



Using SSH/Telnet Connections at BGSU

NETWORK SUPPORT DOCUMENTATION
NETDO 12

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This document discusses how to use SSH and Telnet to connect to campus Unix systems, BGSU Unix and BGRResearch, from a Macintosh or Windows-based system connected to the campus network.

This document should be used by clients who want to connect to the campus Unix systems

This document contains

- instructions for connecting with a Macintosh from a campus computer lab
- instructions for copying files from a host computer at BGSU to a Macintosh
- instructions for connecting with Windows XP or Windows 98 from a campus computer lab
- instructions for installing JellyfiSSH using a Macintosh OS X or Macintosh OS 9
- instructions for installing Nifty Telnet SSH using a Macintosh OS 9 or OS X Classic
- instructions for installing Tera Term Pro using Windows XP or Windows 98
- instructions for using built-in telnet programs for the Macintosh OS X, Windows XP and Windows 98
- additional help

The conventions used in this document are

- underline = typed key sequence
- TCBold** = specific names of applications, boxes, buttons, files, folders and menus
- italics* = client-supplied information

Additional sources include

- "Accessing the BGSU Software Server"
<http://www.bgsu.edu/downloads/cio/file9253.pdf>
- Distributed Software Information Page
<http://www.bgsu.edu/its/software/page10377.html>
- JellyfiSSH Home Page
<http://www.arenasoftware.com/grepsoft/>
- Nifty Telnet SSH Information Page
<http://www.lysator.liu.se/~jonasw/freeware/niftyssh/>

Table of Contents

1.0 Introduction	3
2.0 Setting up a Network Connection.....	3
3.0 Using JellyfiSSH with a Macintosh OS X.....	4
3.1 Connecting from a Campus Computer Lab.....	4
3.2 Installing JellyfiSSH.....	5
3.3 Creating a Shortcut.....	5
3.4 Connecting to the host computer with JellyfiSSH.....	7
4.0 Using Nifty Telnet SSH with a Macintosh OS 9 or OS X Classic.....	7
4.1 Installing Nifty Telnet SSH.....	8
4.2 Creating a Shortcut.....	8
4.3 Connecting to the host computer with NiftyTelnet.....	10
4.4 Transferring Files Using SCP (Secure Copy)	11
5.0 Using Tera Term Pro with Windows XP or Windows 98.....	12
5.1 Connecting from a Campus Computer Lab.....	12
5.2 Installing on a PC On Campus.....	12
5.3 Installing on a PC Off Campus	13
5.4 Creating a Shortcut (Windows XP)	13
5.5 Creating a Shortcut (Windows 98)	14
6.0 Built in Methods with Macintosh OS X and Windows XP/98.....	15
6.1 Using Built-in Telnet/SSH with the Macintosh OS X.....	15
6.2 Using Built in Telnet with Windows XP/98.....	16
7.0 Additional Help.....	17

Table of Figures

Figure 2.1 Jacks in a BIC.....	3
Figure 3.1 JellyfiSSH New 3.1.1 Default Setup Window	5
Figure 3.2 Adding a Bookmark	6
Figure 3.3 Preferences Window.....	6
Figure 3.4 Host Identification Alert.....	7
Figure 3.5 SSH Login Window	7
Figure 3.6 Telnet Login Window.....	7
Figure 4.1 New Connection Dialog Box.....	9
Figure 4.2 Telnet Shortcut Dialog Box.....	9
Figure 4.3 Host Identification Alert.....	10
Figure 4.4 SSH Login Window	10
Figure 4.5 SSH Terminal Window	11
Figure 4.6 SCP Copy Window	11
Figure 4.7 SCP Login Window	12
Figure 5.1 Shortcut Properties Dialog Box (Windows XP).....	14
Figure 5.2 Shortcut Properties Dialog Box (Windows 98).....	15
Figure 6.1 Terminal Window.....	16
Figure 6.2 Connecting to Telnet	16
Figure 6.3 Connecting to SSH.....	16
Figure 6.4 Run Dialog Box	17
Figure 6.5 Telnet Window.....	17

1.0 Introduction

All of the large computer systems that serve the BGSU campus can be accessed from a microcomputer with a network connection. Clients must, however, have an account on the system to log in. The Technology Support Center supports applications that create different types of remote connections to these systems: telnet, SSH, tn3270 and POP3 or IMAP4. At BGSU, an SSH or telnet connection can be used to access the campus Unix systems, BGUnix and BGResearch. A tn3270 connection is used to access RADAR (RADAR is not available with a wireless connection). A POP3 or IMAP4 client is used to access BGNet email.

