

Connection to the cluster

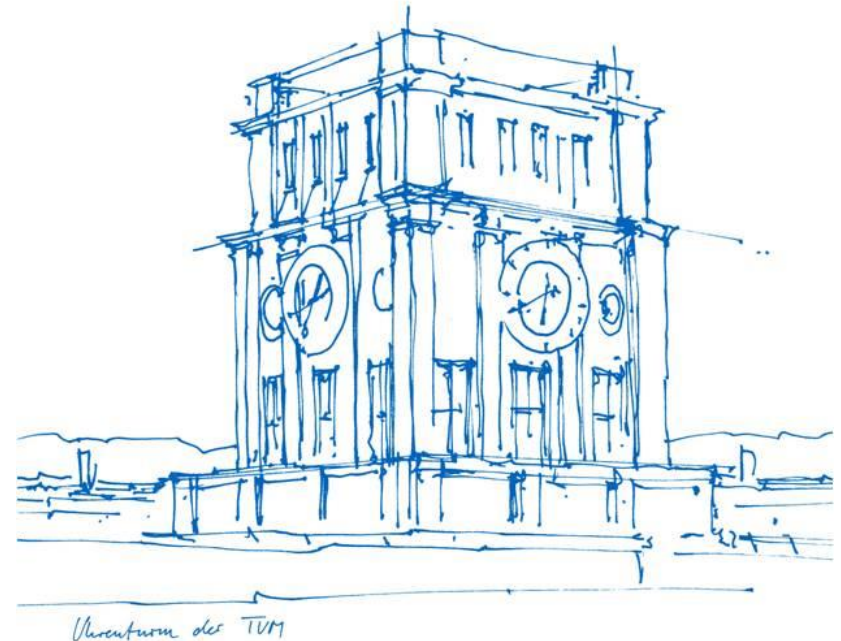
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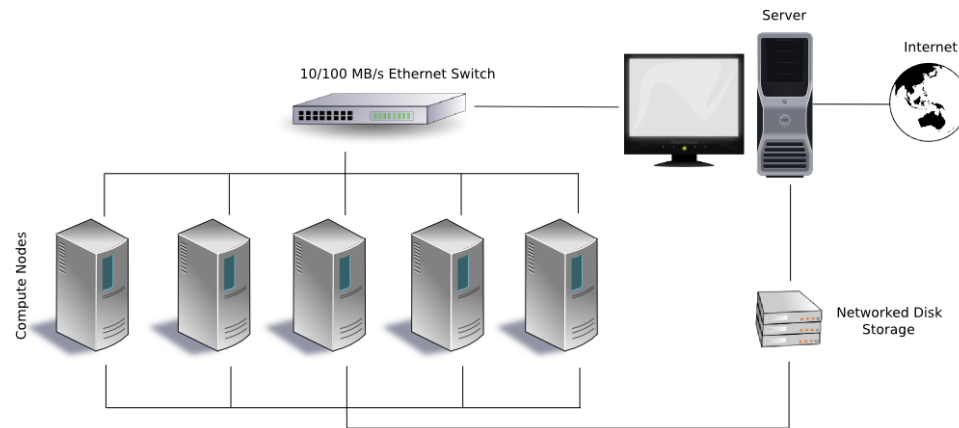
1 de Agosto de 2022



