settings

SSH Telnet Rsh Xdmcp RDP VNC FTP SFTP Serial File Shell Browser Mosh Aws S3 WSL

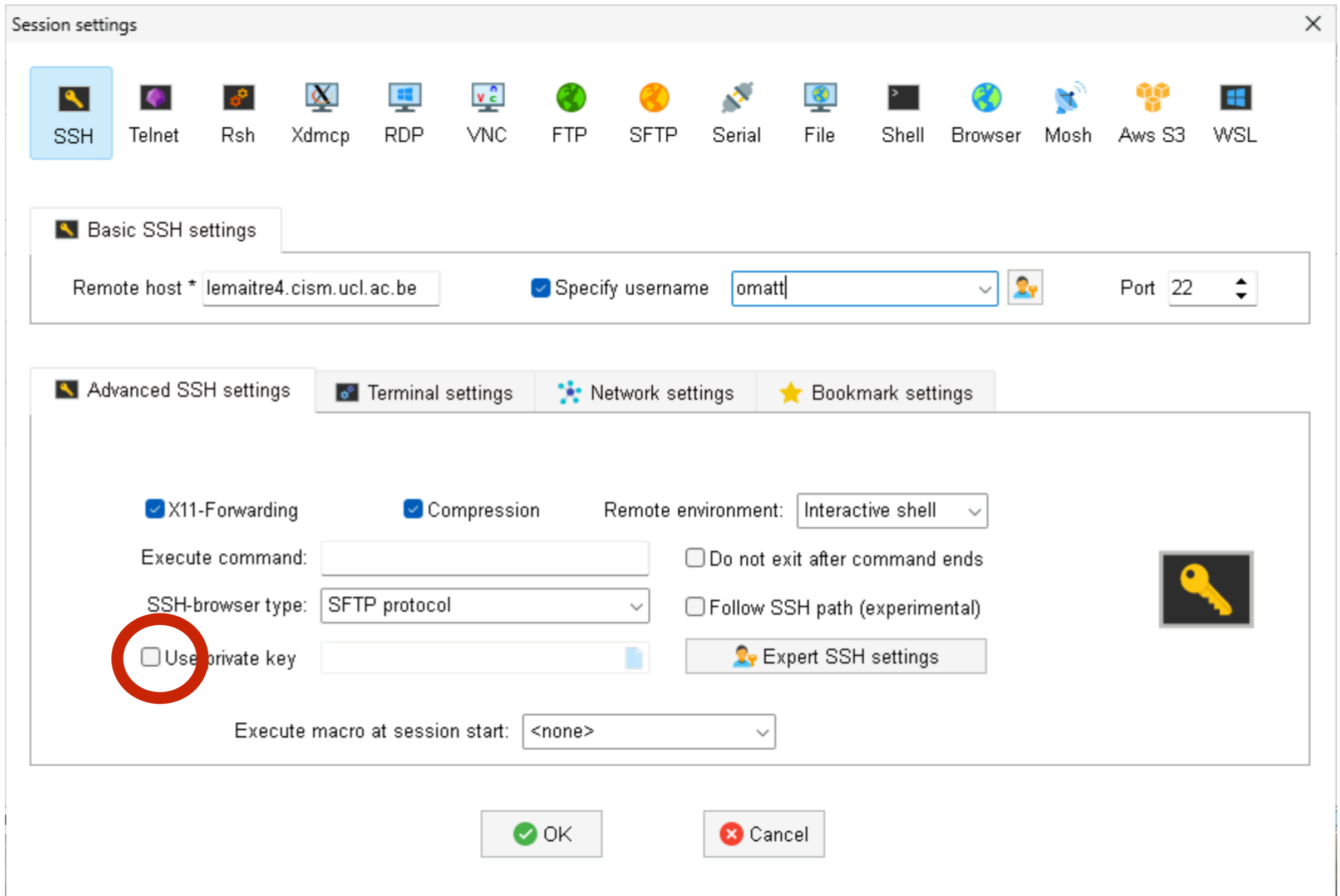
Basic SSH settings

Remote host * Specify username Port

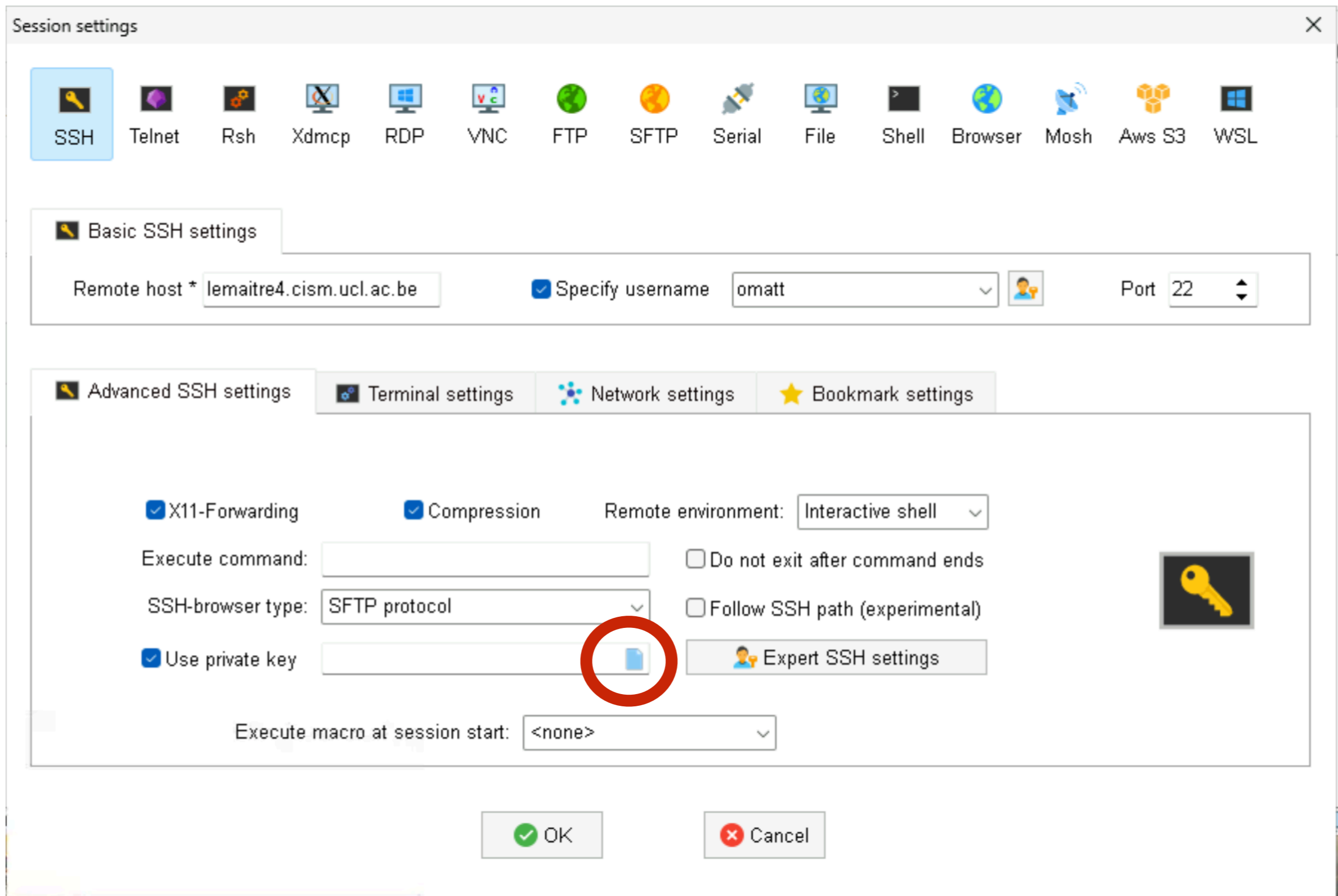
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Secure Shell (SSH) session 

