

# HPCC - Hrothgar

## Getting Started User Guide – Connecting to the Server -Windows



High Performance Computing Center  
Texas Tech University

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# 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://charlotte.at.northwestern.edu/bef/SSHdist.html>. A downloadable ssh 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.

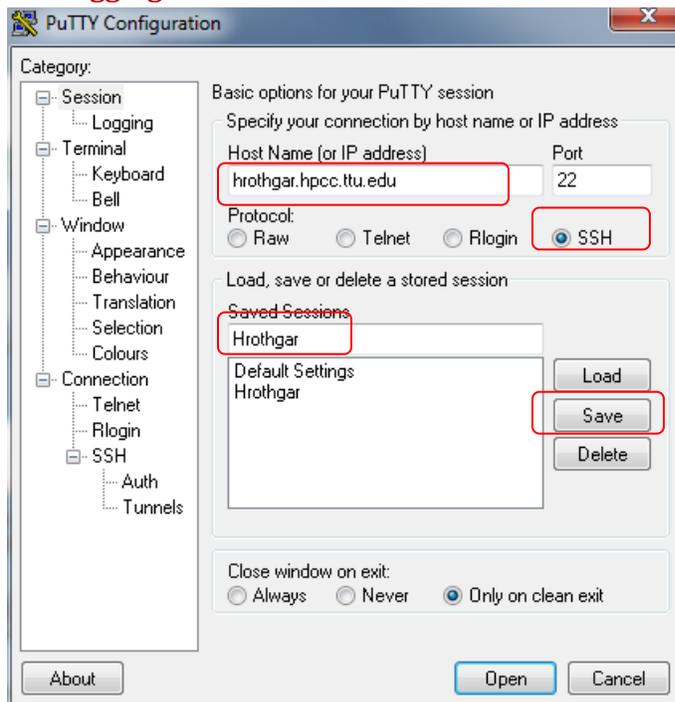
Please set SSH version 2 in your client programs. Either version 1 or 2 are now accepted, but soon only version 2 will be accepted by HPCC servers.