Computer cluster

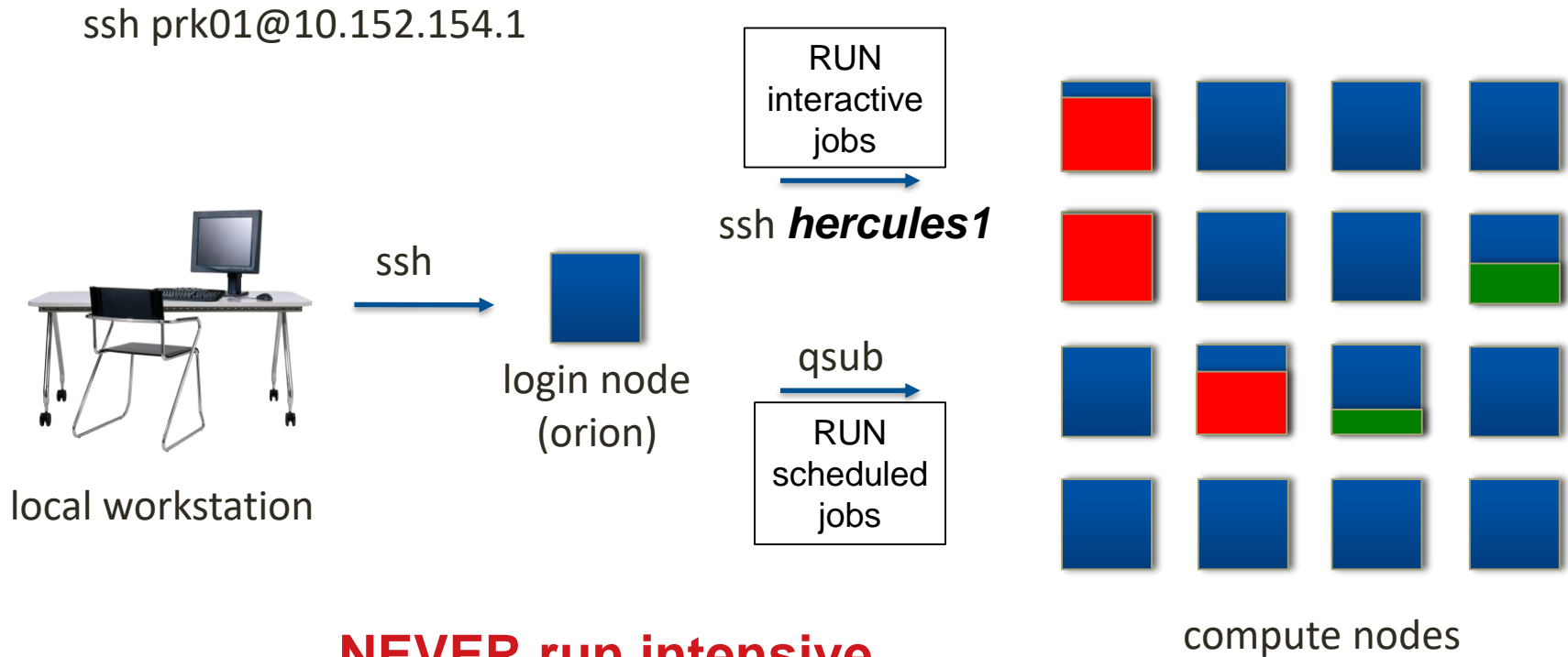
Set connected computers that work together so that, can be viewed as a single system

Computer clusters have each node set to perform different tasks, controlled and scheduled by software



https://en.wikipedia.org/wiki/Computer_cluster

ssh connection to the cluster



NEVER run intensive jobs in the orion node

Secure connection to the cluster

pacho.galan
Username

168.176.8.19
IP address login node

Password:

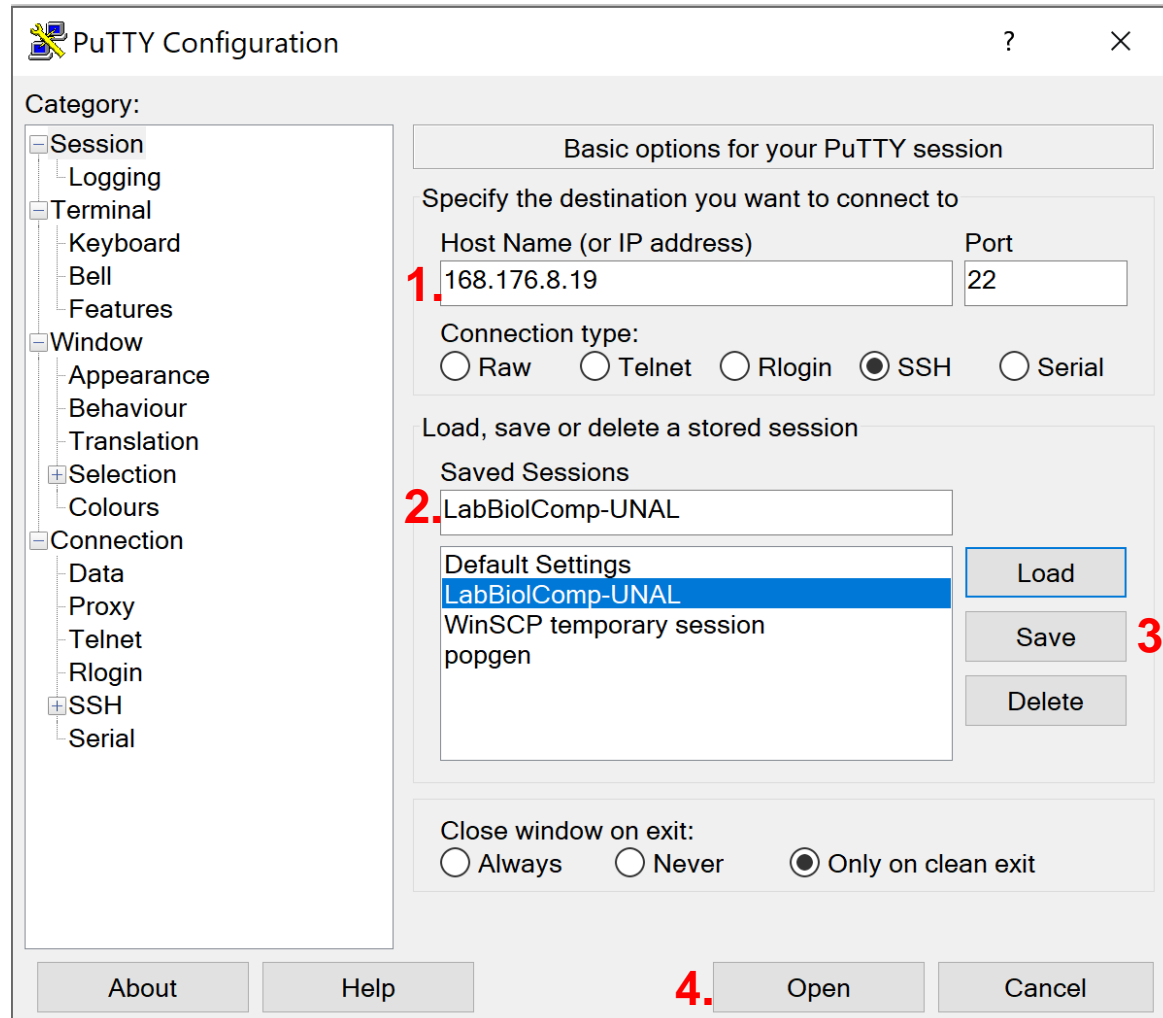
Secure connection to the cluster (**Windows**)

Download and install in your computer PuTTY

<https://www.putty.org/>



Secure connection to the cluster (Windows)



PuTTY Configuration

Category:

- Session
- Logging
- Terminal
- Keyboard
- Bell
- Features
- Window
 - Appearance
 - Behaviour
 - Translation
 - Selection
 - Colours
- Connection
 - Data
 - Proxy
 - Telnet
 - Rlogin
 - SSH
 - Serial

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address): **1. 168.176.8.19** Port: 22

Connection type:

☐ Raw ☐ Telnet ☐ Rlogin ☒ SSH ☐ Serial

Load, save or delete a stored session

Saved Sessions

2. LabBiolComp-UNAL

Default Settings
LabBiolComp-UNAL
WinSCP temporary session
popgen

3. Load Save Delete

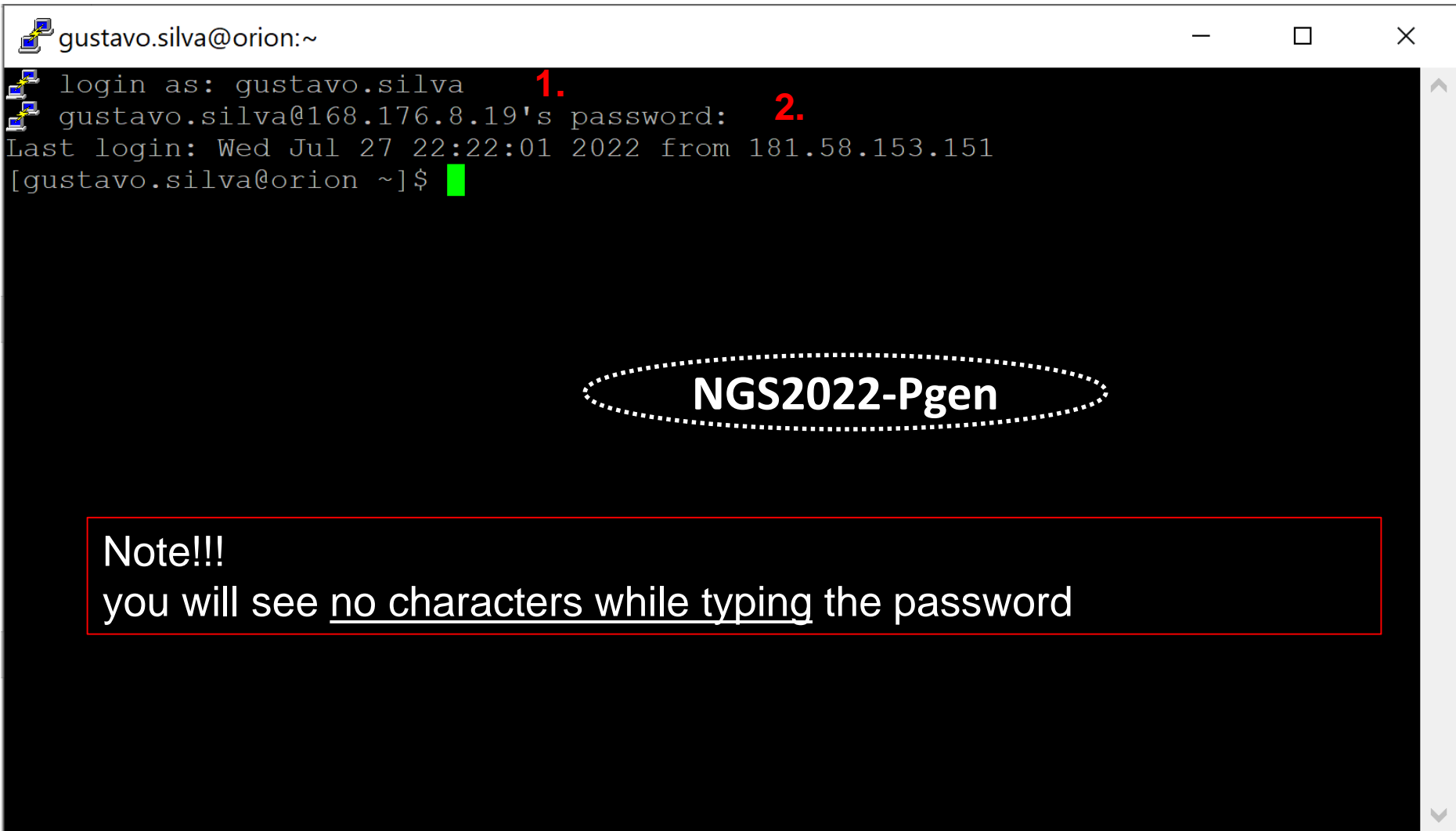
Close window on exit:

☐ Always ☐ Never ☒ Only on clean exit

4. Open Cancel

168.176.8.19

Secure connection to the cluster (Windows)



```
gustavo.silva@orion:~  
login as: gustavo.silva 1.  
gustavo.silva@168.176.8.19's password: 2.  
Last login: Wed Jul 27 22:22:01 2022 from 181.58.153.151  
[gustavo.silva@orion ~]$
```

NGS2022-Pgen

Note!!!
you will see no characters while typing the password

Transfer files from/into the cluster (**Windows**)