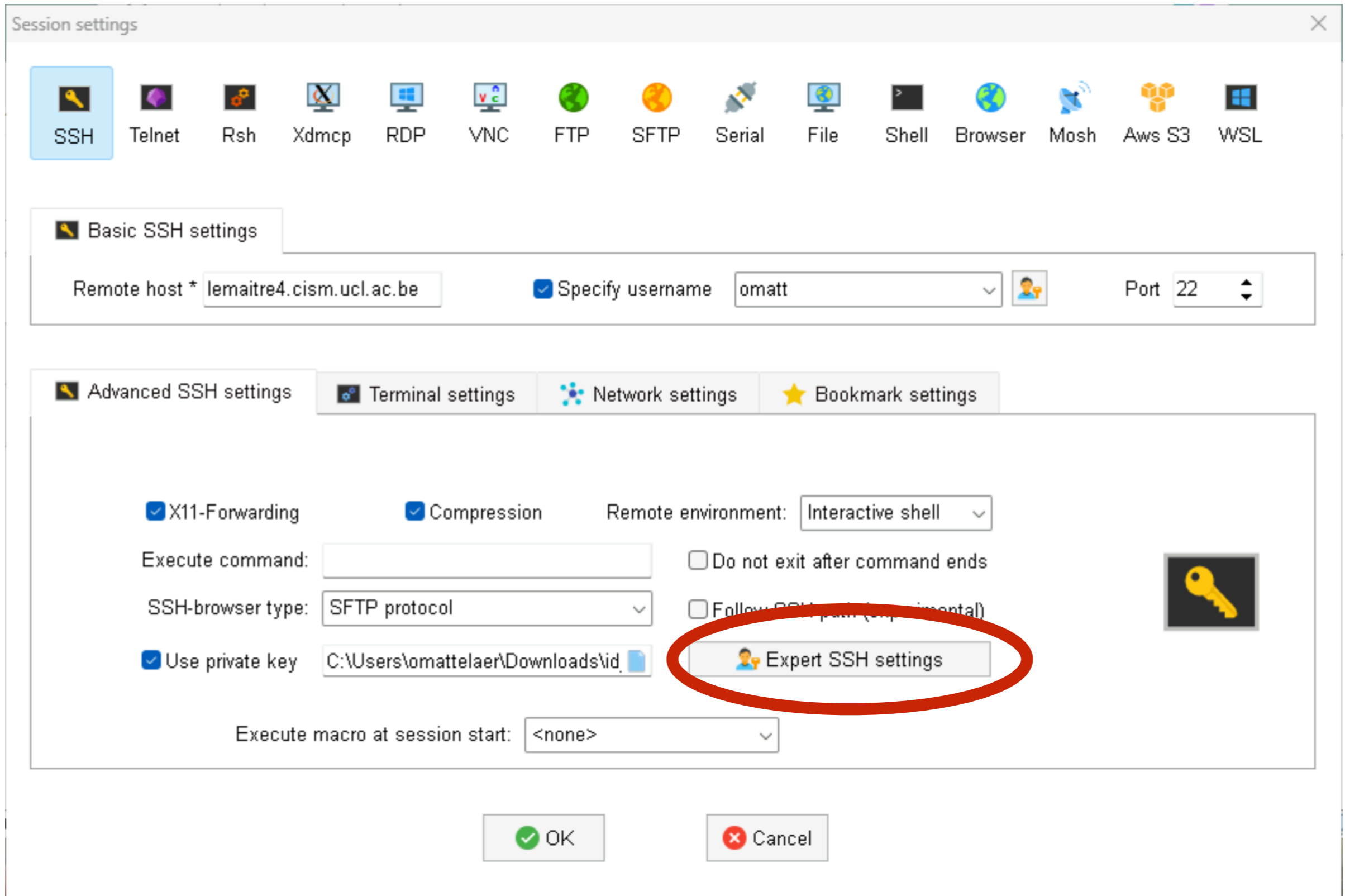
Click on "use private key"



Click on the blue icon and then select the private key on your system



Click Here



Click Here then click OK

Advanced SSH protocol settings

SSH protocol version: auto

Key Exchange algorithms


- NTRU-Curve25519
- ECDH
- dh-gex-sha1
- dh-group18-sha512
- dh-group17-sha512
- dh-group16-sha512

Host key types

- Ed448
- Ed25519
- ECDSA
- RSA
- DSA
- =Warn below=

Ciphers

- AES
- ChaCha20
- AESGCM
- 3DES
- =Warn below=
- DES

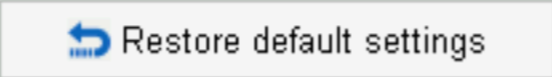
 Disconnect if authentication succeeds trivially