## 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.

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

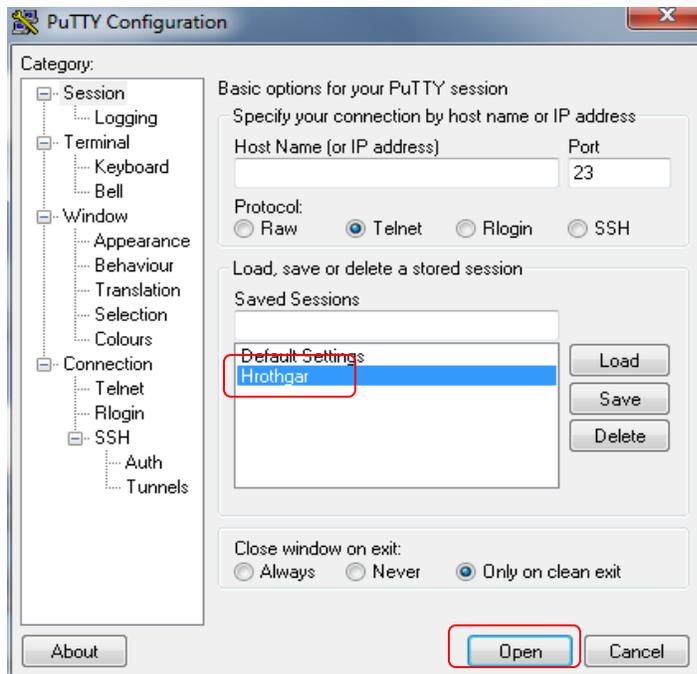


1) Double click the putty.exe

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

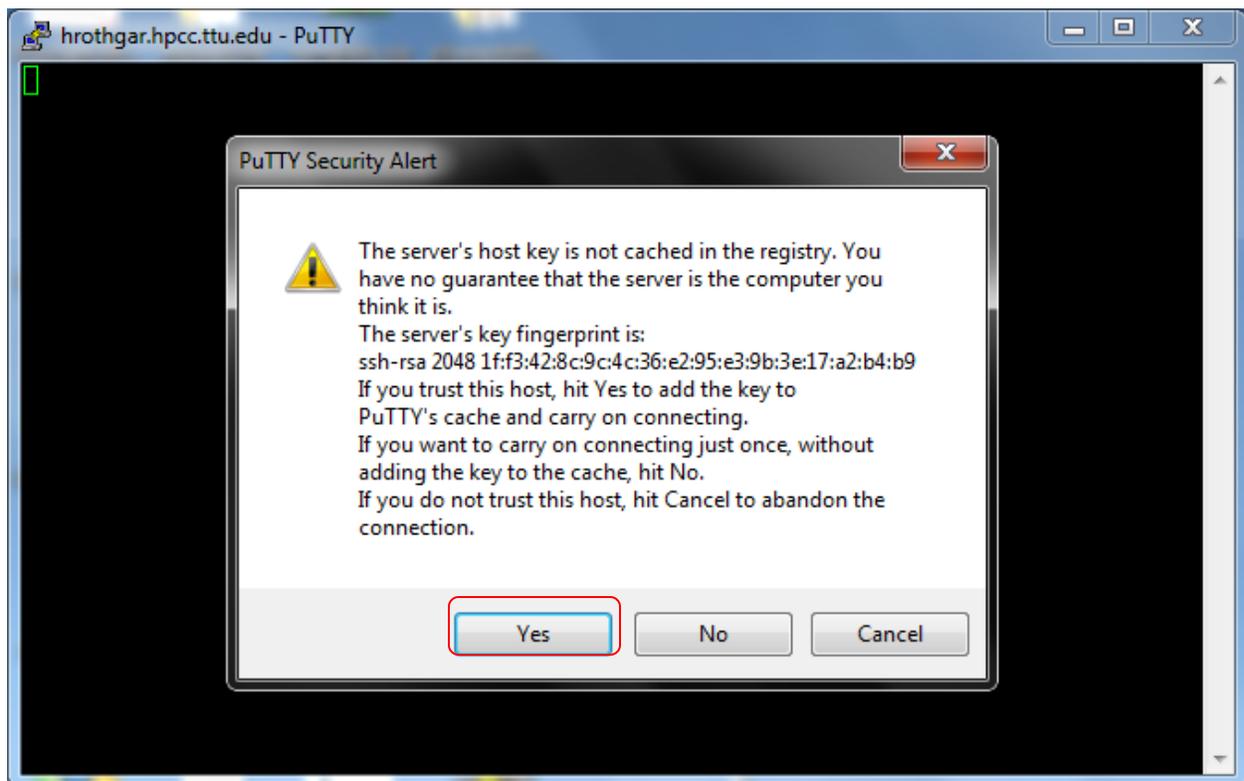
3) Select "SSH" from the Protocol' radio button.

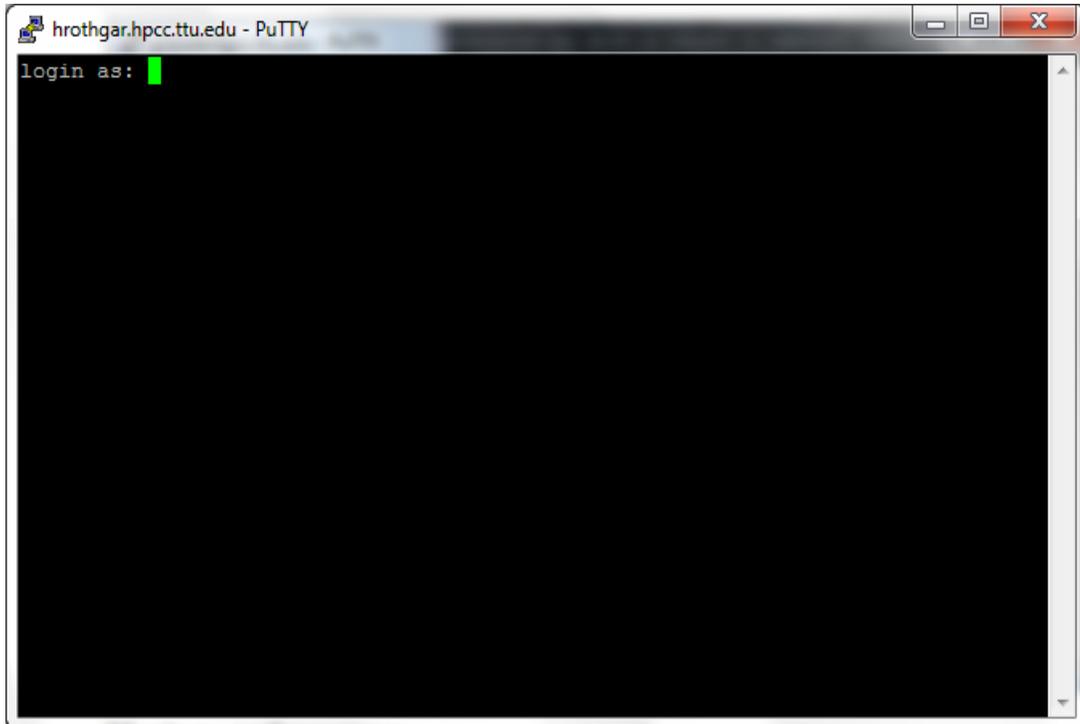
4) It's useful to enter a session name, "Hrothgar" in the above case and Click 'Save' to save the session, so you don't need to remember the details next time.



5) Select “Hrothgar” from the ‘Saved Sessions’ box, and click on ‘Open’

