

Intro to SSH Clients

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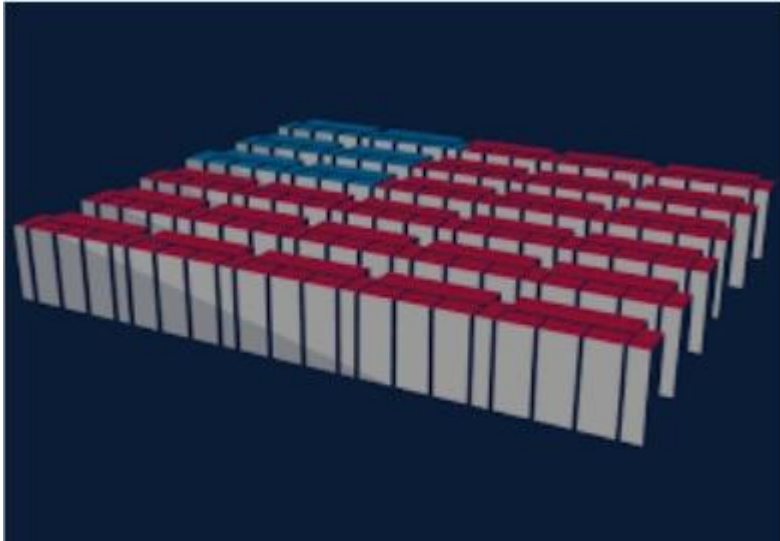
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This Training

How to login ?



Remotely ssh access clusters

- Connect to a cluster through secure shell SSH



Mac and Linux clients

- From terminal

Windows SSH clients

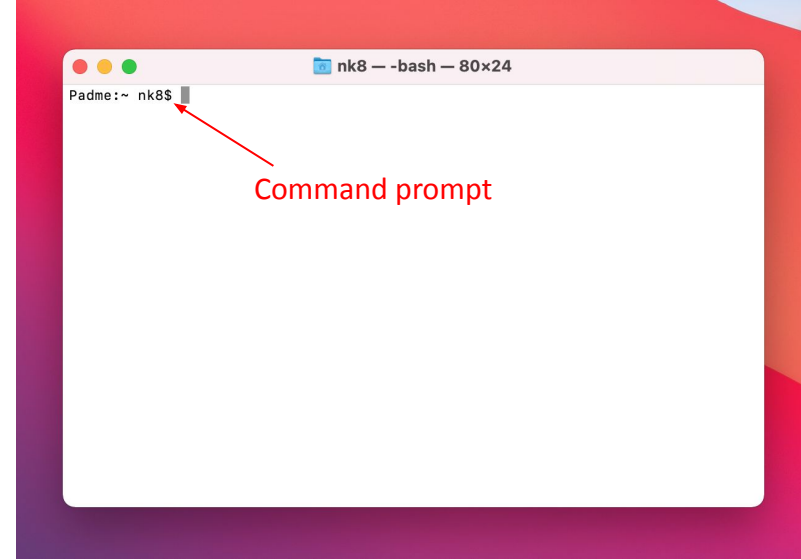
- Putty (www.putty.org)
- PowerShell
- GitBash (<https://gitforwindows.org/>)
- Moba Xterm (<https://mobaxterm.mobatek.net/>)

Terminal on MAC

- Terminal allows you to control you Mac from a command line.
- Usually under Applications> Utilities > Terminal
- Example shows bash shell, which has “\$” for a command prompt.

To Login to a remote computer:

- Open the terminal application
- Type command: **ssh uid@login1.ascent.olcf.ornl.gov**
- Type password