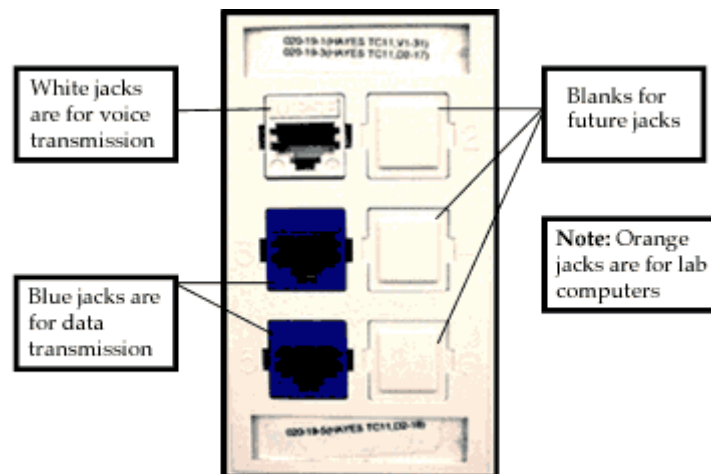
This document discusses supported applications required to set up an SSH or telnet connection from a Macintosh running OS 9 and OS X or from a Windows-based system running Windows XP or Windows 98. SSH (also known as Secure Shell or SSH1) was designed as an alternative to telnet. SSH provides encrypted communication for logging into another computer using the Internet (or another TCP/IP network). SSH2 is another version of secure shell but is even more secure and considered more efficient than SSH. Telnet also allows you to connect to remote host computers over the Internet. Command-line telnet is built into Mac OS X plus Windows XP and Windows 98.

2.0 Setting up a Network Connection

Software that creates a SSH or telnet client is one of the many types of Internet applications that assumes a network is set up and active. All Information Technology Services (ITS) computer lab systems and most microcomputers in campus offices are already connected to the campus network. If your microcomputer on-campus is not already connected to the network, you need to determine if your system is connected to a jack in a BIC (Bowling Green Information Connection) (See Figure 2.1) or your computer can receive a wireless connection. Wireless connections are available in many areas of the campus. Use the following URL for a map of buildings with wireless access:

<http://www.bgsu.edu/its/network/page10298.html>

Figure 2.1 Jacks in a BIC



Using SSH/Telnet Connections at BGSU

For general questions regarding the campus network or information on setting up a wireless connection, check the ITS - Networking site at the following URL:

<http://www.bgsu.edu/its/network/index.html>

If your computer in a campus office has a wired or wireless connection and you are unable to access the campus network, consult the Technology Support Center (TSC) in person at 110 Hayes Hall or by phone at 419-372-0999. You can also report problems using their online form at URL:

<http://www.bgsu.edu/its/tsc/page9500.html>

If you live on campus in one of the residence halls or houses and need help setting up a wired connection, contact the Residential Computing Connection. See URL:

<http://rcc.bgsu.edu>

Using an (ISP) Internet Service Provider, you can connect to the campus network from off campus. Consult the yellow pages of the Bowling Green City telephone directory for Internet Service Providers in this area. Your ISP should provide you with configuration instructions.

3.0 Using JellyfiSSH with a Macintosh OS X

JellyfiSSH 3.1.1 is the supported telnet client used to connect to the campus Unix systems, BGUnix and BGResearch, from a Macintosh running OS X with a network connection. JellyfiSSH 2.1.2 is the supported telnet client for a Macintosh running OS 10.2 or later. One of the reasons JellyfiSSH was selected is because it can not only create telnet connections but can also create secure terminal sessions based on the SSH (Secure Shell) protocol.

Clients who are connecting to University computer systems from outside the campus network (e.g. a personal computer at home) are advised to use the secure connection available in JellyfiSSH. Doing this will make it much more difficult for someone to "sniff" your password and "hack" into the system using information you pass from your home computer to the host computer because that information is now encrypted. While the use of JellyfiSSH's secure connection is not as critical for those who are using a personal computer on the campus network due to its security features, the use of SSH is still strongly encouraged.

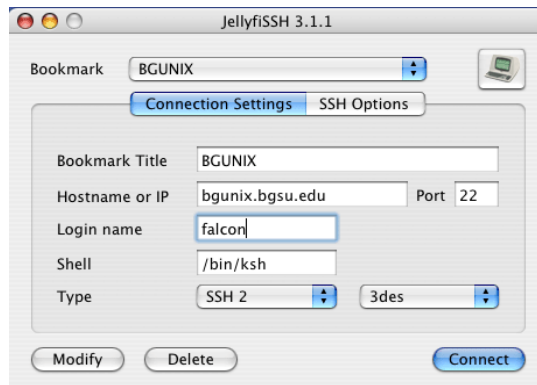
3.1 Connecting from a Campus Computer Lab

JellyfiSSH is installed on all Macintoshes in ITS Computer Labs. There are a number of ways to launch the program. The quickest method is to use the JellyfiSSH icon from the Applications folder.

Put the cursor on the **Applications** icon located in the **Dock** (the bar of icons located on the middle-bottom of the screen), and click once. That will open the **Applications**

window. A list of applications will appear; scroll down until you find **JellyfiSSH** and double click on the icon. That will launch JellyfiSSH and displays a JellyfiSSH 3.1.1 window similar to the one in Figure 3.1. Use the **Bookmark** drop down menu to select the host Unix system you wish to connect with. Select the host Unix system with the type of connection you desire, enter your login name and click on the **Connect** button.

Figure 3.1 JellyfiSSH New 3.1.1 Default Setup Window



An alternate method for launching the application in the labs is:

1. Click once on the **Finder** icon.
2. Click once on the **Applications** icon on the left-hand side of the window.
3. Double click on the **JellyfiSSH** icon.

The same JellyfiSSH window shown in Figure 3.1 will appear. Select the host Unix system with the type of connection you desire, enter your login name and click on the **Connect** button.