6) Click ‘Yes’ to get started with the session



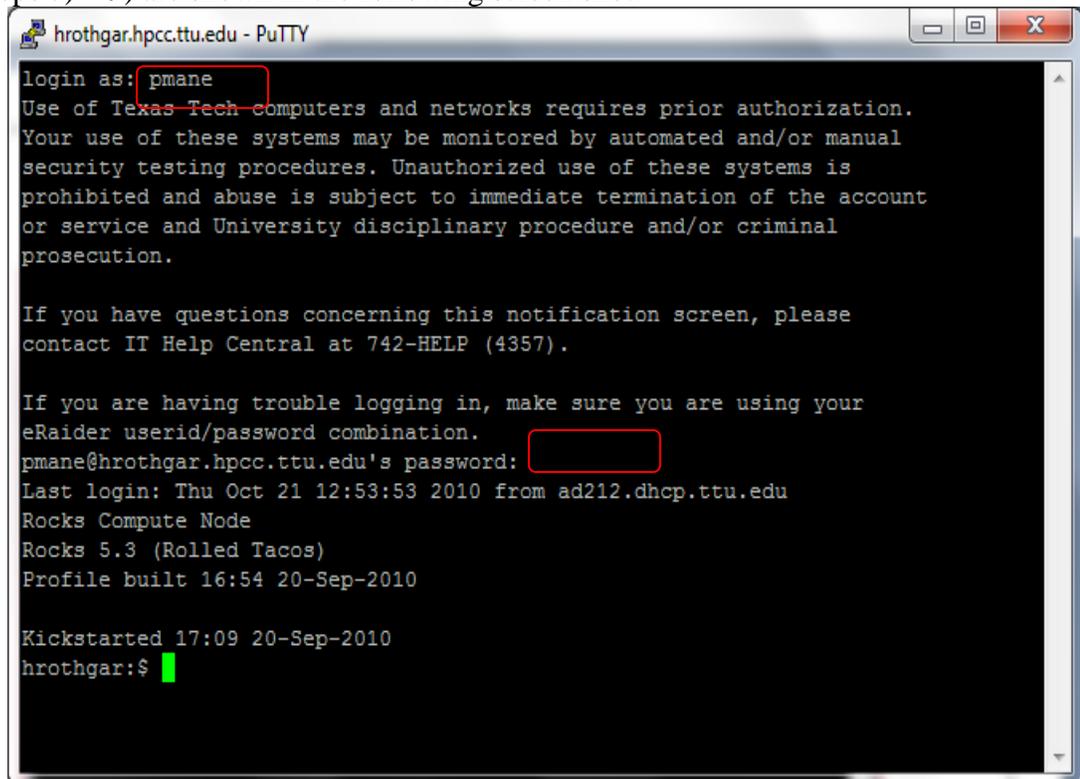


7) Type the eraider username after "Login as:"