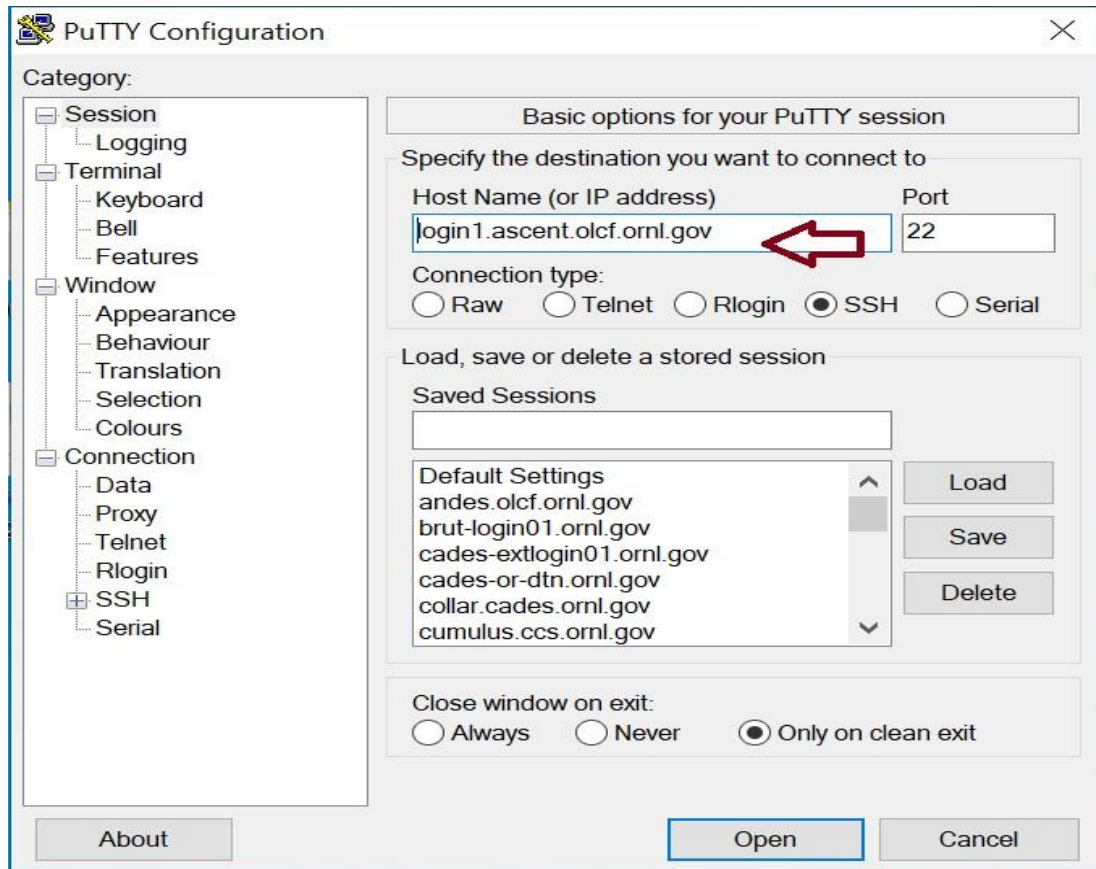


Putty

- Install and run PuTTY
- Type remote hostname or IP
- Click Open

For PuTTY help, see

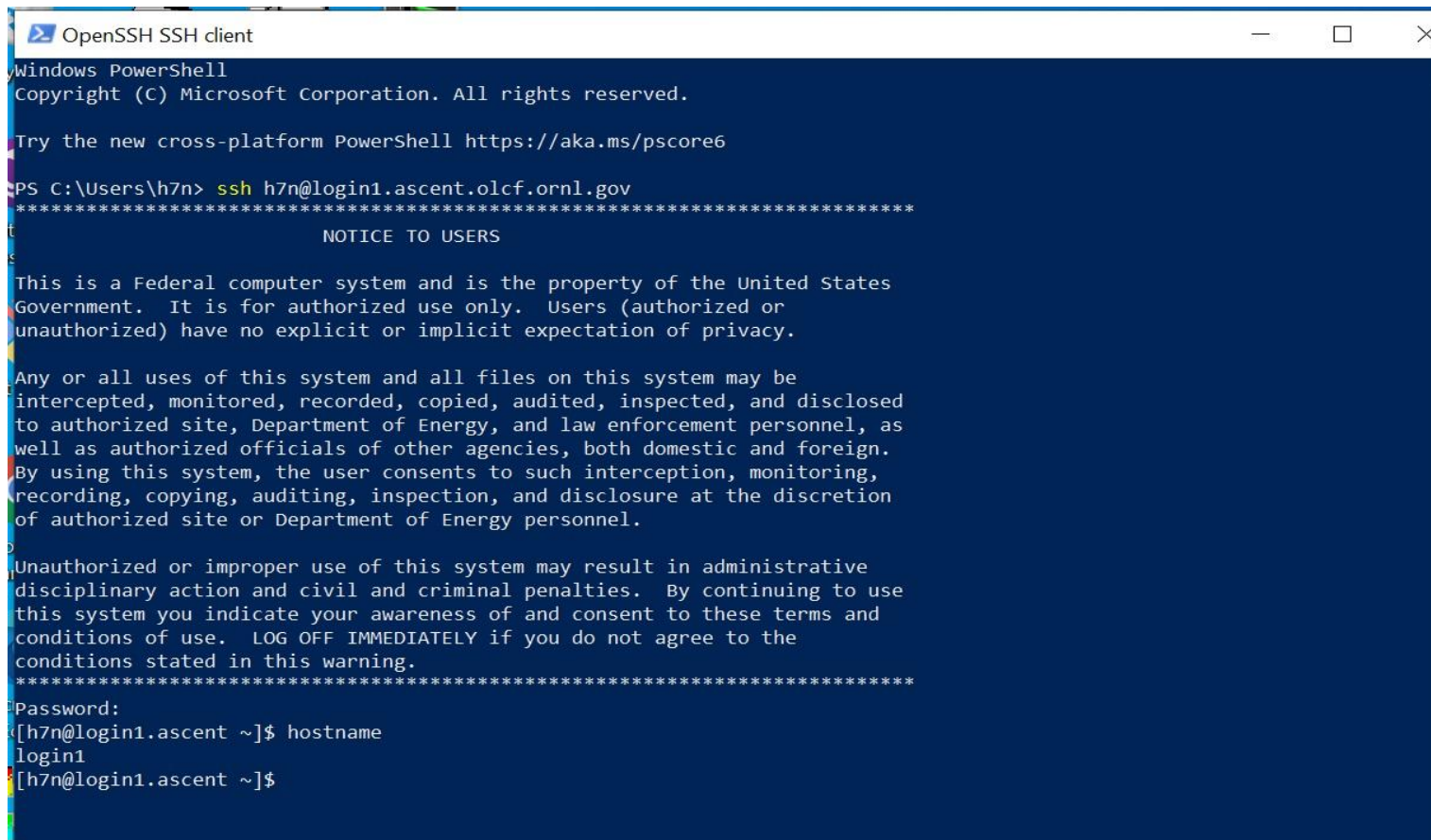
<https://www.ssh.com/ssh/putty/windows>



PowerShell

- Open the PowerShell terminal application
- Type command: `ssh uid@login1.ascent.olcf.ornl.gov`
- Type password