If you do not see the name of the Unix system you want to use in the JellyfiSSH 3.1.1 window, click on the "Select..." from the bookmark drop down menu. Type in the shortcut name (e.g. BGUnix (telnet)) and the name of the host Unix system you want to use (e.g. bgunix.bgsu.edu). If you want a telnet connection, change the **Type** drop down menu to "Telnet". If you want an SSH (Secure Shell) connection instead of a telnet connection, change **Type** to either "SSH 1" or "SSH 2". Then click the **Connect** button.

3.2 Installing JellyfiSSH

To obtain JellyfiSSH for a Macintosh running either OS 9 or OS X, clients can get the installer from the JellyfiSSH Home Page. See URL:

<http://www.arenasoftware.com/grepsoft/>

JellyfiSSH version 3.1.3 is available for a Macintosh running OS 10.3 or higher.
JellyfiSSH version 2.1.2 is available for a Macintosh running OS 10.2 or lower:

3.3 Creating a Shortcut

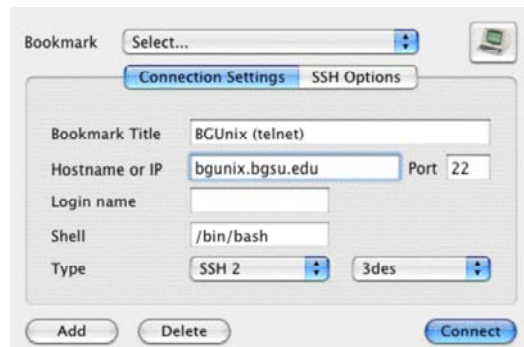
Using SSH/Telnet Connections at BGSU

Creating an alias is a function that allows a client to configure JellyfiSSH to provide a shortcut to a connection. In computer labs on campus, JellyfiSSH will already be configured. Those installing JellyfiSSH on office or personal systems should use the following set of instructions to predefine connections to systems they use on a regular basis:

1. Open JellyfiSSH.
2. Type in a **Bookmark Title** (e.g. BGUNix), the hostname or IP address (e.g. bgunix.bgsu.edu), and click **Add**.

The JellyfiSSH 3.1.1 window is used to define and edit connection specifications. See Figure 3.2 for an illustration.

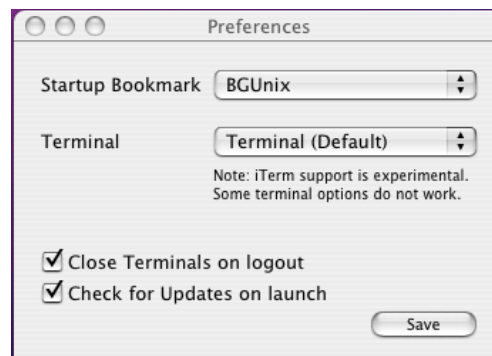
Figure 3.2 Adding a Bookmark



Additionally, it is possible to modify connection information and delete bookmarks. These tasks must be completed from the JellyfiSSH 3.1.1 window as shown in Figure 3.2. Use the **Bookmark** drop down menu to select the bookmark you want to modify or delete. To remove the bookmark completely, click the **Delete** button. Modify the connection information and click the **Modify** button. To make a bookmark the default:

1. Click once on the word **JellyfiSSH** in the toolbar (top left of the screen).
2. Select **Preferences...** and click once.
3. Select the **Startup Bookmark** you wish to be the default from the list. See Figure 3.3 for an illustration.

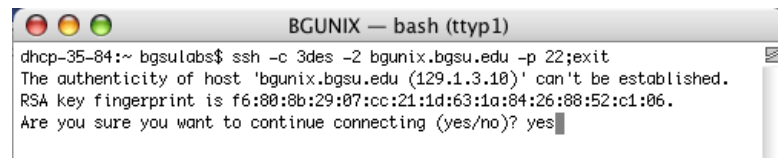
Figure 3.3 Preferences Window



3.4 Connecting to the host computer with JellyfiSSH

The process for logging in will vary slightly depending on the type of connection (telnet or SSH) you specified in your connection definition. The first time you click Connect using SSH, a terminal window will appear with a Host Identification Alert warning message similar to the one shown in Figure 3.4.

Figure 3.4 Host Identification Alert



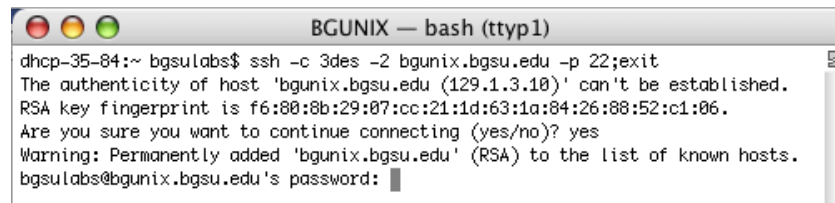
```

BGUNIX — bash (tty1)
dhcp-35-84:~ bgsulabs$ ssh -c 3des -2 bgunix.bgsu.edu -p 22;exit
The authenticity of host 'bgunix.bgsu.edu (129.1.3.10)' can't be established.
RSA key fingerprint is f6:80:8b:29:07:cc:21:1d:63:1a:84:26:88:52:c1:06.
Are you sure you want to continue connecting (yes/no)? yes

```

This warning will occur each time you connect to a new host computer. Type "yes" and press enter. Next, enter your password and press enter as illustrated in Figure 3.5.

