SSH for Windows Users

Jemmy Hu SHARCNET HPC Analyst

1. SSH

Secure Shell is a program to log into another computer over a network. SSH is available for Windows, Unix/Linux, and Macintosh. For Windows users, SSH is available free from (<u>http://ftp.ssh.com/pub/ssh/SSHSecureShellClient-3.2.9.exe</u>) It comes with SSH Secure Shell Client and Secure File Transfer Client. Also, there are other tools such as PuTTY (<u>http://www.putty.nl/</u>) available for Windows.

Logon to SHARCNET cluster from Windows:

a) double click the SSH Secure Shell Client icon on your desktop, you will have a new window



b) click the 'Quick Connect' on top of the banner bar, the pop-up window is



c) enter the machine domain name and your username, such as whale.sharcnet.ca

Conne	ct to Remote Host		
	<u>H</u> ost Name:	whale.sharcnet.ca	Connect
22	<u>U</u> ser Name:	jemmyhu	Cancel
	Port Number:	22	
	Authentication Method:	<profile settings=""></profile>	

d) click 'Connect' button, a window will be up for Password

Enter Password	
December 1	OK
Eassword: II	Cancel

e) enter your Password and click 'OK', if succeeded, you have logged on the remote machine. Type 'pwd' from command line, you will find that you are in your home directory

🕮 whale.sharcnet.ca - default - SSH Secure Shell				<
<u> </u>				
🔲 🖨 🖪 🍠 🖻 🖻 🤗 🖊 🎒 🎒 🏀 🍭	?			
👔 Quick Connect 🦳 Profiles				
				~
SSH Secure Shell 3.2.0 (Build 267)				
Copyright (c) 2000-2002 SSH Communications Security	Corp - http://www.ssh.com/			
This copy of SSH Secure Shell is a non-commercial v	ersion.			
This version does not include PKI and PKCS #11 func	tionality.			
Last login: Tue Mar 27 10:13:54 2007 from jemmyhu.u	waterloo.ca			
Welcome to Whale, the SHARCNET Throughput cluster.	other clusters.			
Please see the following OKL for status of this and	other clusters:		-	_
*http://www.sharcnet.ca/Facilities/index.php				
Characterization (Section 201) 14 minut				
jemmynugwna/oi ~j\$ pwa /home/jemmyhu				
······································				~
Connected to whale.sharcnet.ca	SSH2 - aes128-cbc - hmac-md5 - none	104×17	NUM	11

f) Type 'cd /work/username' to go to your work directory

🕮 whale.sharcnet.ca - default - SSH Secure Shel	II.	
<u>File E</u> dit <u>V</u> iew <u>W</u> indow <u>H</u> elp		
🖬 🕭 🖻 📕 🍠 🛤 🖄 🎒 🖆	% Ø N?	
👔 Quick Connect 🦳 Profiles		
Please see the following URL for status of	this and other clusters:	~
*http://www.sharcnet.ca/Facilities/index.ph	np	
[jemmyhu@wha781 ~]\$ pwd /home/jemmyhu [jemmyhu@wha781 ~]\$ cd /work/jemmyhu [jemmyhu@wha781 jemmyhu]\$ <mark> </mark>		
Connected to whale.sharcnet.ca	SSH2 - aes128-cbc - hmac-md5 - none 96x14 🥢	

SSH File Transfer:

You should have a SSH Secure File Transfer Client icon together with SSH Secure Shell Client icon on your Windows once you installed SSH software. You can click that icon to start SFTP, or simply click the SSH FTC icon on the SSH login window shown below

a) click the SSH FTC icon on the top banner of the terminal window (4th from the right), it will pop-up a new window like the following

🚨 2:whale.sharcnet.ca - default -	SH Secure Fi	ile Transfer					
File Edit View Operation Window	<u>H</u> elp						
	10	D	abc 010 016	<i>⊗</i> №?			
	11						
└┻ ⑳ ♥ ☞ ╳		Add	🔁 🖆 🖾 🍄	📸 🗙 🛛 /home/	jemmyhu	► Add	
Local Name 🛛 🕹 Si	ze Type	Modified 🔥	Remote Name	∇	Size Type	Modified 🔥	
My Documents	System F	08/02/2007 📃	Alacant		Folder	30/01/20	
😼 My Computer	System F		Charm-NAMD		Folder	20/02/20(
Search Places	System F		Courses		Folder	20/02/20(
🥑 Recycle Bin	System F		DDT		Folder	27/02/20(
Internet Explorer	System F		🛅 g03-whale-goblin		Folder	10/01/20(
🖲 Adobe Photoshop Album Sta 2,00	7 Shortcut	05/05/2006	🚞 goblin-espresso		Folder	20/03/200	
📶 Adobe Reader 7.0 1,7*	0 Shortcut	16/01/2007	GW_test		Folder	16/03/20(
Surn CDs & DVDs with Sonic 1,8	0 Shortcut	27/04/2006	СПНО		Folder	27/03/20(
🕘 Mozilla Firefox 1,6	2 Shortcut	03/05/2006	🛅 Isaac		Folder	07/03/20(
MSN Messenger 7.5 1,7	6 Shortcut	03/05/2006 👽	Octave		Folder	06/03/20(🗸	
			<			>	
Transfer Queue							
∇ Source File Source Directory	De	stination Directory	/ Size	Status	Speed	Time	
<						>	
Connected to whale.sharcnet.ca - /home/jem	nyhu	S	SH2 - aes128-cbc - hmac	-md5 - none 14 iti	ems (44.8 KB)		

The left are all files on your Windows PC, the right are the files in your home directory on the remote cluster.

- b) specify your directory (modify the right-up window with '/home/username'), and move your file from your PC to the cluster by simply drag the icon from left (PC) to right(cluster).
- c) if done, close the FTC window