PowerShell



```
OpenSSH SSH client
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\h7n> ssh h7n@login1.ascent.olcf.ornl.gov
*****
t
s
                NOTICE TO USERS
e
This is a Federal computer system and is the property of the United States
Government. It is for authorized use only. Users (authorized or
unauthorized) have no explicit or implicit expectation of privacy.

Any or all uses of this system and all files on this system may be
intercepted, monitored, recorded, copied, audited, inspected, and disclosed
to authorized site, Department of Energy, and law enforcement personnel, as
well as authorized officials of other agencies, both domestic and foreign.
By using this system, the user consents to such interception, monitoring,
recording, copying, auditing, inspection, and disclosure at the discretion
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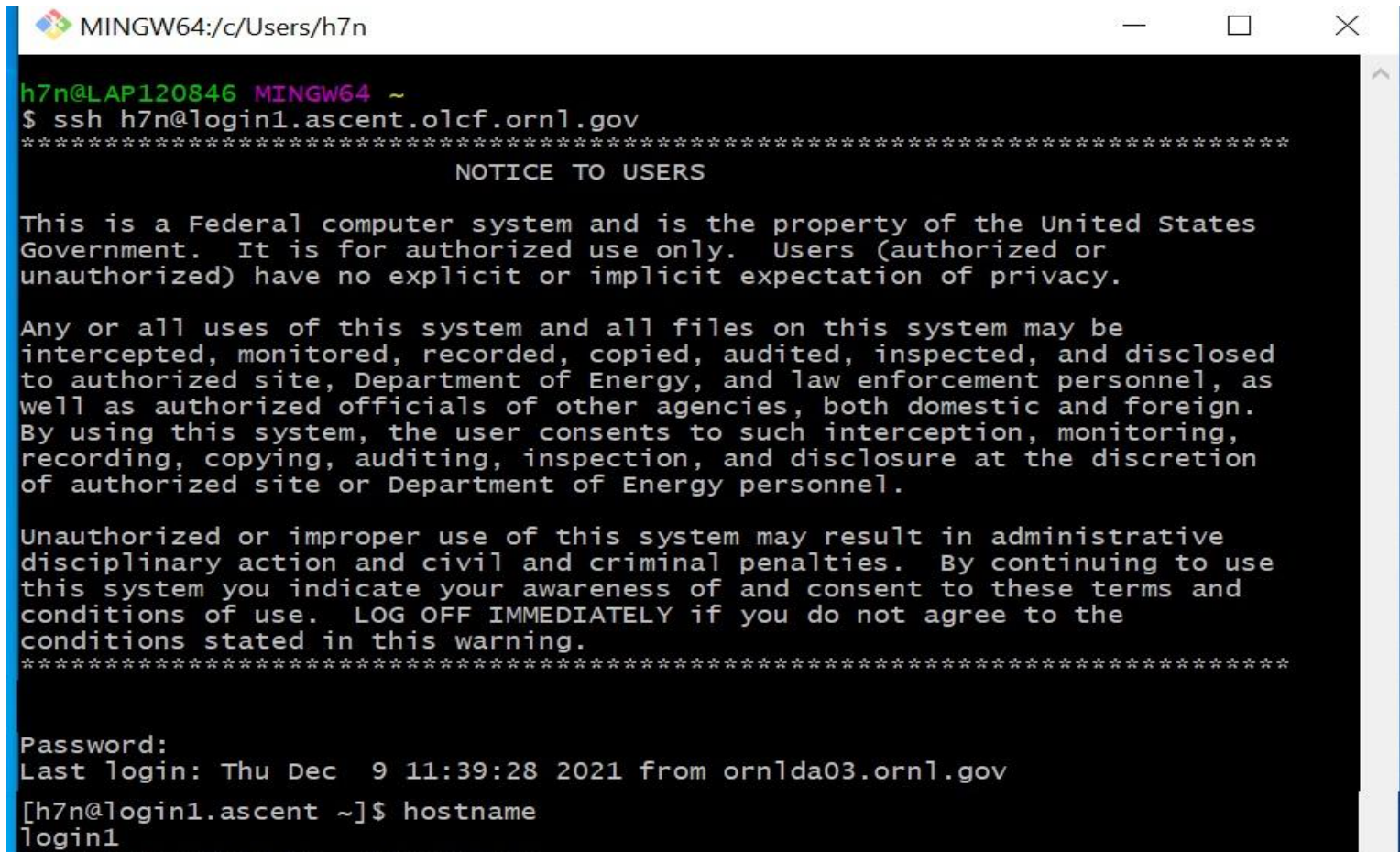
Unauthorized or improper use of this system may result in administrative
disciplinary action and civil and criminal penalties. By continuing to use
this system you indicate your awareness of and consent to these terms and
conditions of use. LOG OFF IMMEDIATELY if you do not agree to the
conditions stated in this warning.
*****
Password:
[h7n@login1.ascent ~]$ hostname
login1
[h7n@login1.ascent ~]$
```


GitBash

- Open the GitBash terminal application
- Type command: `ssh uid@login1.ascent.olcf.ornl.gov`
- Type password