Figure 3.5 SSH Login Window



```

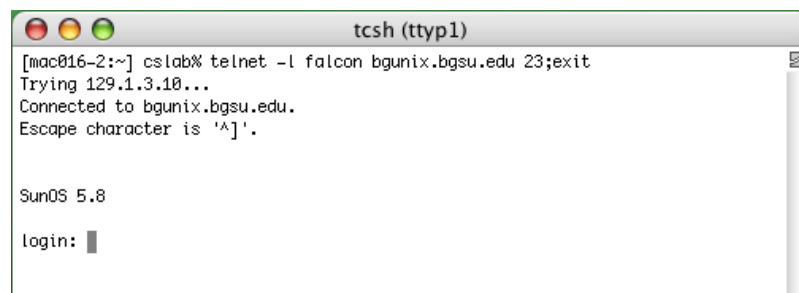
BGUNIX — bash (tty1)
dhcp-35-84:~ bgsulabs$ ssh -c 3des -2 bgunix.bgsu.edu -p 22;exit
The authenticity of host 'bgunix.bgsu.edu (129.1.3.10)' can't be established.
RSA key fingerprint is f6:80:8b:29:07:cc:21:1d:63:1a:84:26:88:52:c1:06.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'bgunix.bgsu.edu' (RSA) to the list of known hosts.
bgsulabs@bgunix.bgsu.edu's password:

```

You are now logged into the BGUnix system.

A telnet connection is similar to SSH but it is not as secure. After you click Connect a terminal window will appear that is similar to the one shown in Figure 3.6, enter your user name, and press enter. Next, enter your password and press enter.

Figure 3.6 Telnet Login Window



```

tssh (tty1)
[mac016-2:~] cslab% telnet -l falcon bgunix.bgsu.edu 23;exit
Trying 129.1.3.10...
Connected to bgunix.bgsu.edu.
Escape character is '^]'.

SunOS 5.8

login:

```

4.0 Using Nifty Telnet SSH with a Macintosh OS 9 or OS X Classic

Nifty Telnet 1.1 SSH r3 is the supported telnet client used to connect to the campus Unix systems, BGUnix and BGResearch from a Macintosh running OS 9 or a Macintosh running OS X in classic mode with a network connection. One of the reasons Nifty

Using SSH/Telnet Connections at BGSU

Telnet is used because it can create telnet connections and secure terminal sessions based on the SSH1 (Secure Shell) protocol. It also includes a secure copy feature that can be used in place of an FTP client for uploading and downloading files.

Clients who are connecting to University computer systems from outside the campus network (e.g. a personal computer at home) are advised to use the secure connection and secure copy features available in Nifty Telnet. Doing this will make it much more difficult for someone to "sniff" your password and "hack" into the system using information you pass from your home computer to the host computer because that information is now encrypted. While the use of Nifty Telnet's secure connection and secure copy features are not as critical for those who are using a personal computer on the campus network due to its security features, the use of SSH is still strongly encouraged.

4.1 Installing Nifty Telnet SSH

To obtain Nifty Telnet SSH for a Macintosh, clients can get the installer from the Nifty Telnet Home Page. See URL:

<http://www.lysator.liu.se/~jonasw/freeware/niftyssh/>

But, in order to install Nifty Telnet SSH on a computer running OS 9, you will need to have StuffitExpander 6.0 installed because it can unpack CompactPro formatted archives. If you need this software, you can get it from the StuffIt Home Page at URL:


<http://www.stuffit.com/expander/index.html>

If you are using a Macintosh running OS X, when the Nifty Telnet program is launched the computer will start up in Classic mode. Computers running OS X already have StuffIt install so you do not need to download anything other than Nifty Telnet.

4.2 Creating a Shortcut

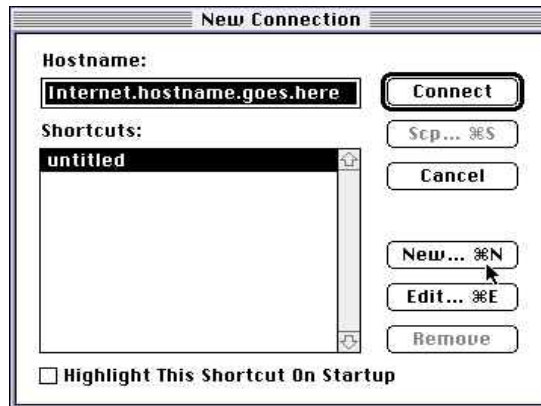
Creating an alias is a function that allows a client to configure NiftyTelnet to provide a shortcut to a connection. Those installing NiftyTelnet on office or personal systems should use the following set of instructions to predefine connections to systems they use on a regular basis:



1. Find the application icon  in the NiftyTelnet folder and double-click on it to launch NiftyTelnet.
2. If the New Connection dialog box is not displayed, go to the **File menu** and select **New Connection**. It should appear automatically the first time you launch the program.