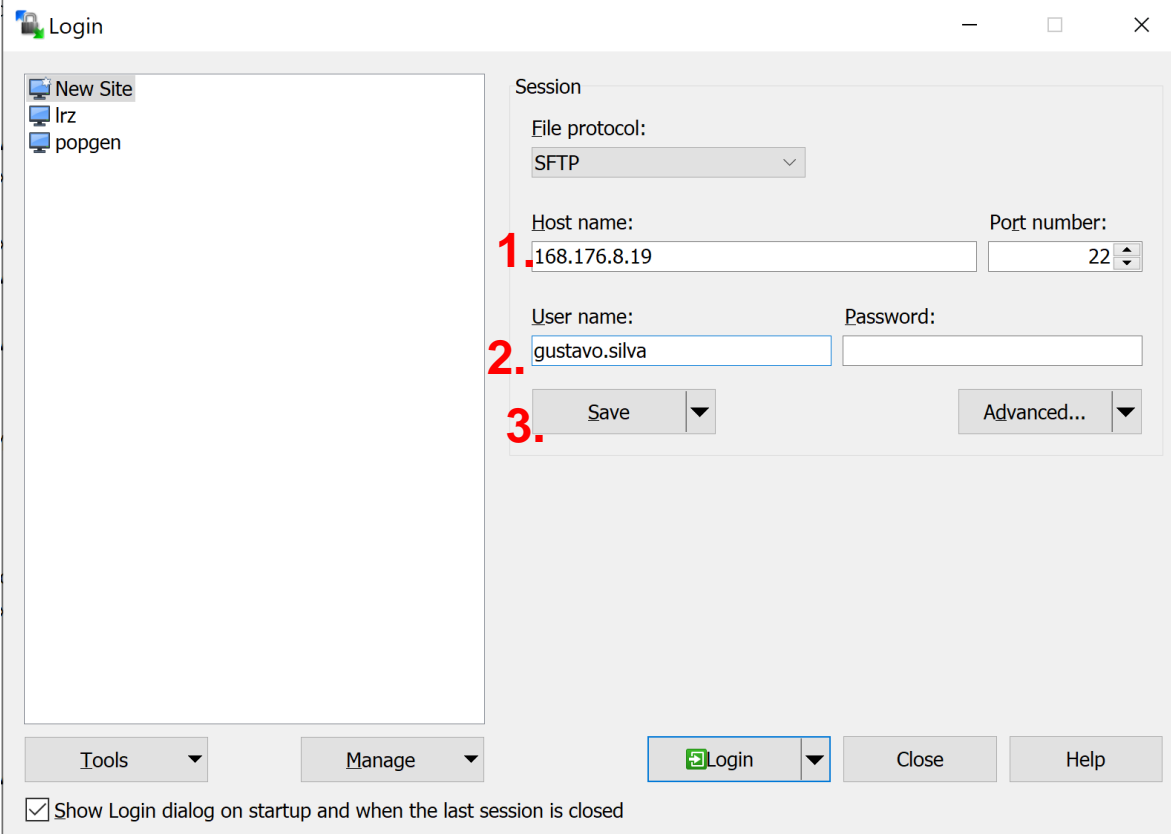
Download and install in your computer WinSCP

<https://winscp.net/eng/download.php>



Transfer files from/into the cluster (Windows)

WinSCP



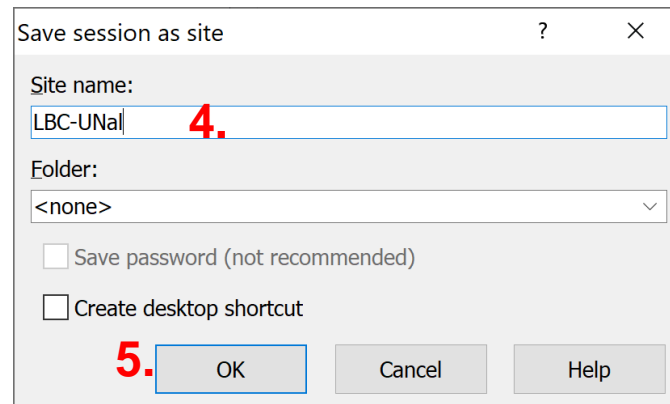
The image shows the WinSCP Login dialog box. On the left, there is a list of sites: 'New Site', 'lrz', and 'popgen'. On the right, the 'Session' configuration area contains the following fields and controls:

- File protocol:** A dropdown menu set to 'SFTP'.
- Host name:** A text box containing '168.176.8.19', preceded by a red number '1'.
- Port number:** A spinner box set to '22'.
- User name:** A text box containing 'gustavo.silva', preceded by a red number '2'.
- Password:** An empty text box.
- Save:** A button with a dropdown arrow, preceded by a red number '3'.
- Advanced...:** A button with a dropdown arrow.