8) Type the eraider password

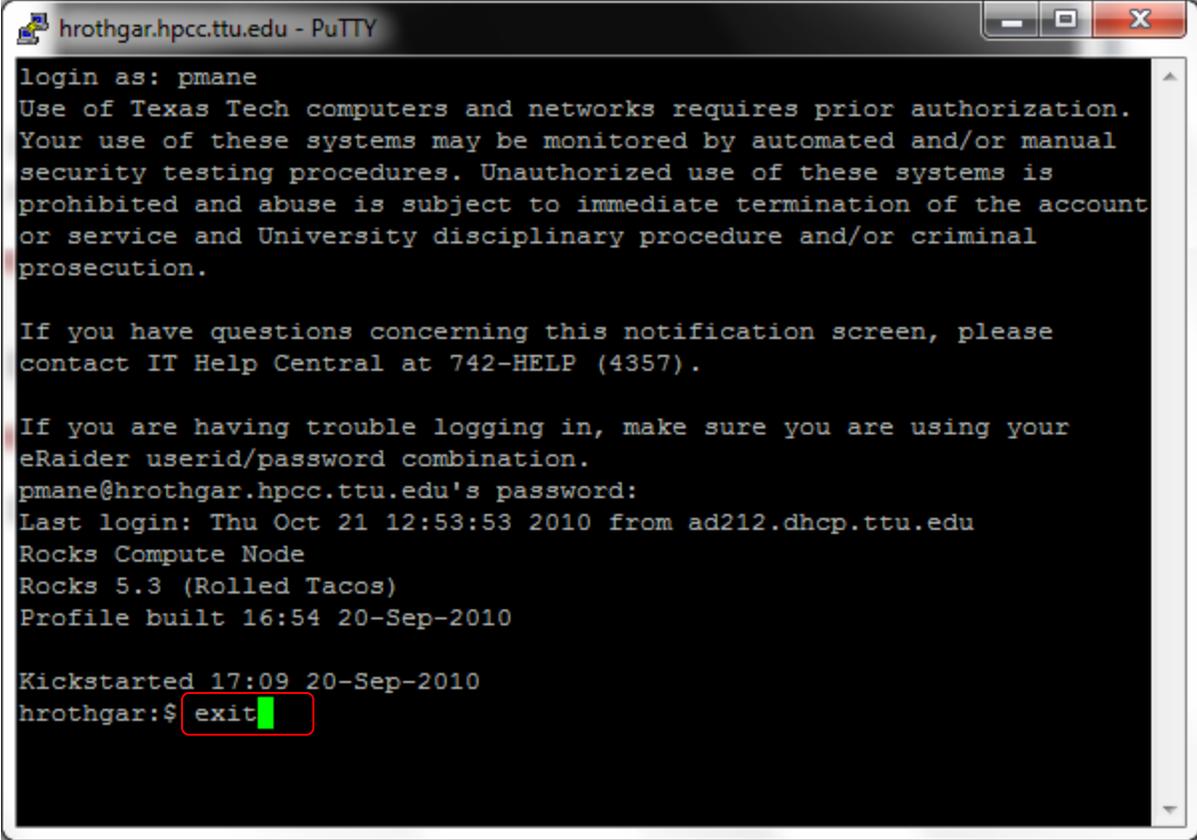
9) Press enter to login

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



```
hrothgar.hpcc.ttu.edu - PuTTY
login as: pmane
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).

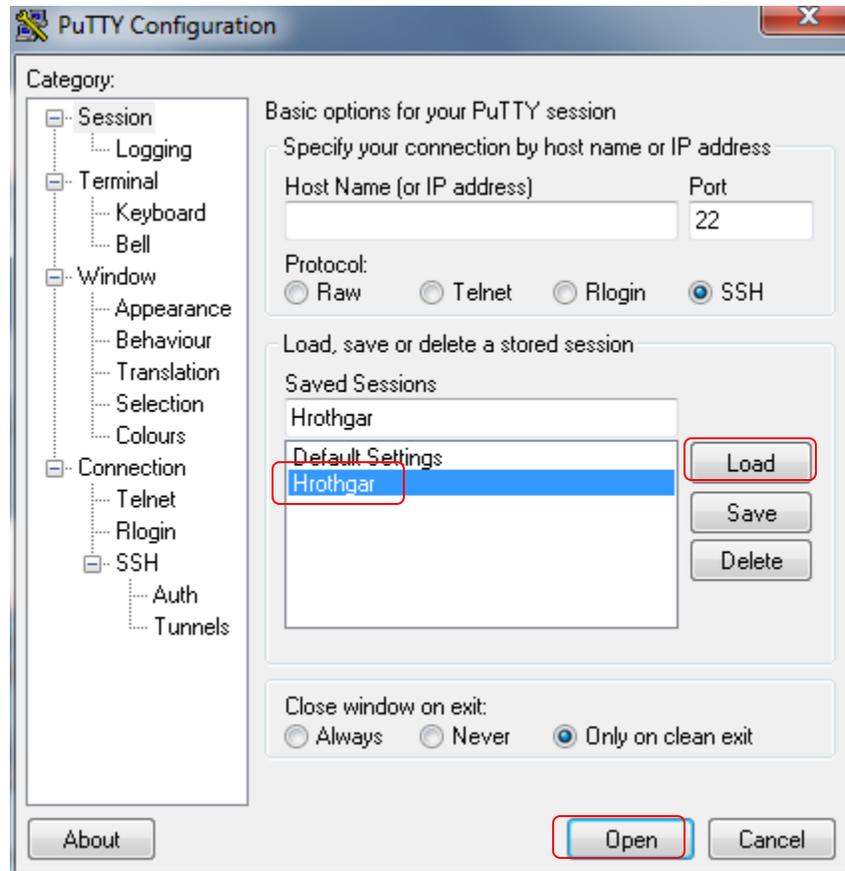
If you are having trouble logging in, make sure you are using your
eRaider userid/password combination.
pmane@hrothgar.hpcc.ttu.edu's password:
Last login: Thu Oct 21 12:53:53 2010 from ad212.dhcp.ttu.edu
Rocks Compute Node
Rocks 5.3 (Rolled Tacos)
Profile built 16:54 20-Sep-2010

Kickstarted 17:09 20-Sep-2010
hrothgar:$ exit
```

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



- 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

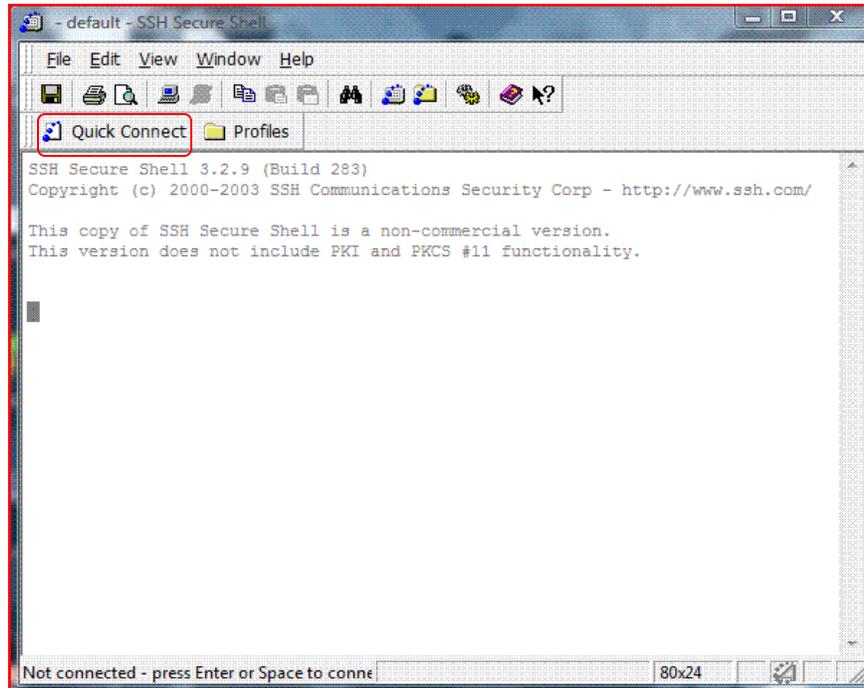
## 2. Logging on to Hrothgar using SSH for Windows User