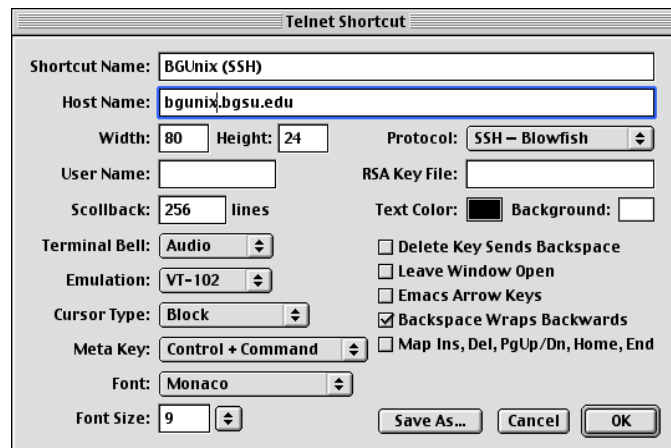
The "New Connection" dialog box is used to define and edit connection specifications. See Figure 4.1 for an illustration.

Figure 4.1 New Connection Dialog Box



Click on the **New** button in the New Connection window. A Telnet Shortcut Dialog Box as shown in Figure 4.2 will be displayed.

Figure 4.2 Telnet Shortcut Dialog Box



When predefining a connection,

1. Enter a unique **Shortcut Name**
2. Enter the full pathname of the corresponding **Host Name**
3. Choose the **Protocol** you wish to use. For Telnet connections, select Telnet. For SSH (Secure Shell) connections which are recommended, select "SSH - Blowfish". "SSH - 3DES" is the most secure of the SSH options but is slower than "SSH - Blowfish".
4. Enter your **User Name** (optional)
5. The default terminal **Emulation** setting, VT 102, is fine

When finished, click **OK**. The connection you just defined will now be listed in your New Connection window.

Additionally, it is possible to change connection information and remove connections. These tasks must be completed from the New Connection window. Make sure the name

Using SSH/Telnet Connections at BGSU

of the connection to be changed or removed is highlighted. Then click on **Edit** or **Remove** before opening the connection. To make a connection the default, click on “Highlight This Shortcut On Startup.”

4.3 Connecting to the host computer with NiftyTelnet

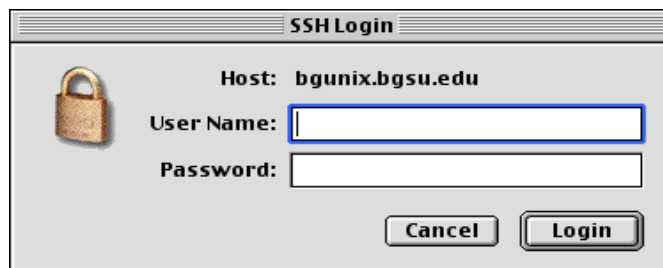
The process for logging in will vary slightly depending on the type of connection (telnet or SSH) you specified in your connection definition. The first time you click Connect on the New Connection window for an SSH (Secure Shell) connection, you will get a Host Identification Alert warning message similar to the one shown in Figure 4.3.

Figure 4.3 Host Identification Alert



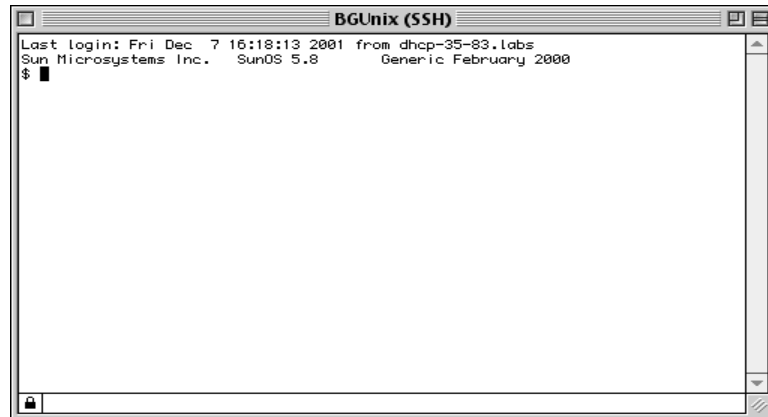
Click on “Accept & Save”. When an SSH Login window appears that is similar to the one shown in Figure 4.4, enter your User Name (if it is not already displayed) and password. Then click on the **Login** button.

Figure 4.4 SSH Login Window



At this point, you will see an SSH terminal window with a system prompt indicating that you are now logged into the host you specified. A client at BGSU logging into BGUnix would see a terminal window that looked like the one in Figure 4.5.

Figure 4.5 SSH Terminal Window



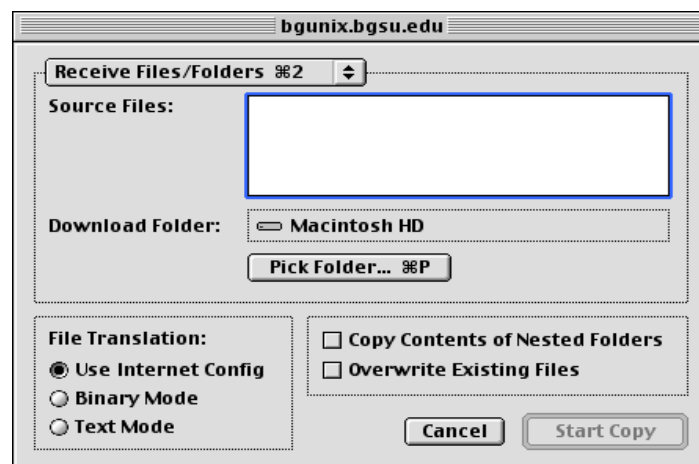
For telnet connections, you will not see a Host Identification Alert window.