GitBash



```
MINGW64:/c/Users/h7n
h7n@LAP120846 MINGW64 ~
$ ssh h7n@login1.ascent.ornl.gov
*****
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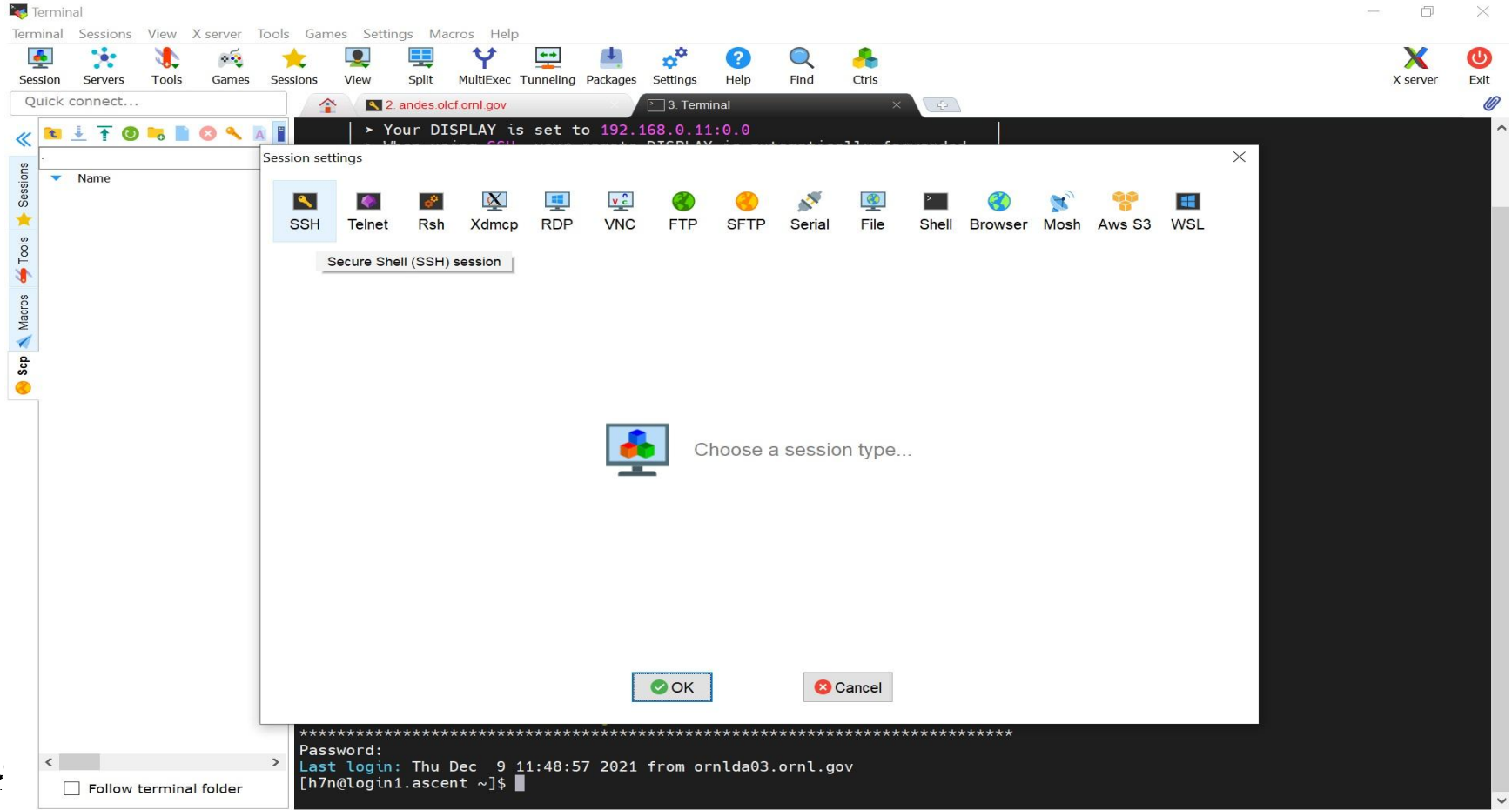
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conditions stated in this warning.
*****

Password:
Last login: Thu Dec  9 11:39:28 2021 from ornl-da03.ornl.gov
[h7n@login1.ascent ~]$ hostname
login1
```

