

Getting Started with the National Systems
Video Series



computecanada

Accessing the environment

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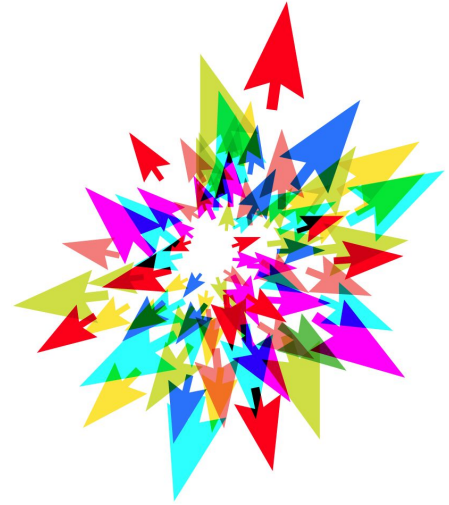
Overview

Logging into the compute systems

- ssh UNIX command
- Windows Clients (MobaXterm, etc)

Accessing the file systems and transferring files

- scp UNIX command
- sshfs mounting
- Globus Portal



System Addresses

The addresses and other details about the systems can be found on the Compute Canada wiki pages at:

- <https://docs.compute canada.ca/wiki/Graham>
- <https://docs.compute canada.ca/wiki/Cedar>

The Graham and Cedar addresses are:

- graham.compute canada.ca
- cedar.compute canada.ca



ssh login

From a UNIX terminal ssh login to vtds.computecanada.ca

Documentation for ssh to Compute Canada cluster is available at:

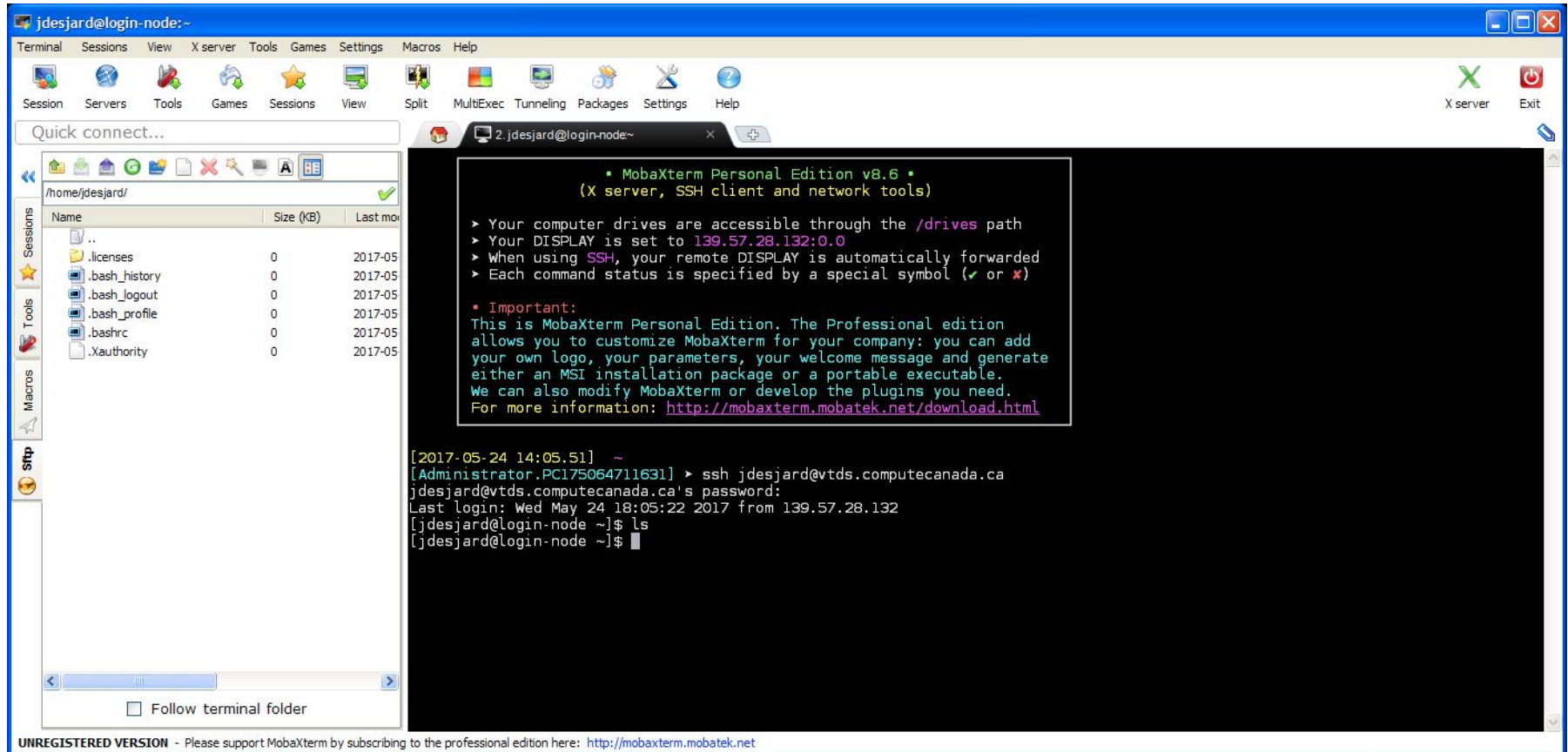
- <https://docs.computecanada.ca/wiki/SSH>