Install Secure Shell Client for Windows as regular Windows software. It is available from

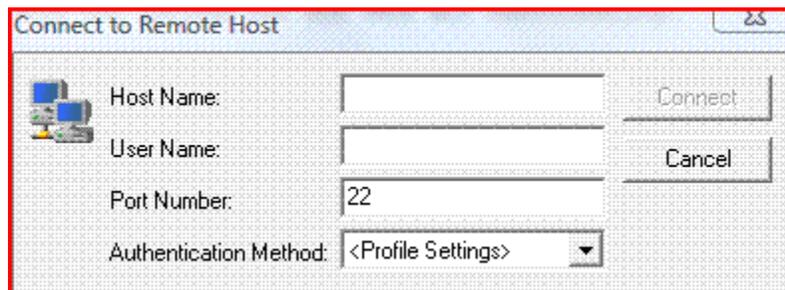
<http://www.sscnet.ucla.edu/ssc/caroline/application/SSHSecureShellClient-3.2.9.exe>

### 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'

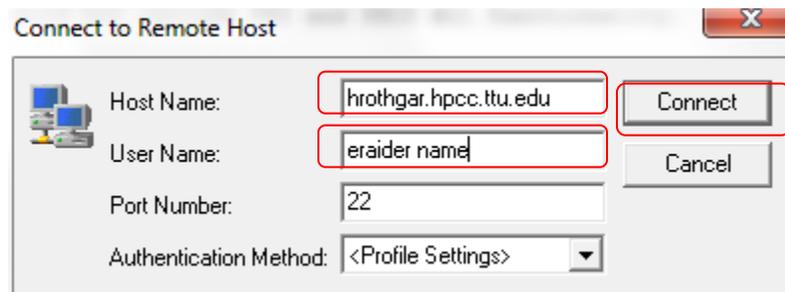


3)Enter the details Host Name: name of the server (e.g. hrothgar.hpcc.ttu.edu)

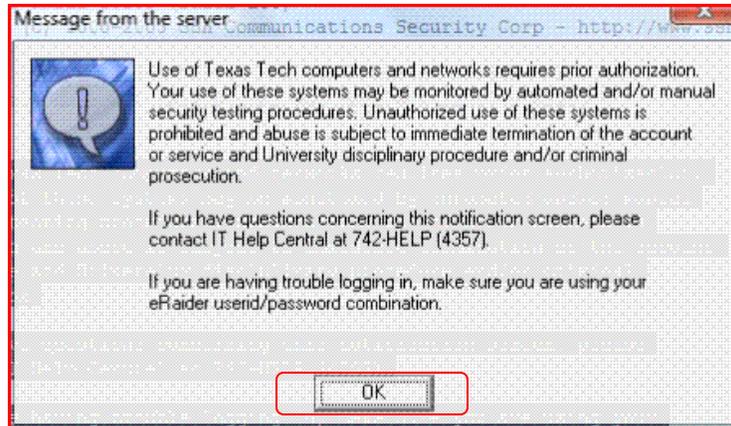
4)Enter your eraider username in the "User Name" box

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

6)Click 'Connect'



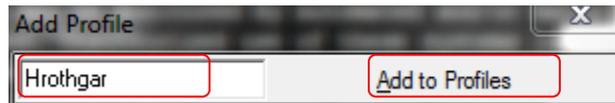
7)Click 'OK'



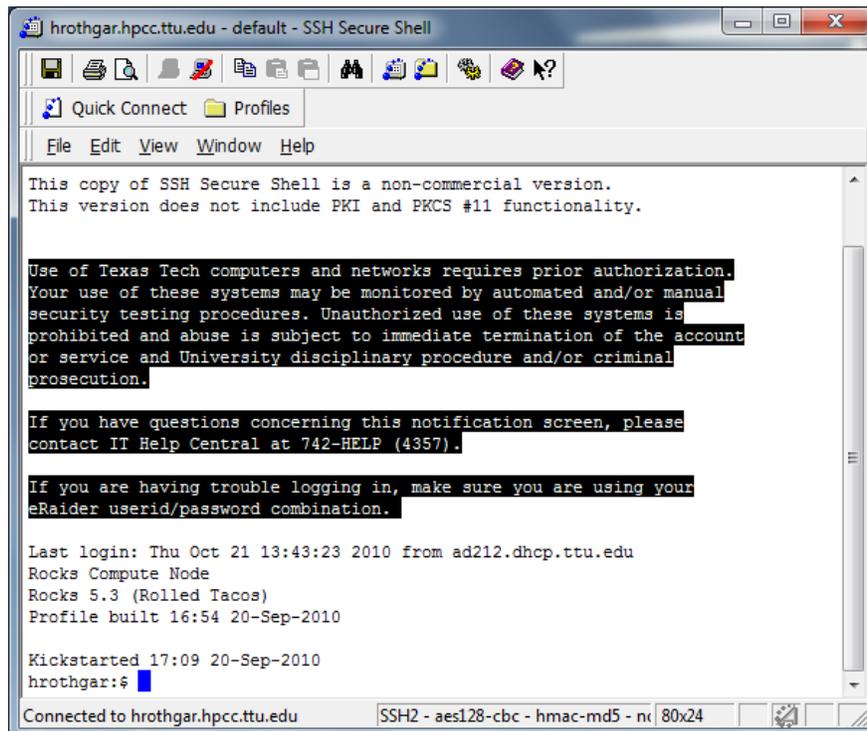
8) Enter the eraider password and hit 'OK' in the "Enter Password" window.