4.4 Transferring Files Using SCP (Secure Copy)

The secure copy feature of NiftyTelnet can be used as a replacement for FTP programs such as Fetch. It provides basic security during file transfers. When using it, you provide all the information about the file transfer before you log into the host computer.

1. Under the **File Menu**, select **New Connection** to display the New Connection window.
2. Click on the **Scp** button.
3. When the copy window comes up, specify the type of file transfer you wish to perform by selecting **Send Files/Folders** or **Receive Files/Folders**. Send is used for downloading files from your Mac; receive is used for uploading files to your Mac. The copy window with Receive Files/Folders specified is shown in Figure 4.5.

Figure 4.6 SCP Copy Window

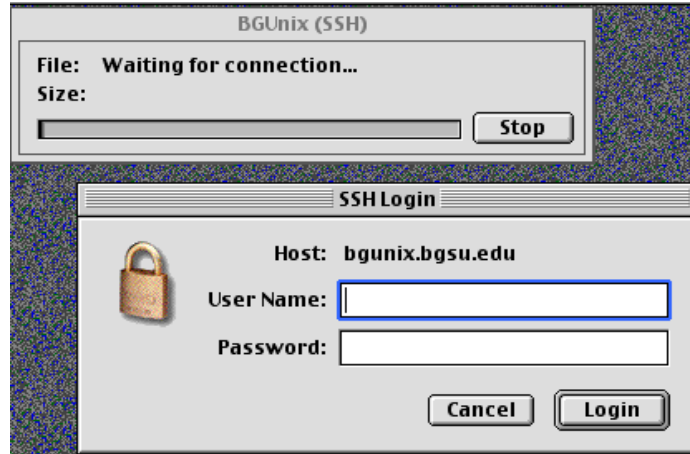


4. Fill in the definitions for your source and destination files or folders.
5. Click on Start Copy.

Using SSH/Telnet Connections at BGSU

An SCP Login Window similar to the one in Figure 4.7 will appear. Enter your User Name (if it is not already displayed) and your password. When your login is successful, your files will be transferred.

Figure 4.7 SCP Login Window



5.0 Using Tera Term Pro with Windows XP or Windows 98

Although Windows XP and Windows 98 comes with a built-in telnet client, the Technology Support Center suggests installing Tera Term Pro for telnet functions because it gives better support for printing.

5.1 Connecting from a Campus Computer Lab

There are several ways to connect to BGUnix from a campus computer lab using Windows XP or Windows 98. The quickest method is to use the Connections menu on the Start Menu.

1. Click on the **Start** button in the lower left-hand corner of the screen.
2. Slide up to the **Connections** menu and click on BGUNIX to launch the program.

An alternate method for launching the application is:

1. Click on the **Start** button in the lower left-hand corner of the screen.
2. Slide to the **Programs** menu and slide to **Internet**.
3. Slide to Tera Term Pro and click on **Tera Term Pro** to launch the program.
4. Type *hostname* in the dialog box and click **Okay** (e.g., bgunix.bgsu.edu).
5. Enter your user name and press enter.
6. Enter your password and press enter

5.2 Installing on a PC On Campus

On campus clients can obtain Tera Term Pro from the BGSU Software Server. To access the server, clients should enter the following address in their favorite web browser:

<http://software.bgsu.edu>

Clients that are unfamiliar with the BGSU Software Server can consult the "Accessing the BGSU Software Servers" document available from the following URL:

<http://www.bgsu.edu/downloads/cio/file9253.pdf>

5.3 Installing on a PC Off Campus

To obtain Tera Term Pro off campus, clients can get the installer on the Anti-Virus/Internet CD available for checkout at the Jerome Library, the Science Library and the Fireland Library. See URL:

<http://www.bgsu.edu/its/software/page11888.html>

Tera Term Pro for Windows XP or Windows 98 can also be obtained from the Web at the Tera Term Home Page:

<http://hp.vector.co.jp/authors/VA002416/teraterm.html>

There are also other sites that can be used to download Tera Term Pro. Most sites will offer instructions for downloading programs.