Example for user “jdesjard” connecting to “vtds.computecanada.ca”:

- ssh jdesjard@vtds.computecanada.ca



MobaXterm login and file transfer



The screenshot displays the MobaXterm interface. On the left, a file explorer shows the local file system for the user 'jdesjard' at '/home/jdesjard/'. The file list includes:

| Name | Size (KB) | Last modified |
|---------------|-----------|---------------|
| .. | | |
| .licenses | 0 | 2017-05 |
| .bash_history | 0 | 2017-05 |
| .bash_logout | 0 | 2017-05 |
| .bash_profile | 0 | 2017-05 |
| .bashrc | 0 | 2017-05 |
| .xauthority | 0 | 2017-05 |

The main terminal window shows the MobaXterm v8.6 welcome message and a list of configuration details:

- MobaXterm Personal Edition v8.6 •
(X server, SSH client and network tools)
- > Your computer drives are accessible through the `/drives` path
- > Your DISPLAY is set to `139.57.28.132:0.0`
- > When using SSH, your remote DISPLAY is automatically forwarded
- > Each command status is specified by a special symbol (✓ or ✗)

An important note follows:

- Important:
This is MobaXterm Personal Edition. The Professional edition allows you to customize MobaXterm for your company: you can add your own logo, your parameters, your welcome message and generate either an MSI installation package or a portable executable. We can also modify MobaXterm or develop the plugins you need. For more information: <http://mobaxterm.mobatek.net/download.html>

The terminal session continues with the following commands and output:

```
[2017-05-24 14:05:51] ~  
[Administrator.PC175064711631] > ssh jdesjard@vtds.computecanada.ca  
jdesjard@vtds.computecanada.ca's password:  
Last login: Wed May 24 18:05:22 2017 from 139.57.28.132  
[jdesjard@login-node ~]$ ls  
[jdesjard@login-node ~]$
```

At the bottom of the window, a footer reads: UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <http://mobaxterm.mobatek.net>

file transfer

Compute Canada provides data transfer documentation specific to the national systems at:

- https://docs.computecanada.ca/wiki/Transferring_data

Example terminal scp transfer to `vtds.computecanada.ca:/home/user`

- `scp -r myDataProject jdesjard@vtds.computecanada.ca:/home/jdesjard`



sshfs mount

From a UNIX terminal sshfs mount to
vtds.computecanada.ca:/home/jdesjard/myDataProject

- sshfs jdesjard@vtds.computecanada.ca:/home/jdesjard/myDataProject myRemoteMount

Once that the remote path is mounted local software can be used on the files

- File browser
- gedit
- meld



Globus file transfer

For efficient and secure data transfers the Compute Canada Globus Portal provides an intuitive interface

Documentation for Globus is at:

- <https://docs.compute canada.ca/wiki/Globus>

The Graham and Cedar Globus Endpoints are:

- compute canada#graham
- compute canada#cedar

The Compute Canada Globus Portal is at:

- <https://globus.compute canada.ca>