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

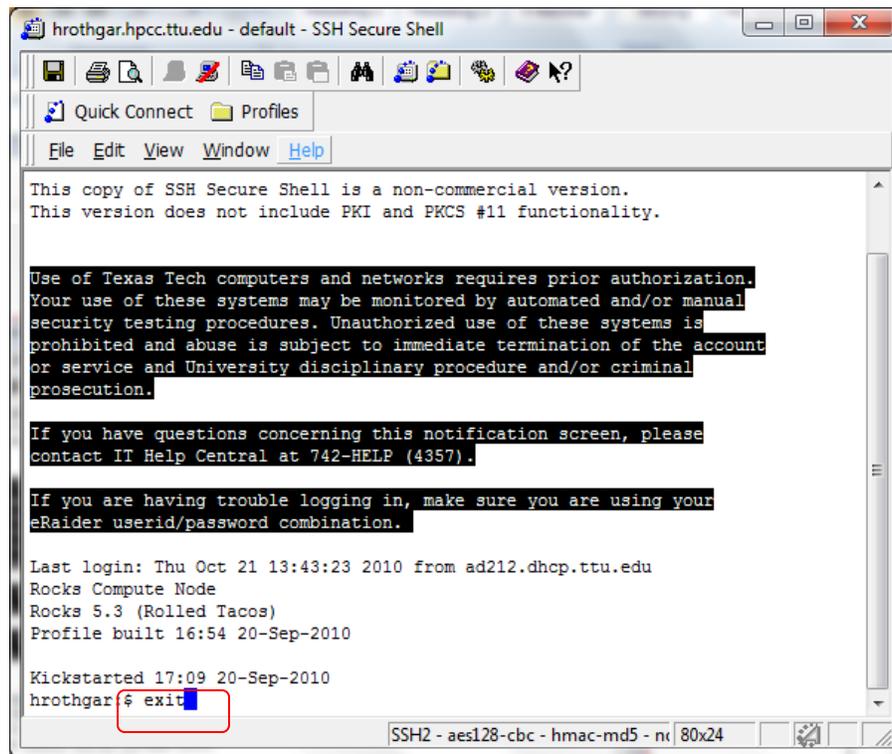


10) On successful login the command prompt will appear as below



## 2.2. Logging out of the session

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



The screenshot shows a terminal window titled "hrothgar.hpcc.ttu.edu - default - SSH Secure Shell". The window contains several lines of text, including a disclaimer about the non-commercial version of SSH Secure Shell, a warning about unauthorized use of Texas Tech systems, and login information. At the bottom, the prompt "hrothgar:" is followed by the command "\$ exit" which is highlighted with a red box.

```
hrothgar.hpcc.ttu.edu - default - SSH Secure Shell
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.

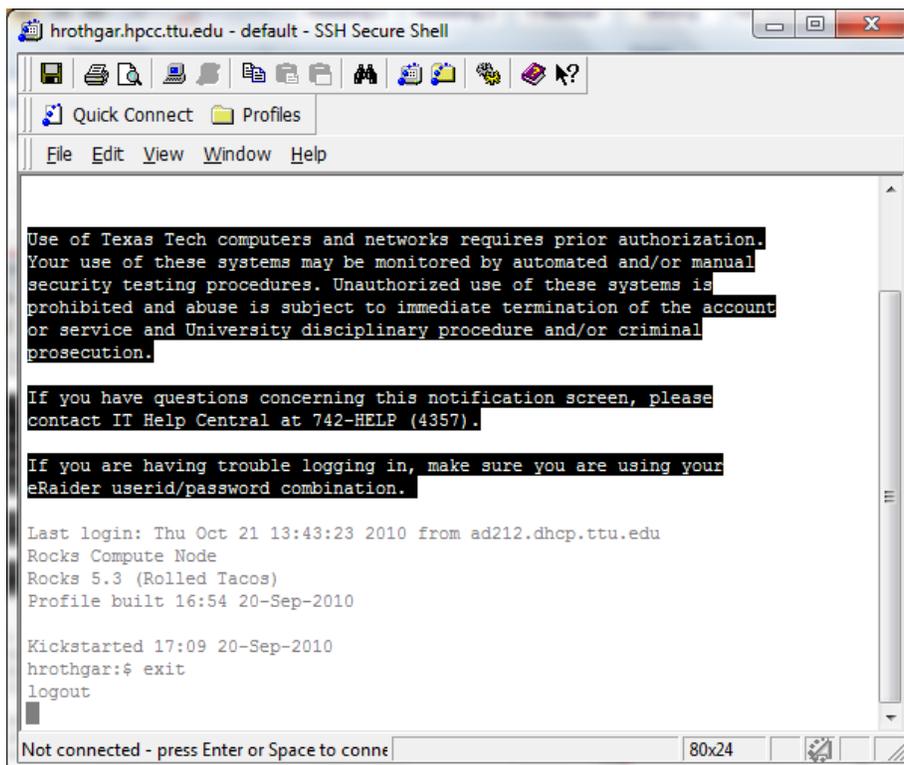
If you have questions concerning this notification screen, please
contact IT Help Central at 742-HELP (4357).

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: $ exit
```