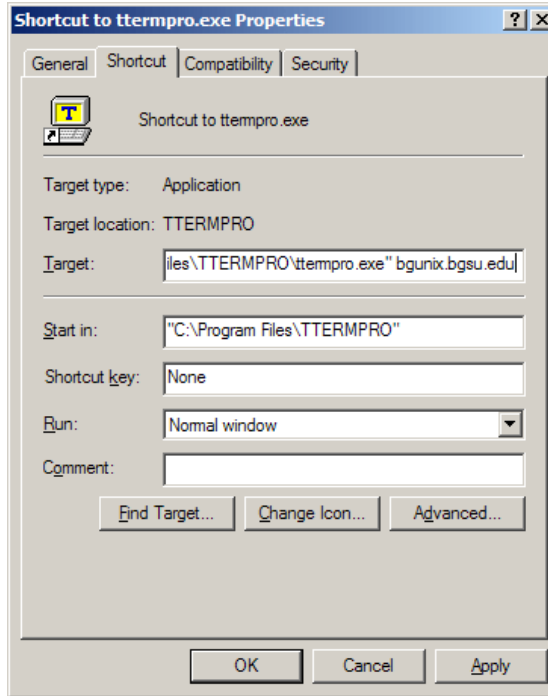
5.4 Creating a Shortcut (Windows XP)

Creating an alias is an optional function that allows a client to configure Tera Term Pro to provide a shortcut to a connection. In computer labs on campus, Tera Term Pro will already be configured. Those installing Tera Term Pro on office or personal systems should use the following set of instructions to predefine connections to systems they use on a regular basis:

1. Double-click on the **My Computer** icon.
2. Double-click on the **Local Disk (C:)** folder.
3. Double-click on the **WINDOWS** folder.
4. Double-click on the **Start Menu** folder.
5. Pull down the **File** menu to **New** and select **Folder**.
6. Click on the name of the folder and type Connections.
7. Double-click on the **Connections** folder. Allow this folder to remain open.
8. Find the Tera Term Pro executable file or **ttermpro.exe**. Most often this file can be located within C:/Program Files/Telnet or C:\Program Files\Ttermpro. If the file is not in one of these locations, use the Find tool to search for ttermpro.exe.
9. Right click the Tera Term Pro executable file or **ttermpro.exe** and select **Create Shortcut** from the menu displayed.
10. Drag the newly created **Shortcut** icon into the **Connections** folder.
11. Right click on the **Shortcut** icon and select **Properties**.
12. On the Shortcut window, locate the text in the Target box. Put your cursor at the end of the text string, insert a space, and add the host name (e.g. bgunix.bgsu.edu). See Figure 5.1.
13. When finished, click on the **OK** button.

14. Replace the name of the Shortcut icon with the system name associated with that connection.

Figure 5.1 Shortcut Properties Dialog Box (Windows XP)



Note: As in Figure 5.1, the text previously in the text box should be in quotations; the connection address should not be in quotations and a space should separate the existing text and the connection address.

To make additional shortcuts it is possible to copy and paste the initial shortcut and change the properties.

5.5 Creating a Shortcut (Windows 98)

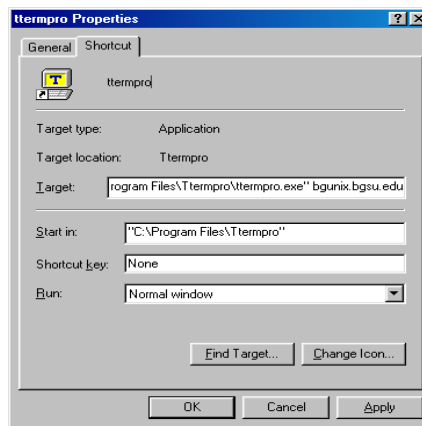
Creating an alias is an optional function that allows a client to configure Tera Term Pro to provide a shortcut to a connection. Those installing Tera Term Pro on office or personal systems should use the following set of instructions to predefine connections to systems they use on a regular basis:

1. Double-click on the **Hard Drive** icon.
2. Double-click on the **C:** drive folder.
3. Double-click on the **Windows** folder (click on 'Show Files' in Win 98).
4. Double-click on the **Start Menu** folder.
5. Pull down the **File** menu to **New** and select **Folder**.
6. Click on the name of the folder and type Connections.
7. Double-click on the **Connections** folder. Allow this folder to remain open.
8. Find the Tera Term Pro executable file or **ttermpro.exe**. Most often this file can be located within C:/Program Files/Telnet or C:\Program Files\Ttermpro. If

the file is not in one of these locations, use the Find tool to search for ttermpro.exe.

9. Right click the Tera Term Pro executable file or **ttermpro.exe** and select **Create Shortcut** from the menu displayed.
10. Drag the newly created **Shortcut** icon into the **Connections** folder.
11. Right click on the **Shortcut** icon and select **Properties**.
12. On the Shortcut window, locate the text in the Target box. Put your cursor at the end of the text string, insert a space, and add the host name (e.g. bgunix.bgsu.edu). See Figure 5.2.
13. When finished, click on the **OK** button.
14. Replace the name of the Shortcut icon with the system name associated with that connection.

Figure 5.2 Shortcut Properties Dialog Box (Windows 98)



Note: As in Figure 5.2, the text previously in the text box should be in quotations; the connection address should not be in quotations and a space should separate the existing text and the connection address.

To make additional shortcuts it is possible to copy and paste the initial shortcut and change the properties.

6.0 Built in Methods with Macintosh OS X and Windows XP/98

Macintosh OS X, Windows XP and Windows 98 come with a built-in telnet client. Using these built in methods is useful for quick connection needs. Programs like Tera Term Pro are recommended for long time use. The built in method for Windows XP or Windows 98 is not a secure connection. If you are connecting from a computer outside of the campus network, it is highly recommended that you use one of the programs listed earlier in this document (JellyfishSSH, Nifty Telnet, or Tera Term Pro).