Prefer hostkey algorithms for which a hostkey is already known

Attempt authentication using the SSH agent

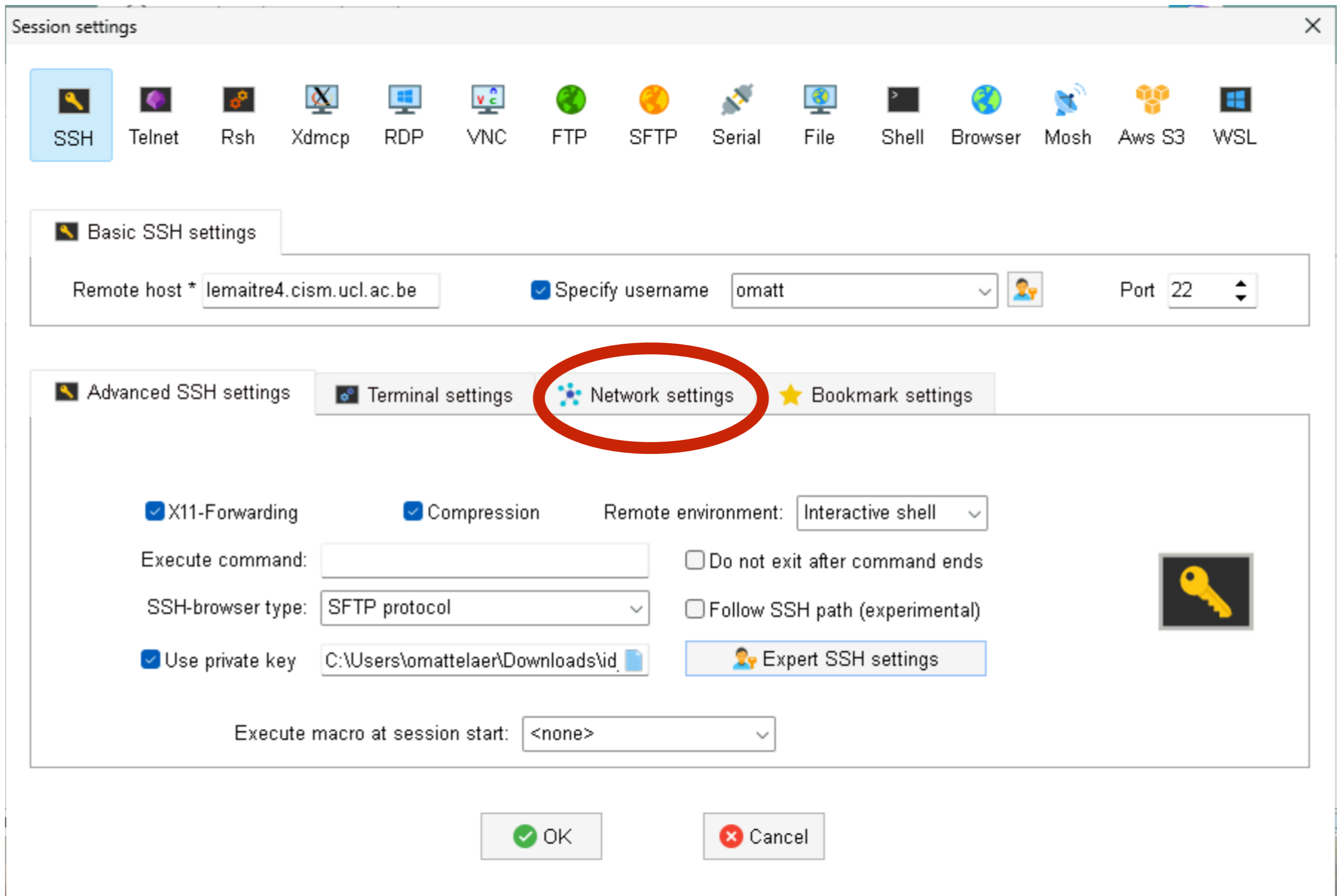
1. Allow agent forwarding

Adapt locales on remote server



2. 

Click Here



Click Here

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SSH gateway (jump host)

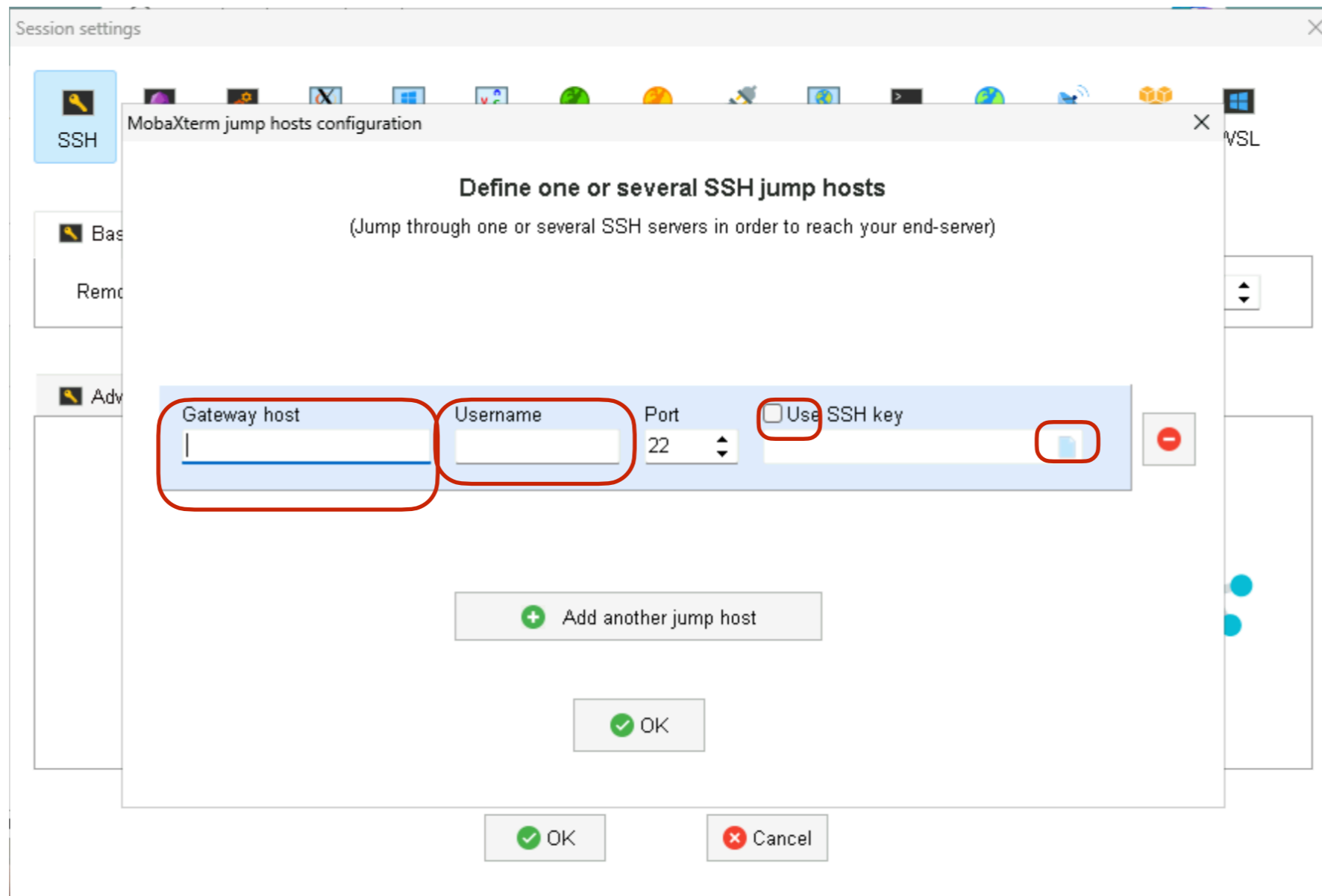
Proxy settings (experimental)