- 2) Successful logout will appear as shown below



The screenshot shows the same terminal window as above, but now the command "exit" has been executed. The terminal displays "logout" and "Not connected - press Enter or Space to connect".

```
hrothgar.hpcc.ttu.edu - default - SSH Secure Shell
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
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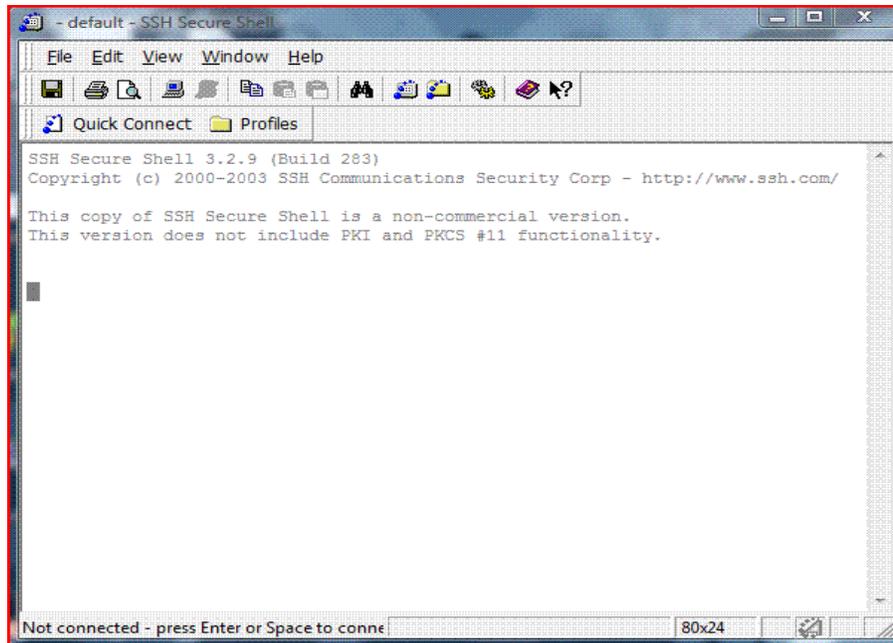
If you are having trouble logging in, make sure you are using your
eRaider userid/password combination.

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

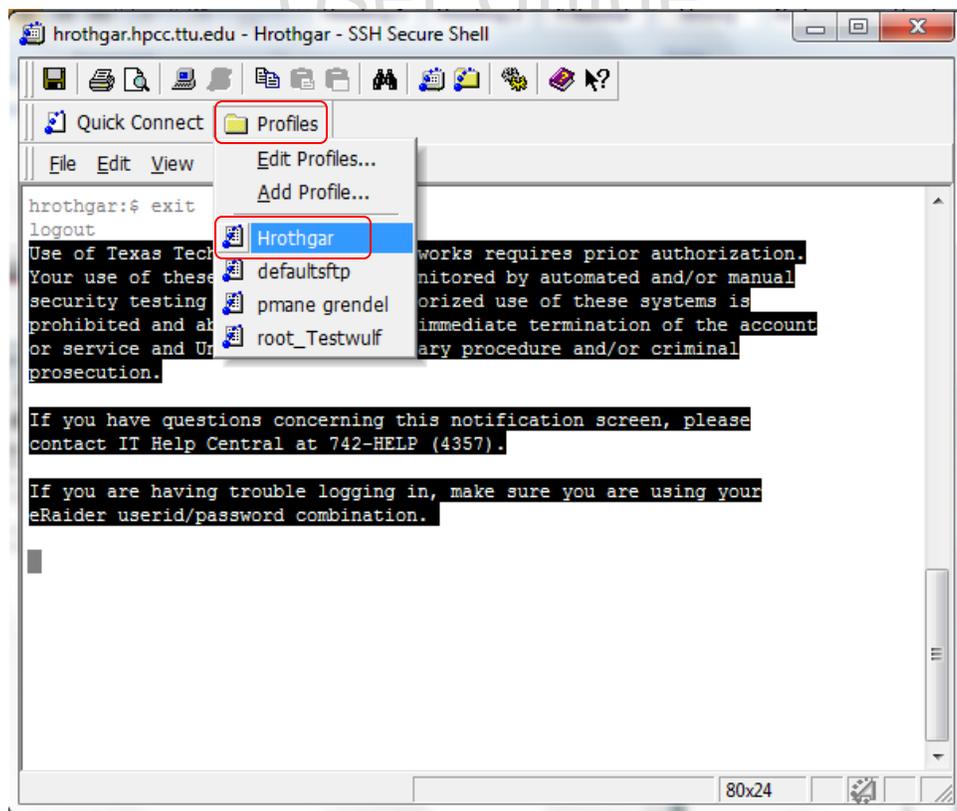
Kickstarted 17:09 20-Sep-2010
hrothgar: $ exit
logout
Not connected - press Enter or Space to connect
```