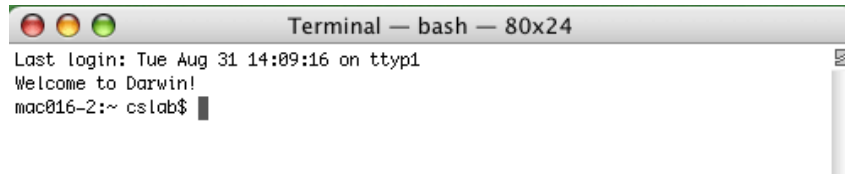
6.1 Using Built-in Telnet/SSH with the Macintosh OS X

Put the cursor on the **Applications** icon located in the **Dock** (the bar of icons located on the middle-bottom of the screen), click once. That will open the **Applications** window. A list of applications will appear, scroll down until you find Utilities folder and double

Using SSH/Telnet Connections at BGSU

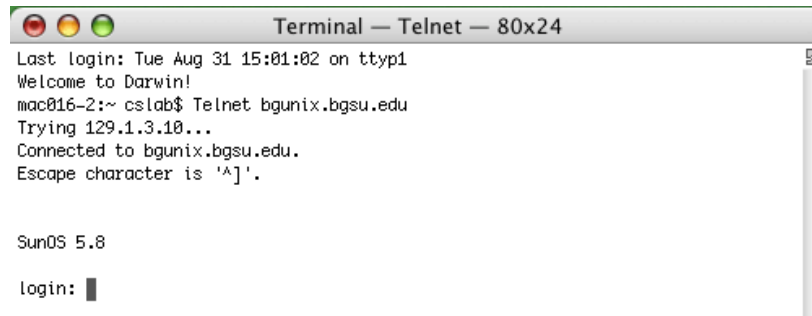
click on the folder. This will open the **Utilities** folder, scroll down until you find **Terminal** and double click on the icon. That will launch Terminal and displays a Terminal window similar to the one in Figure 6.1.

Figure 6.1 Terminal Window



In the Terminal window, type Telnet *hostname* (e.g. Telnet bgunix.bgsu.edu) as shown in Figure 6.2. (Note: remember to capitalize the “T” in Telnet otherwise it will not work).

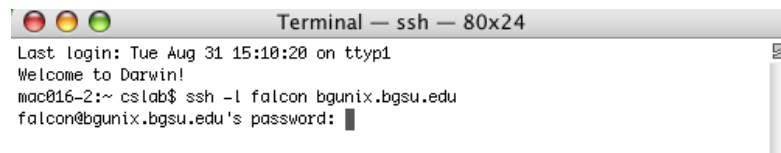
Figure 6.2 Connecting to Telnet



Next, type in your user name and press enter. Type in your password and press enter.

If you want a SSH shell type ssh -l *user_name hostname* (e.g. ssh -l falcon bgunix.bgsu.edu) as shown in Figure 6.3.

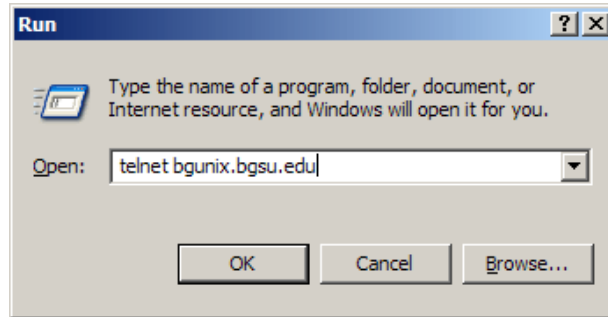
Figure 6.3 Connecting to SSH



6.2 Using Built in Telnet with Windows XP/98

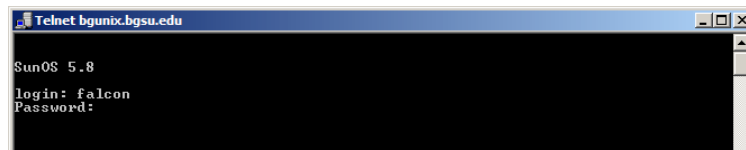
Windows has a built-in command line telnet. Using the built-in Windows telnet is extremely useful when you need to connect for a short period of time. However, this connection is not secure and not recommended for use outside of the campus network. The application can be launched by clicking on the **Start** button in the lower left-hand corner of the screen. Slide up to **Run** and click once. This will open the Run dialog box. Type in telnet *hostname* (e.g. telnet bgunix.bgsu.edu) as shown in Figure 7.4 and click **OK**.

Figure 6.4 Run Dialog Box



This will open a new window similar to the one shown in Figure 6.5. Enter your user name and press enter. Enter your password and press enter.

Figure 6.5 Telnet Window



7.0 Additional Help

For questions associated with BGSU hardware, software, network connections, BGNet accounts, class accounts or other computer accounts, clients can consult the TSC Self-Help pages at URL:

<http://www.bgsu.edu/its/tsc/self-help/>

Clients can also contact the Technology Support Center (TSC) in person at Hayes Hall, room 110, or by phone at 419-372-0999. Problems can be also reported to the TSC by using the TSC Online Submission form at URL:

<http://www.bgsu.edu/its/tsc/page9500.html>

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