At the bottom of the dialog, there are two dropdown menus labeled 'Tools' and 'Manage', a 'Login' button with a green icon and a dropdown arrow, and 'Close' and 'Help' buttons. A checkbox at the bottom left is checked and labeled 'Show Login dialog on startup and when the last session is closed'.

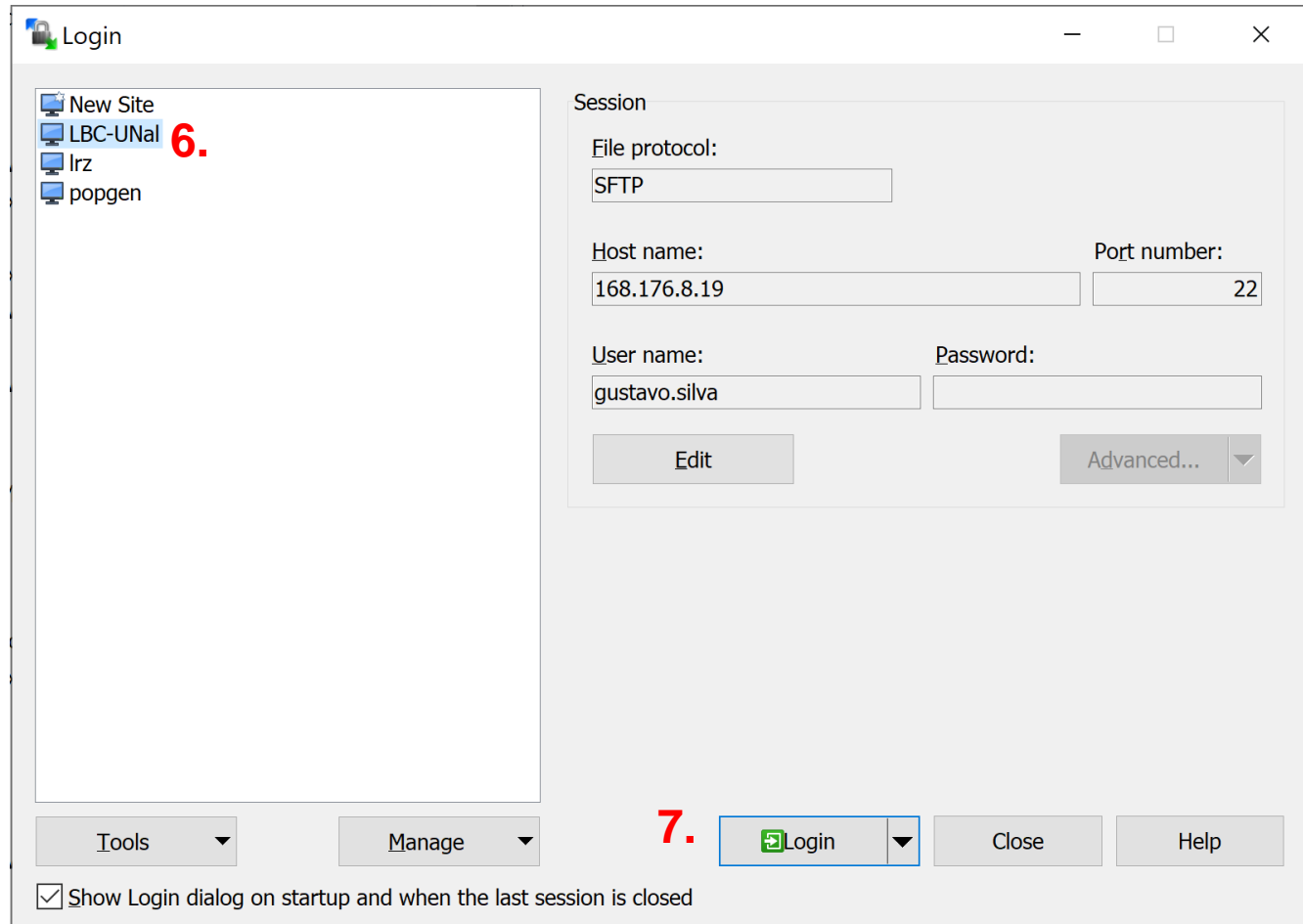
Transfer files from/into the cluster (Windows)