### 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)

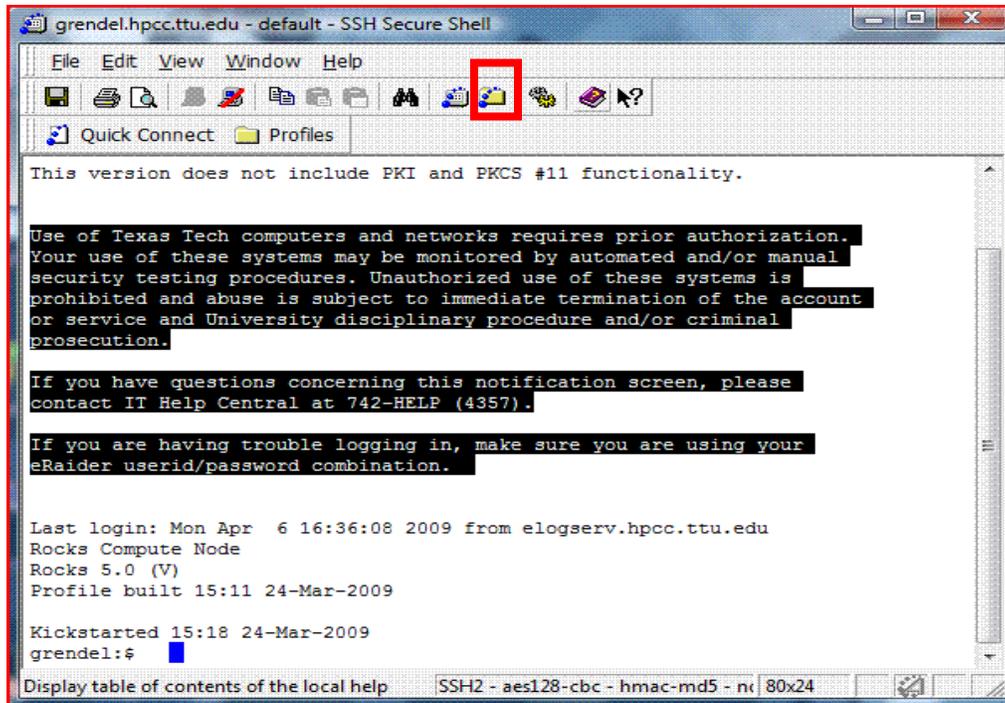


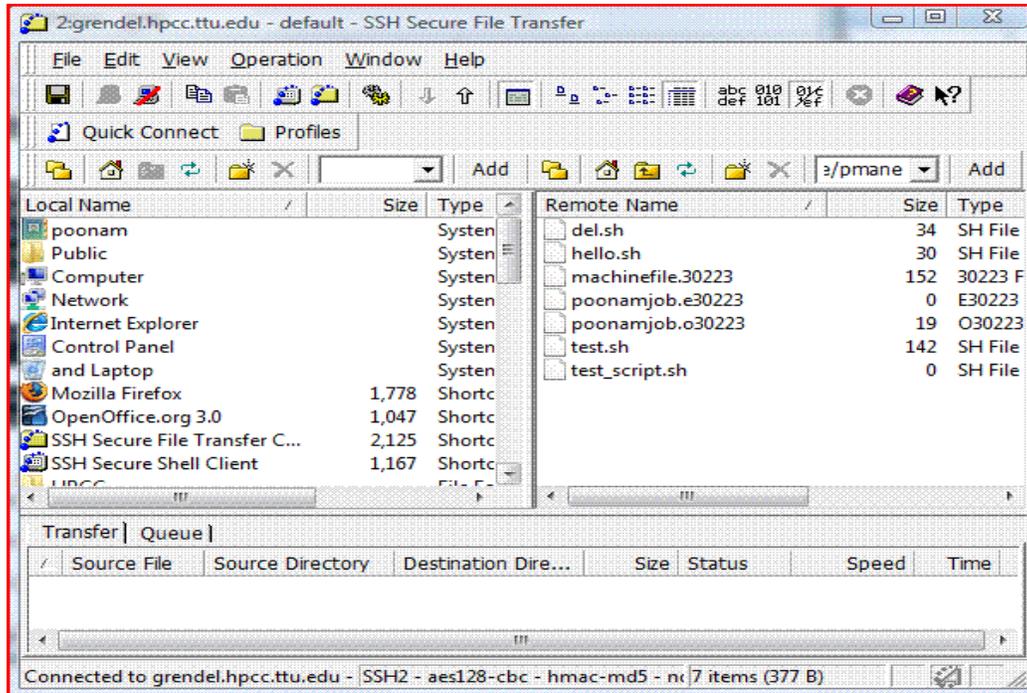
3) Repeat the steps 6-11 from section 2.1. Logging on the first time and save the session for future logins.

#### 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





- 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
- 4) 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

**Last updated: 06/28/2012**

**For Additional Assistance Contact: [hpccsupport@ttu.edu](mailto:hpccsupport@ttu.edu)**

**For Comments/Suggestions on user guide [hpcc@ttu.edu](mailto:hpcc@ttu.edu)**