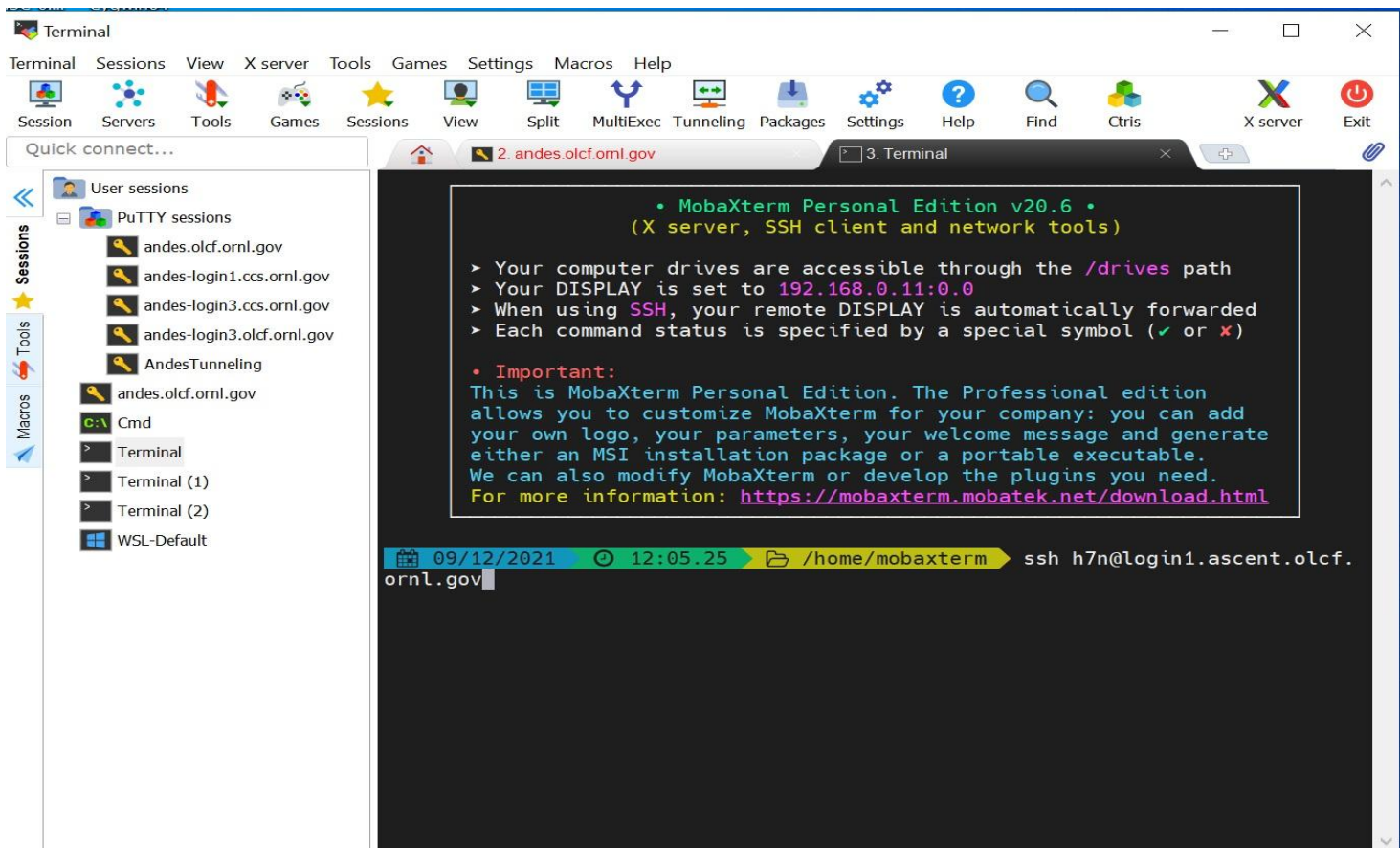
MobaXterm

- Install and Open the MobaXterm terminal application
- Go to sessions and choose SSH
- Or you open a shell and type command:
`ssh uid@login1.ascent.olcf.ornl.gov`
- Type password