Proxy type: Host: Login: Port:

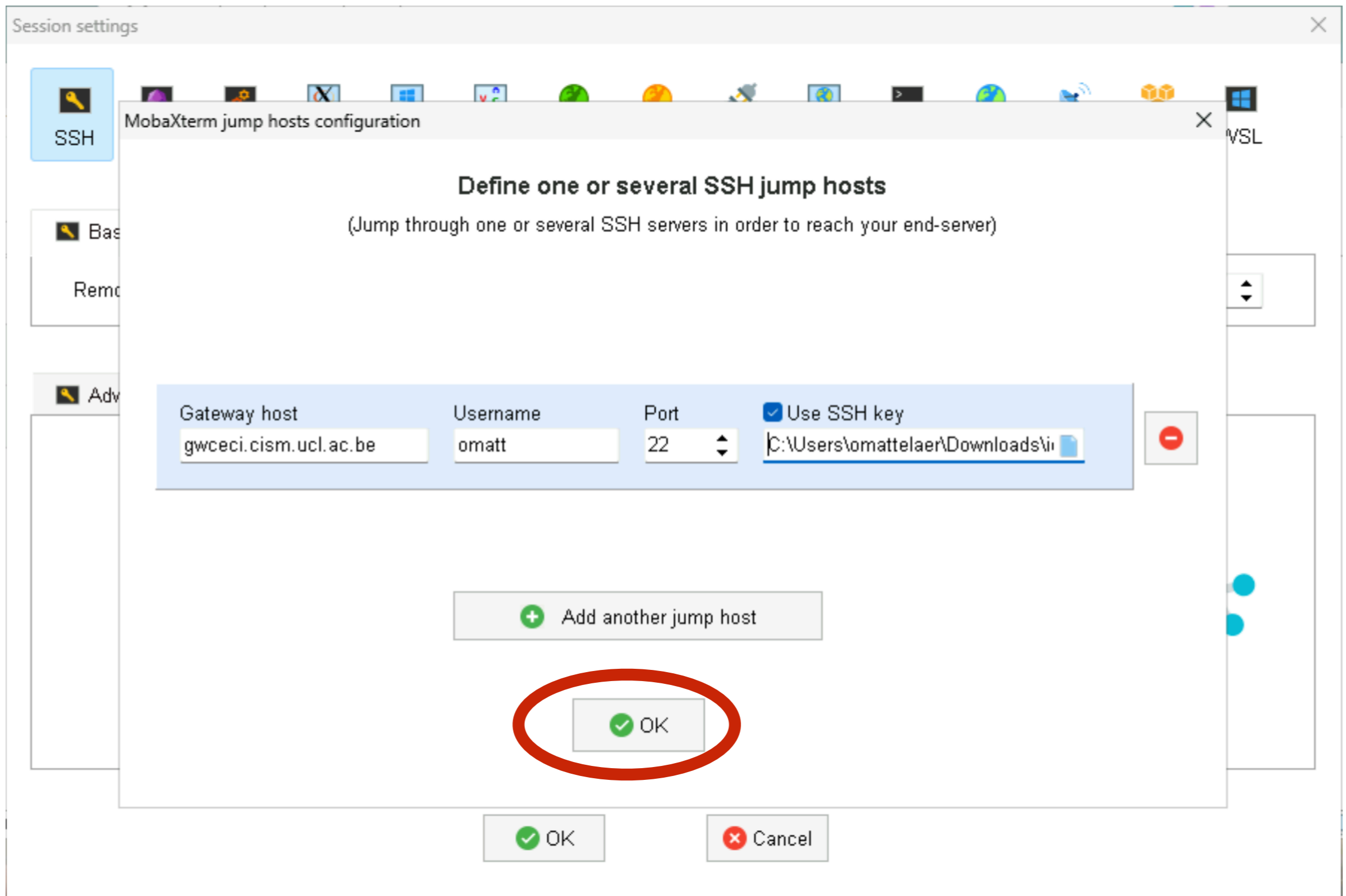
Fill the information
Gateway address depend
Of YOUR university
(Same private key)

