HPCC - Hrothgar Getting Started User Guide – Connecting to the Server -Windows



High Performance Computing Center Texas Tech University

Table of Contents

1. Logging on to Hrothgar using Putty for windows users	3
1.1. Logging on the first time and save the session for future logins	3
1.2. Logging out of the session	6
1.3. Logging using the saved session	6
2. Logging on to Hrothgar using SSH for Windows User	7
2.1. Logging on the first time and save the sessions/profile for future login	7
2.2. Logging out of the session	10
2.3. Logging using the saved session	11
2.4. Transferring files using SSH for windows user	12

User Guide

HPCC servers do not support direct logins or file transfers via telnet, rlogin, ftp, or rcp. All of these programs transmit passwords in the clear and have other vulnerabilities. Please login/transfer files using the Secure Shell protocol, which encrypts your entire login session. You must install a secure shell client on your local computer. We recommend the free programs putty/pscp/psftp or Secure Shell Client suite for windows. Putty/pscp/psftp is downloadable from http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html, and Secure Shell Client is downloadable from http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html, and Secure Shell Client is client for MS-Windows is available from LabF.com and allows 30 minute sessions without registration. Another MS-Windows commercial ssh client is F-Secure SSH.

Please set SSH version 2 in your client programs. Either version 1 or 2 are now accepted, but soon only version 2 will be accepted by HPCC servers.

1. Logging on to Hrothgar using Putty for windows users

Putty is a "terminal program" that you use to connect to login in to Hrothgar from your own (desktop or laptop) computer. Putty is free and very easy to install. Putty is available from: http://www.chiark.greenend.org.uk/~sgtatham/putty/ or http://www.putty.org/

Putty is an .exe file and does not need to be installed, just save it to your desktop and double click when you need it.

🞇 PuTTY Configurati	on 📃 📉
Category:	Basic options for your PuTTY session
- Session - Logging - Terminal - Keyboard - Bell - Window - Appearance - Behaviour - Translation - Selection	Specify your connection by host name or IP address Host Name (or IP address) Port hrothgar.hpcc.ttu.edu 22 Protocol: Raw Telnet Riogin SSH Load, save or delete a stored session Saved Sessions
Colours Connection Telnet Riogin SSH Auth Tunnels	Hrothgar Default Settings Hrothgar Save Delete
	Close window on exit: ⊚ Always ⊚ Never
About	Open Cancel

1.1. Logging on the first time and save the session for future logins

1)Double click the putty.exe

2)Enter "hrothgar.hpcc.ttu.edu" in the 'Host Name' box.

3)Select "SSH" from the Protocol' radio button.

4)It's useful to enter a session name, "Hrothgar" in the above case and Click 'Save' to save the session, so you don't need to remember the details next time.



5) Select "Hrothgar" from the 'Saved Sessions' box, and click on 'Open'

6) Click 'Yes' to get started with the session





7) Type the eraider username after "Login as:"

- 8) Type the eraider password
- 9) Press enter to login

Steps 7) ~ 9) are shown in the following screen shot.



10)Successful login if the command prompt appears as above. (Note hrothgar:\$ is particular to this example only)

1.2. Logging out of the session



1)Type 'exit' at the command prompt and hit enter to end the session

1.3. Logging using the saved session

1)Double click the putty .exe

🞇 PuTTY Configurati	on 💌
PuTTY Configurati Category:	on Basic options for your PuTTY session Specify your connection by host name or IP address Host Name (or IP address) Port 22 Protocol: Raw Telnet Rlogin SSH Load, save or delete a stored session Saved Sessions Hrothgar
Selection Colours Connection Rlogin SSH Auth Tunnels	Hrothgar Load Save Load Save Delete Close window on exit: Always Never Only on clean exit
About	Open Cancel

2)Select the previously stored session 'Hrothgar'

3)Click 'Load', this will populate the previously stored settings 4)Click 'Open'

5)Follow the steps 7-10 given in Logging on the first time and save the session for future logins

2. Logging on to Hrothgar using SSH for Windows User

Install Secure Shell Client for Windows as regular Windows software. It is available from http://www.sscnet.ucla.edu/ssc/caroline/application/SSHSecureShellClient-3.2.9.exe

2.1. Logging on the first time and save the sessions/profile for future login

1) Double click on 'SSH Secure Shell Client' icon created on the desktop after installation, you will see a window opens as shown below



2)Click 'Quick Connect'

Connec	t to Remote Host		کک
	Host Name:		Connect
13	User Name:		Cancel
	Port Number:	22	
	Authentication Method:	<profile settings=""></profile>	•

3)Enter the details Host Name: name of the server (e.g. hrothgar.hpcc.ttu.edu)

4)Enter your eraider username in the "User Name" box

5)Leave "Port Number" and "Authentication Method" as default (22,<Profile Setting> respectively)

6)Click 'Connect'

	Connect to Remote Host	<u> </u>	-
Host Name: hrothgar.hpcc.ttu.edu Connect User Name: eraider name Cancel Port Number: 22 Authentication Method: <profile settings=""></profile>	Host Name: hrothgar.h User Name: eraider na Port Number: 22 Authentication Method: <profile se<="" td=""><td>mel Connect Cancel</td><td></td></profile>	mel Connect Cancel	

7)Click 'OK'



8)Enter the eraider password and hit 'OK' in the "Enter Password" window.

ter Password	-	
	[OK
assword:		Cancel

9)Enter a profile Name (e.g. Hrothgar) in the "Add Profile" window, and click "Add to Profiles"

