How to login in TeideHPC?

In order to have redundancy and high availability for access to the infrastructure, TeideHPC has 2 access nodes, called **Login nodes** and they share all your data. That is to say, regardless of which one you connect to, your data will be accessible.

To ensure that the number of users is not concentrated in a single login node, which eventually ends up saturated due to access preferences and unintentional user executions, a *load balancer* has been set up, which is responsible for distributing to the users equally in both login nodes, having a single DNS and access IP, easier to remember.

DNS	IP Address	
login.hpc.iter.es	10.5.22.100	

However, once you access, it is possible to go from one node to another without any type of restriction:

ssh login1 or ssh login2

Linux & macOS user access

Using a terminal:

```
ssh myuser@IPaddress or
ssh myuser@login1.hpc.iter.es
```

Remember you can add our DNS folloging these instructions.

SSH Alias

In order to make it easier to work and not remember the server's IP, we can use an alias to save the SSH connection. To do this, edit the file \sim /.ssh/config and add the following (if it does not exist, create it):

Host teidelogin Hostname 10.5.22.100 User myuser

Now to connect via SSH to the login nodes we can do it in the following way:

ssh teidelogin1

Windows user access

Windows users have several alternatives to connect via SSH to the login nodes: *PuTTY* and *MobaXterm*:

SSH remote access with PuTTy

PuTTy is a network client that supports the SSH, Telnet and Rlogin protocols and is mainly used to initiate remote session with another machine or server. It is free licensed, simple and highly functional and configurable.

Once downloaded it's necessary to follow next steps in order to open a session in TeideHPC supercomputer.

💦 PuTTY Configurat	ion	(
Category:				
 Session 	Basic options for your PuTTY session			
Logging	Specify the destination you want to connect to			
	Host Name (or IP address)	Port		
Rell		22		
Features	Connection type:			
 Window 	◯ Raw ◯ Telnet ◯ Rlogin ④	SSH 🔘 Serial		
Behaviour Translation Selection Colours Connection Proxy Telnet Rlogin DessH	Saved Sessions Default Settings	Load		
		Delete		
Serial	Close window on exit: Always Never ③ Only on clean exit			
About	Open	Cancel		

- 1. In the category menu select Session.
- 2. Set the domainname or IP address in the field Host Name and select SSH as the connection type.
- 3. Choose a name for the connection and fill the field Saved Sessions. (Eg TeideHPC)
- 4. Choose a name for the connection and fill the field Saved Sessions. (Eg TeideHPC)
- 5. Save the configuration with the Save button.
- 6. Open a connection to the login node with Open.

Tips:

- For slow connections you can enable compression. You can find a checkbox in the Connection > SSH menu.
- SSH version 2 must be set as the preferred protocol version in Connection > SSH menu.

MobaXterm

MobaXterm is a toolbox for working remotely. In a single application it provides a lot of functions (SSH, X11, RDP, VNC, FTP, sFTP, MOSH, unix commands) that are designed for programmers, webmasters, IT administrators and practically all users who need to manage their remote work from a simpler way.

The free version has certain limitations, such as the number of simultaneous sessions, but you can use it without problems.

Follow this link for a guide.

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Ter	ninal	Sessions View X server	ver Tools Games Settings Macros Help	
)uick	connect	MobaXterm × 🔁	
«		User sessions	MobaXterm Professional v20.6 • (SSH client X server and network tools)	».
essions	>	Linux servers	> SSH session to root@192.168.56.62 (⊘ Debian) SSH-browser : ✓	MobaXterm
	>	Wy Virtual Machines	X11-forwarding : 🗸 (remote display is forwarded)	▶
lools		Phone devices		
1		RedHat cluster		
g	>	Tests servers		
Mac	> [Mindows servers		
1	> [WSL		
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