- gwceci.cism.ucl.ac.be
- gwceci.ulb.ac.be
- gwceci.uliege.be

- gwceci.unamur.be
(unamur id)
- dragon2.umons.ac.be



Click Here



Click Here

Session settings

SSH Telnet Rsh Xdmcp RDP VNC FTP SFTP Serial File Shell Browser Mosh Aws S3 WSL

Basic SSH settings

Remote host * lemaitre4.cism.ucl.ac.be Specify username omatt Port 22

Advanced SSH settings Terminal settings Network settings Bookmark settings

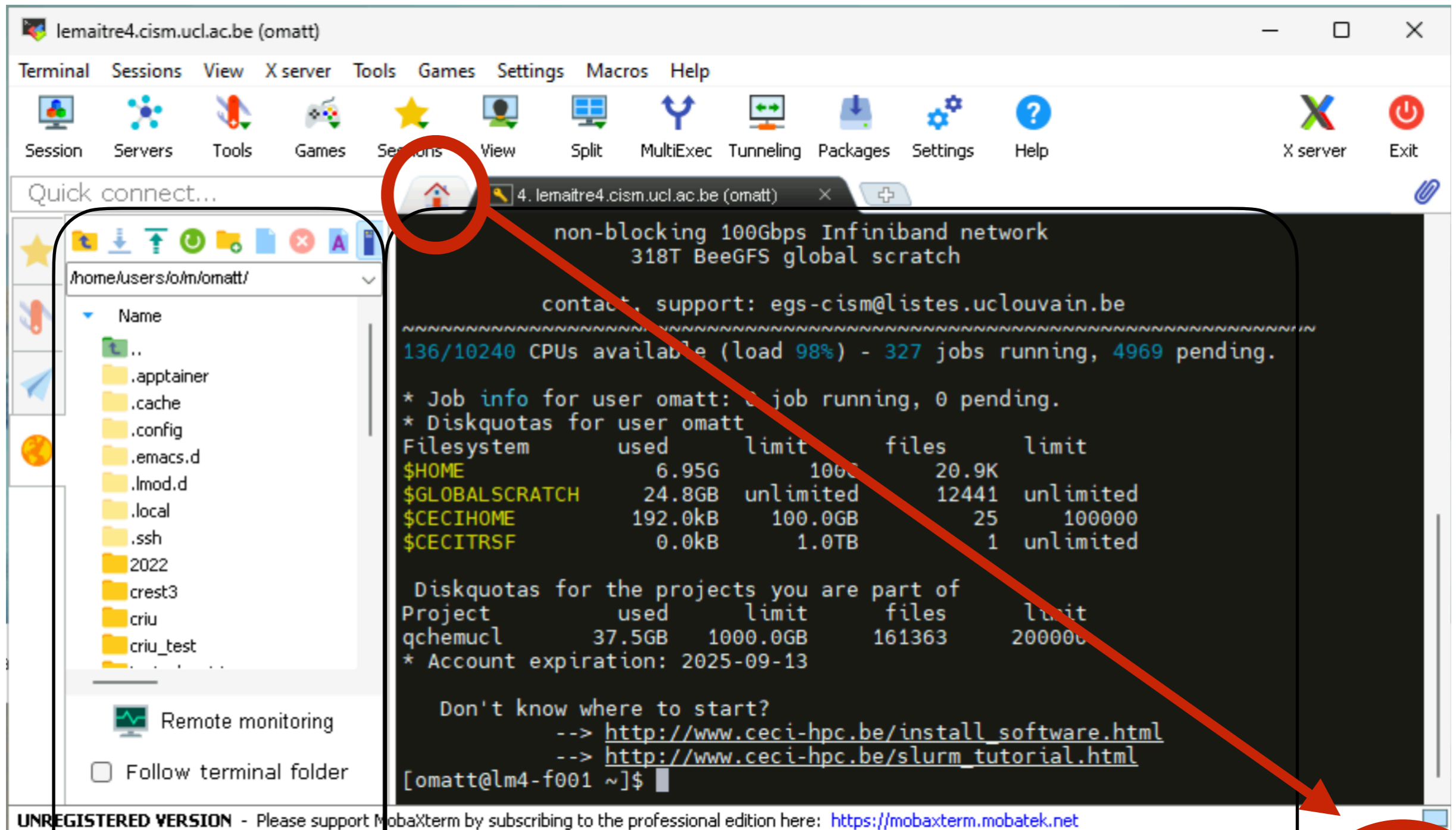
SSH gateway (jump host)

Proxy settings (experimental)

Proxy type: None Host: Login: Port: 1080

OK Cancel

You are connected !!!

