



# 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 [following 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 `~/.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

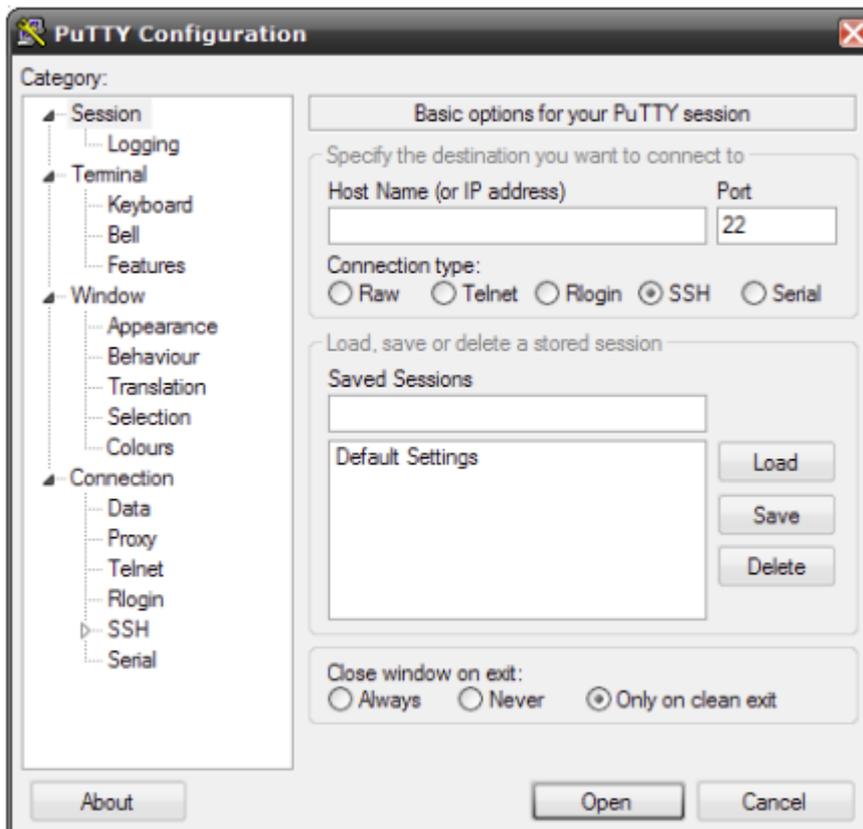
Windows users have several alternatives to connect via SSH to the login nodes:

**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.



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.