MobaXterm

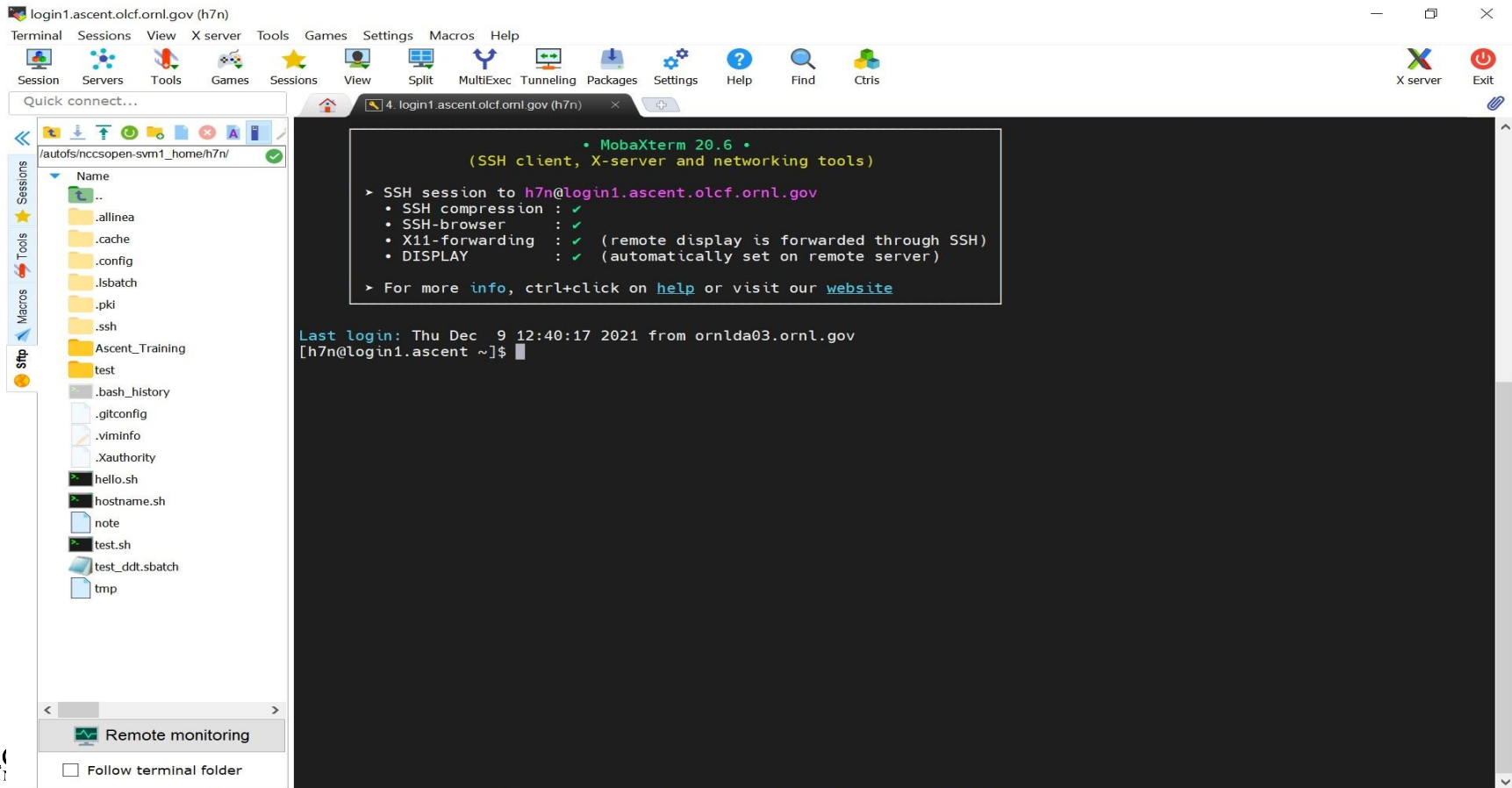


MobaXterm



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MobaXterm



Login Challenge

Mac and Linux:

Open your default terminal application and connect to the login node with the following command:

```
ssh USERNAME@login1.ascent.olcf.ornl.gov
```

Use your Password (which will be your UCAMS or XCAMS password)

Windows:

Use one of the ssh clients (putty, powershell, gitbash or MobaXterm) to login Ascent

https://docs.olcf.ornl.gov/systems/summit_user_guide.html#logging-in-to-ascent