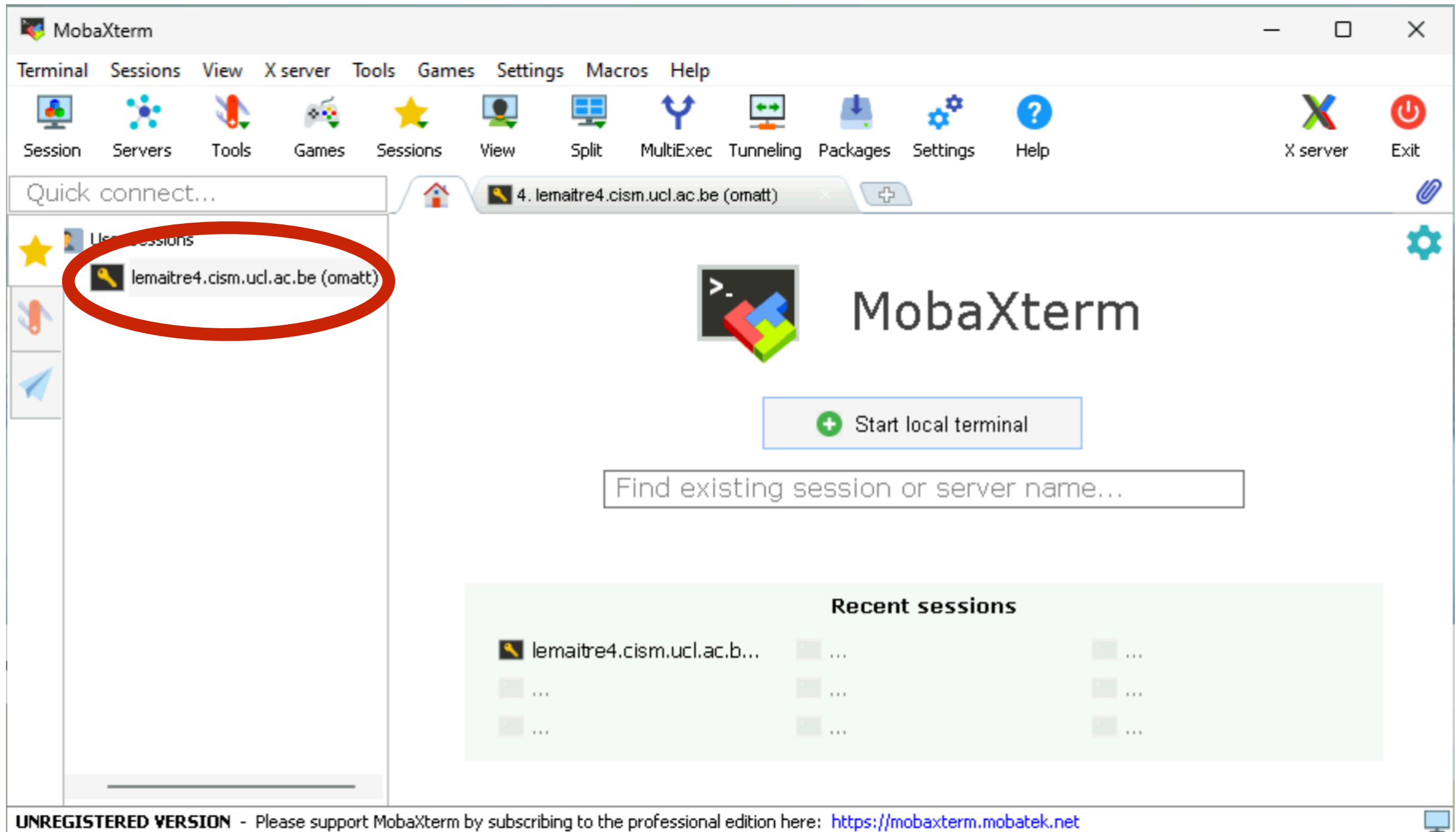


Drag and drop
file from/to the
cluster

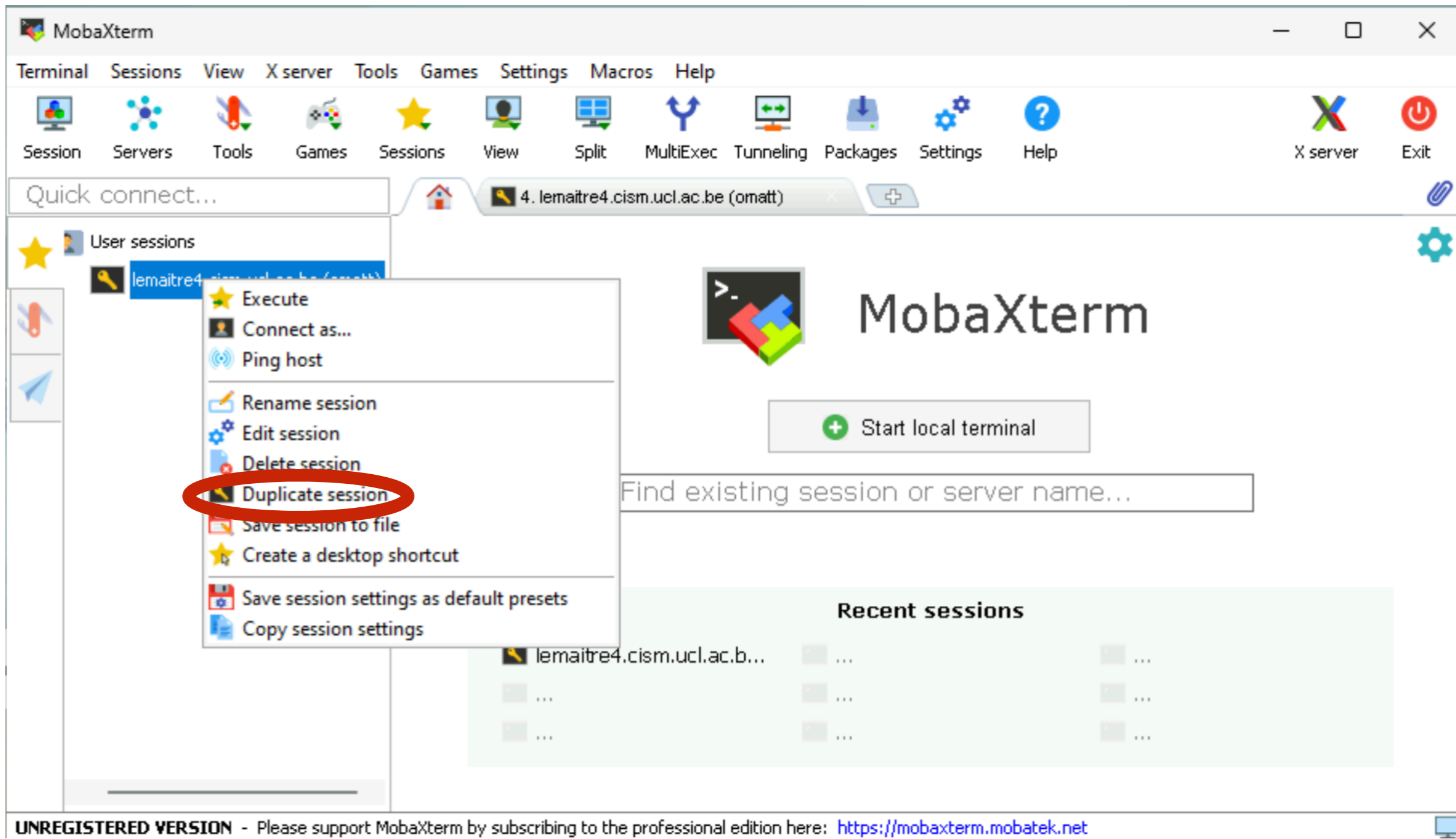
Unix terminal
running on the
cluster

New
connection
(See next
slide)

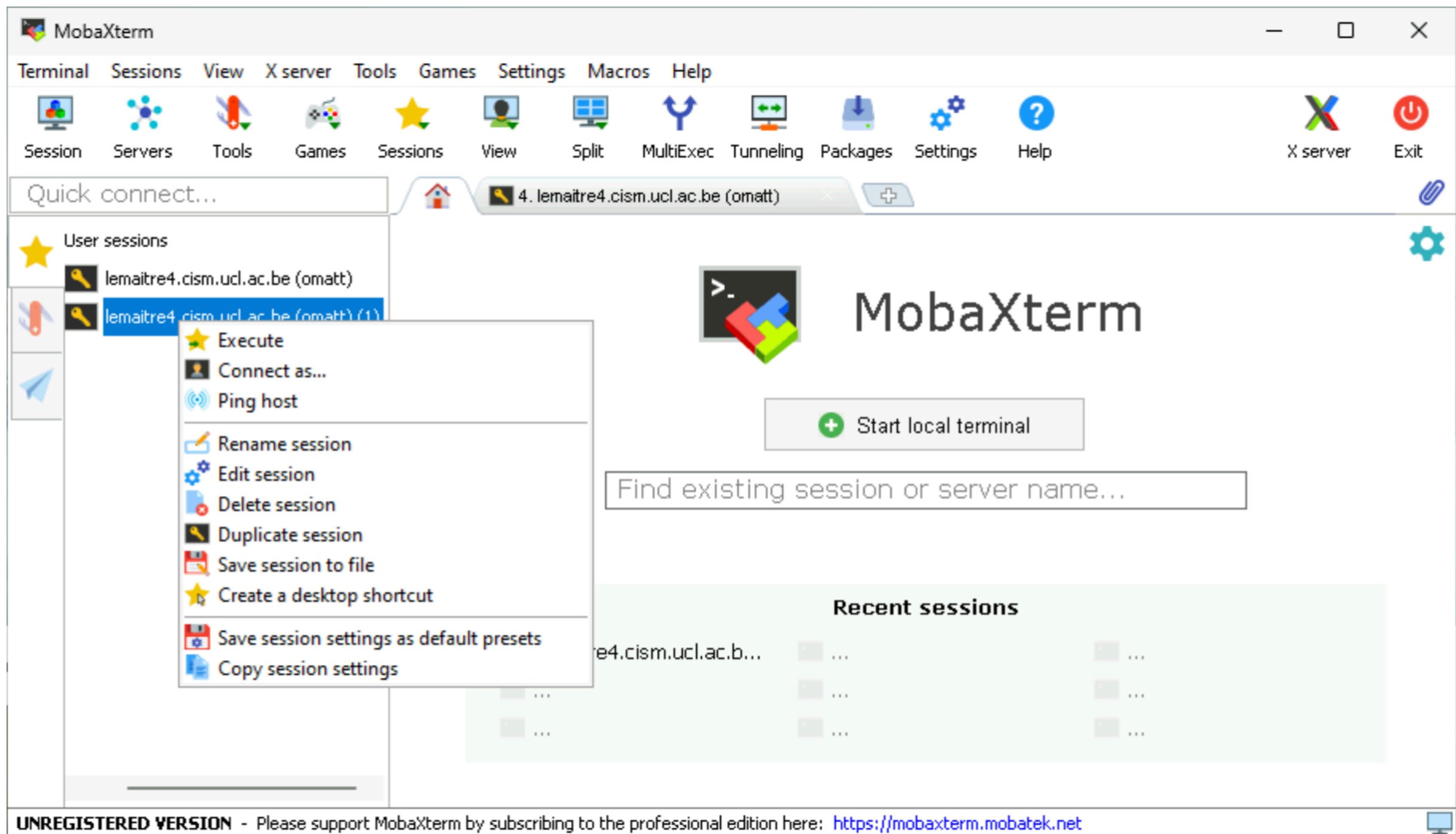
Click Here to start a second terminal on the same cluster