Add Profile		x
Hrothgar	Add to Profiles	

10) On successful login the command prompt will appear as below

👛 hrothgar.hpcc.ttu.edu - default - SSH Secure Shell		3
Quick Connect Profiles		
<u> </u>		
This copy of SSH Secure Shell is a non-commercial version. This version does not include PKI and PKCS #11 functionality.		•
Use of Texas Tech computers and networks requires prior authorization. Your use of these systems may be monitored by automated and/or manual security testing procedures. Unauthorized use of these systems is prohibited and abuse is subject to immediate termination of the account or service and University disciplinary procedure and/or criminal prosecution.		
If you have questions concerning this notification screen, please contact IT Help Central at 742-HELP (4357).		=
If you are having trouble logging in, make sure you are using your eRaider userid/password combination.		
Last login: Thu Oct 21 13:43:23 2010 from ad212.dhcp.ttu.edu		
Rocks Compute Node Rocks 5.3 (Rolled Tacos)		
Profile built 16:54 20-Sep-2010		
Kickstarted 17:09 20-Sep-2010 hrothgar:\$		-
Connected to hrothgar.hpcc.ttu.edu SSH2 - aes128-cbc - hmac-md5 - n(80x24	4	

http://www.hpcc.ttu.edu

2.2. Logging out of the session

1) Type 'exit' at the command prompt and hit 'enter' key



2) Successful logout will appear as shown below



2.3. Logging using the saved session

1) Double click on 'SSH Secure Shell Client' icon created on the desktop after installation, you will see a window opens as shown below



2) Click 'Profiles', then choose profile name previously stored (e.g. Hrothgar in this case)

hrothgar.hpcc.ttu.edu -	Hrothgar - SSH See	ture Shell			x
🛛 🖬 🍯 🖻 🔳 🔳	B B B #	湭 🚰 🧠 🎭			
🛛 🚺 Quick Connect 🗎	Profiles				
<u>F</u> ile <u>E</u> dit <u>V</u> iew	Edit Profiles				
hrothgar:\$ exit	Add Profile				-
logout	Hrothgar	works requires prior	authorization.		
Your use of these 🖉	defaultsftp	nitored by automated	and/or manual		
security testing	pmane grendel	orized use of these s immediate termination	ystems is of the account		
or service and Ur	root_Testwulf	ary procedure and/or	criminal		
prosecution.					
If you have question	ns concerning th	nis notification scree	n, please		
contact if help cent	rai at /42-neli	(4357).			
If you are having tr eRaider userid/passw	couble logging : word combination	in, make sure you are	using your		
1°					
					Ξ
			80x24	2	
		1	,	1 Martine 1	1 1/1

3) Repeat the steps 6-11 from section 2.1. Logging on the first time and save the session for future logins.

2.4. Transferring files using SSH for windows user

File transfer can happen only after successful login. This file transfer is used for remote - local machine and local – remote machine file transfers.

1) Click on 'New file Transfer Window' (button/icon is marked with red in the snapshot below) this will open a new window

🧃 grendel.hpcc.ttu.edu - default - SSH Secure Shell	
Eile Edit View Window Help	
📔 Quick Connect 📋 Profiles	
This version does not include PKI and PKCS #11 functionality.	•
Use of Texas Tech computers and networks requires prior authorization.	
security testing procedures. Unauthorized use of these systems is	
prohibited and abuse is subject to immediate termination of the accoun or service and University disciplinary procedure and/or criminal	t
prosecution.	
If you have questions concerning this notification screen, please contact IT Help Central at 742-HELP (4357).	
If you are having trouble logging in, make sure you are using your eRaider userid/password combination.	
Last login: Mon Apr 6 16:36:08 2009 from elogserv.hpcc.ttu.edu Rocks Compute Node Rocks 5.0 (V)	
Profile built 15:11 24-Mar-2009	
Kickstarted 15:18 24-Mar-2009 grendel:\$	
Display table of contents of the local help SSH2 - aes128-cbc - hmac-md5 - nc 80x24	

🚰 2:grendel.hpcc.ttu.edu - default -	SSH Secure File Tra	ansfer		
<u>File Edit View Operation Window H</u> elp				
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👔 Quick Connect 🚊 Profiles				
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Local Name /	Size Type 🔺	Remote Name /	Size Type	
🔤 poonam	Systen	del.sh	34 SH File	
퉬 Public	Systen 🗏	hello.sh	30 SH File	
🜉 Computer	Systen	machinefile.30223	152 30223 F	
💇 Network	Systen	poonamjob.e30223	0 E30223	
CINTERNET Explorer	Systen	poonamjob.o30223	19 O30223	
🛃 Control Panel	Systen	test.sh	142 SH File	
🕘 and Laptop	Systen	test_script.sh	0 SH File	
🐸 Mozilla Firefox	1,778 Shortc			
OpenOffice.org 3.0	1,047 Shortc			
SSH Secure File Transfer C	2,125 Shortc			
SSH Secure Shell Client	1,167 Shortc			
*	F:1_ F_	• [11]	•	
Transfer Queue				
C Source File Source Directory Destination Dire Size Status Speed Time				
+ [] + [] + []				
Connected to grendel.hpcc.ttu.edu - SSH2 - aes128-cbc - hmac-md5 - nx 7 items (377 B)				

- 2) The left window pane shows the files on the local machine and the right pane shows the files on remote machine.
- 3) Dragging files from left to right pane will copy the files from the local to remote machine
- Dragging files from right to left pane will copy the files from the remote to local machine Note: Point at appropriate/desired directories before copying the files

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For Additional Assistance Contact: <u>hpccsupport@ttu.edu</u>

For Comments/Suggestions on user guide <u>hpcc@ttu.edu</u>