WinSCP

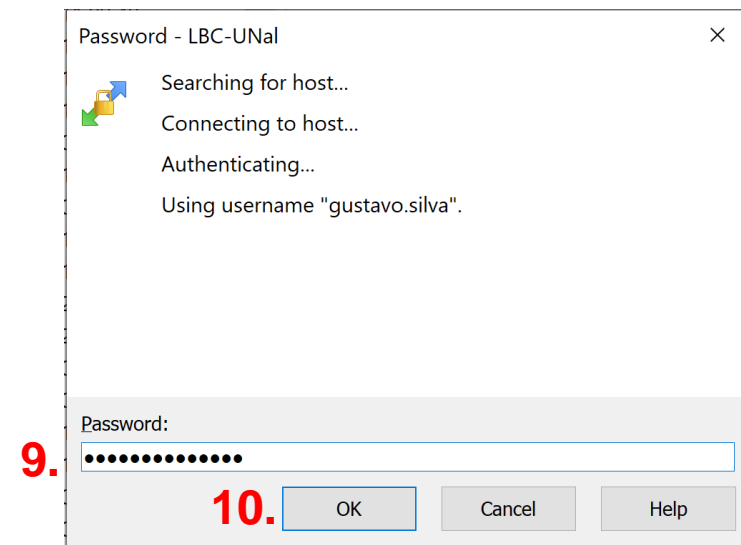
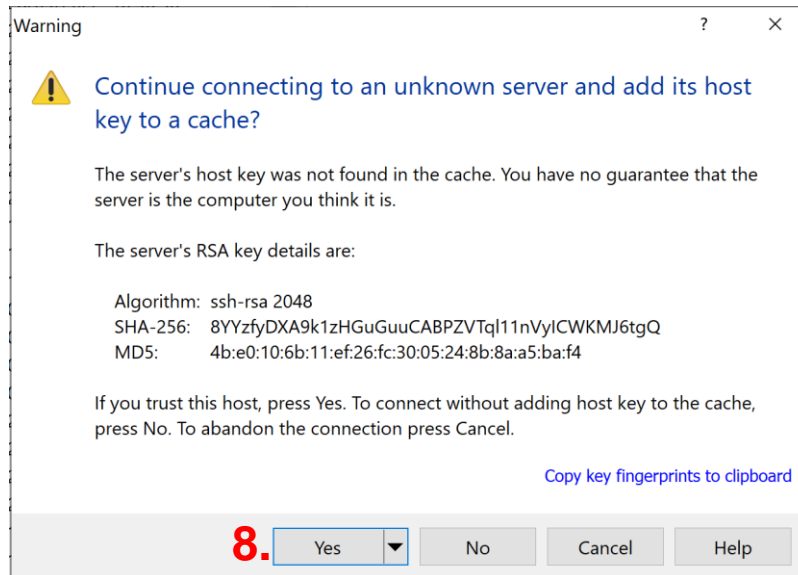


Transfer files from/into the cluster (Windows)

WinSCP



Transfer files from/into the cluster (Windows)



Transfer files from/into the cluster (Windows)

The screenshot displays the WinSCP interface with two panels: a local panel on the left and a remote panel on the right.

Local panel (your PC): Shows the file system of the local machine at `C:\Users\Gustavo\Desktop\`. It lists various files and folders, including `taller-LaPaz`, `avales`, `simcity`, and several PDF and Excel documents.

Remote panel (cluster): Shows the file system of the remote cluster at `/homes/orionsan/gustavo.silva/`. It lists files and folders, including `software`, `Centos7.anaconda3`, `Centos7.anaconda2`, and several `anaconda2.sif` and `anaconda3.sif` files.

The interface includes a menu bar (Local, Mark, Files, Commands, Session, Options, Remote, Help), a toolbar with icons for Synchronize, Queue, Transfer Settings, and other functions, and a status bar at the bottom showing file transfer statistics.

Local panel (your PC)

Remote panel (cluster)