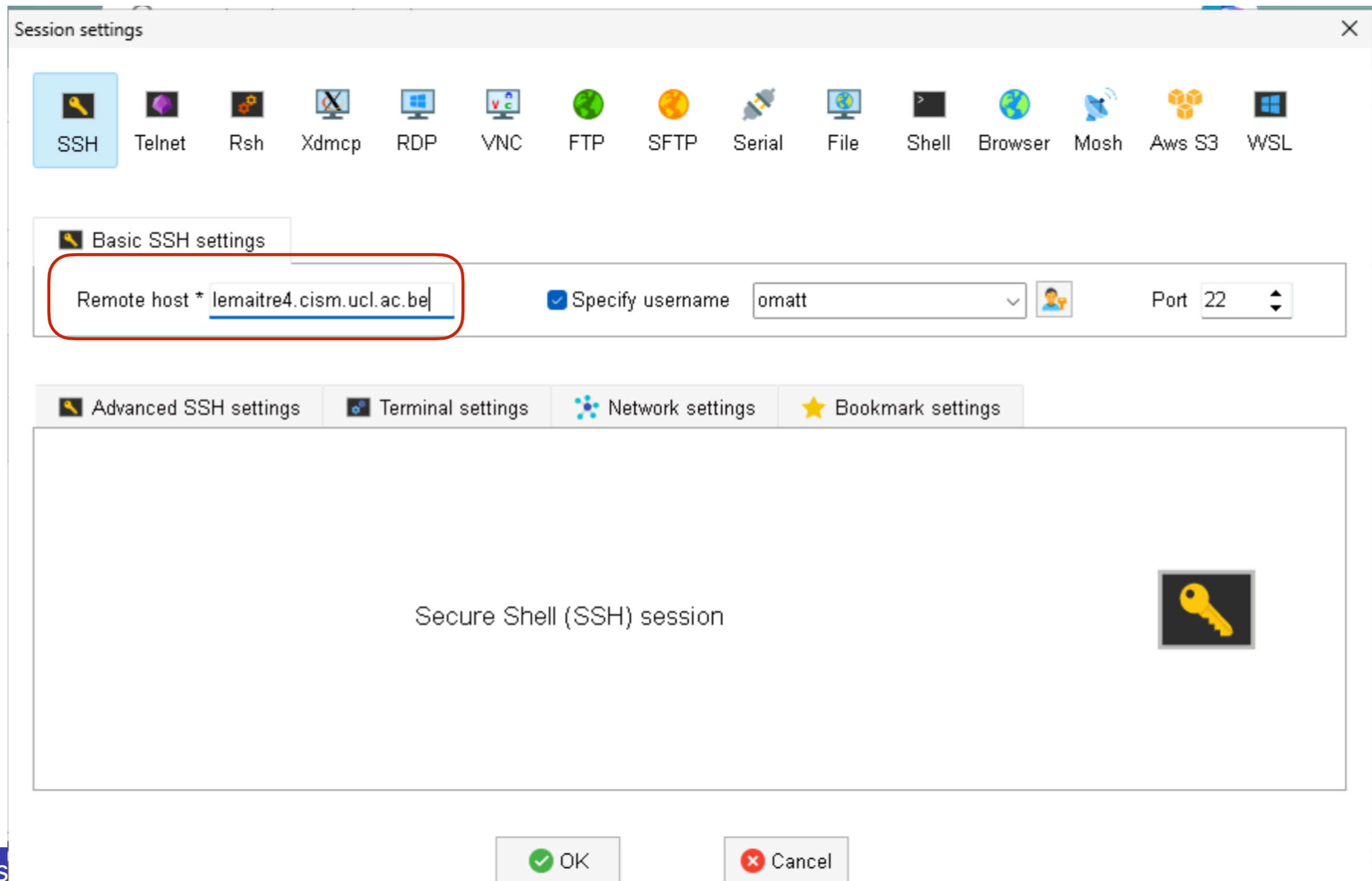
Or right click on it and duplicate it to copy the configuration for another cluster



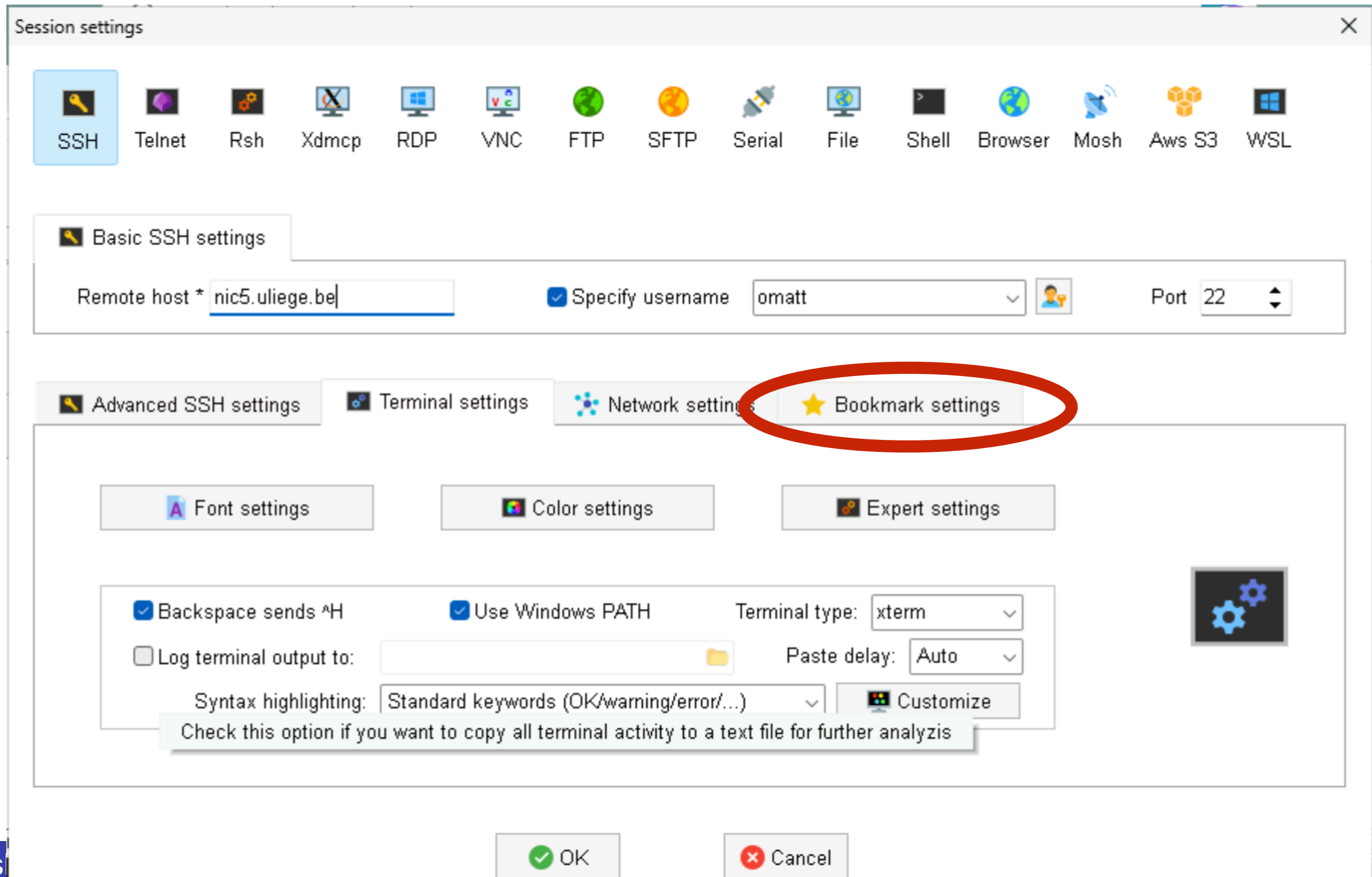
Right click on the duplicate and choose edit session:



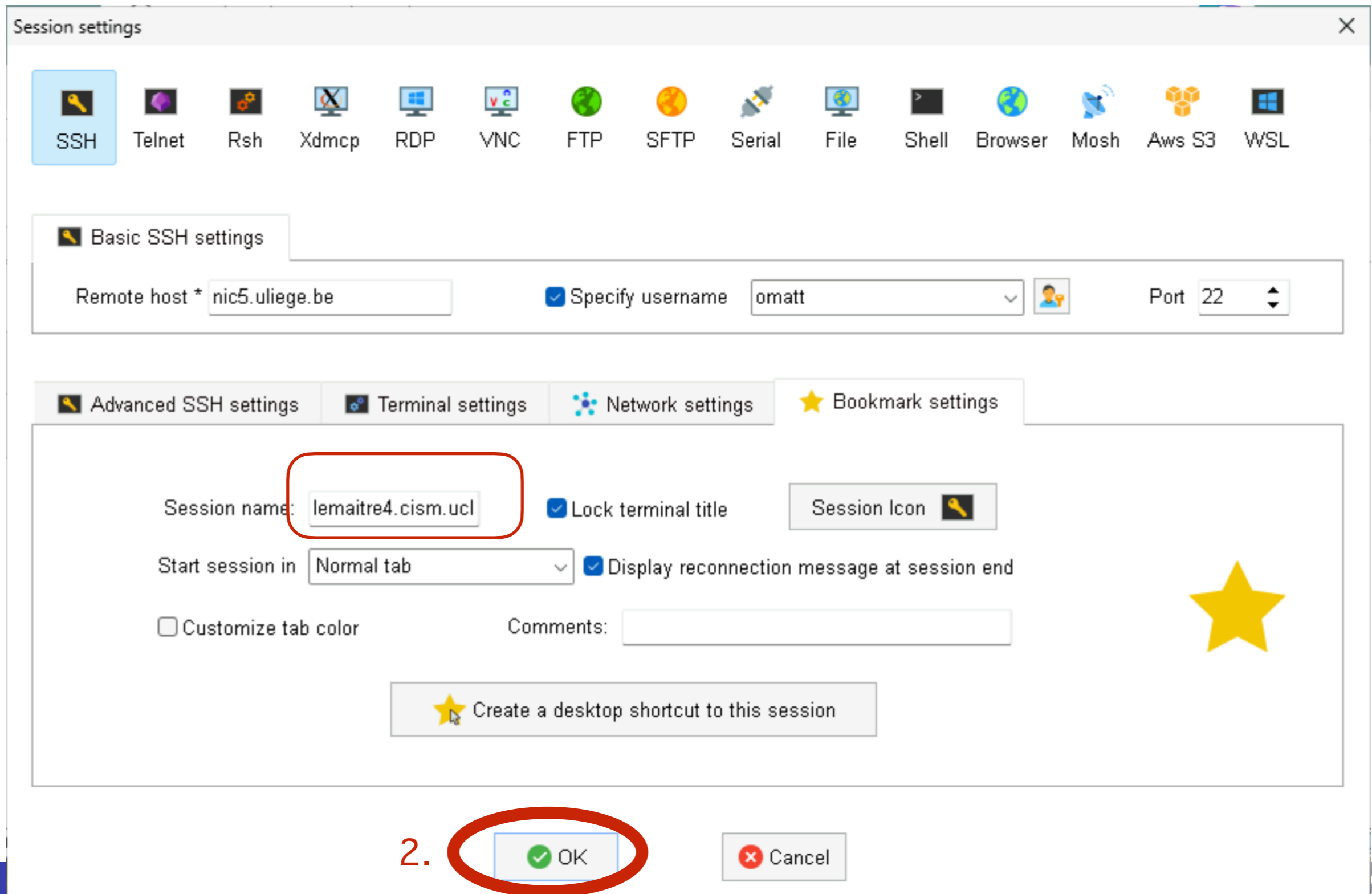
Change the address of the cluster



Click Here



Change the name of the cluster (this will be the name displayed on the left column)
Then click OK



Now you can start a session on the second cluster by double clicking on it!

