



# Java SSH

## User Guide

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## Overview

SSH (Secure Shell) is a secure replacement for remote login and file transfer programs like telnet, rsh, and ftp, which transmit data in clear, human-readable text. SSH uses a public-key authentication method to establish an encrypted and secure connection from the user's machine to the remote PBX. When the secure connection is established, the username, password and all other information is sent over this secure connection. This module is used primarily for accessing the Linux CLI (Command Line Interface) directly through your web browser via a JAVA SSH client. Please note most tasks should be handled through the PBX user interface.

## Logging In

- Log into the Java SSH module and you should see a screen like this.

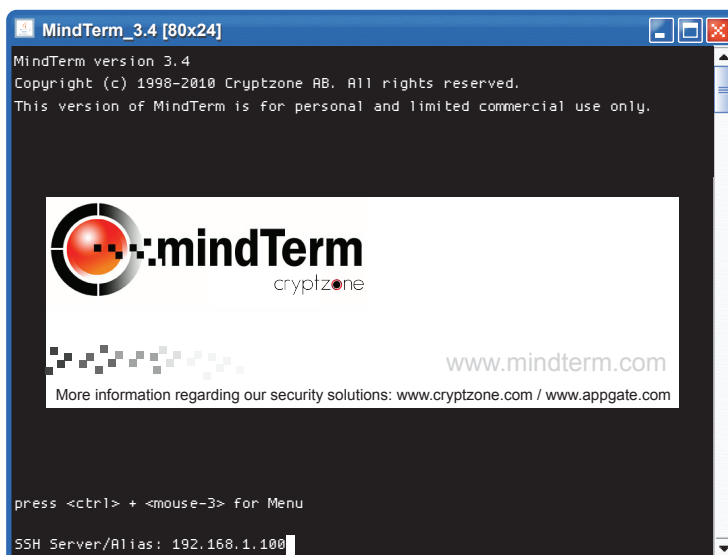
### Java SSH

If necessary re-enter the main user and password. Once the applet has opened enter the IP address of your PBX. You will then connect to the FreePBX server. You can then login as 'root' or 'asterisk', or whatever user you have created.

Within about 30 seconds a separate window will open on your desktop. A prompt will say something like:

SSH Server/Alias: 192.168.1.10 (should show your servers IP address)

At this point you can hit the "Enter" key to log into the PBX. You will then be prompted for your SSH username and password. (On some systems you may have to enter your GUI user name and password prior to the JAVA SSH window opening).



## Java SSH Features

- **Cross-Platform Support**- Java SSH works on all common operating systems: Linux, Windows, Mac OS X, Solaris and most Java environments.
- **Encryption of All Traffic**- Encryption is provided by the Java SSH software.
- **100 % Java Based**- Most Java enabled web browsers can be used and serve as the means to get the Java SSH client.
- **File Operations**- The JAVA SSH menu has many file operations. By default most will be disabled and not provide access to your local machine. Copy and paste may work between terminal windows, but probably not between the terminal and your local machine. The easiest way to use the additional menu features is to use keyboard shortcuts when available.

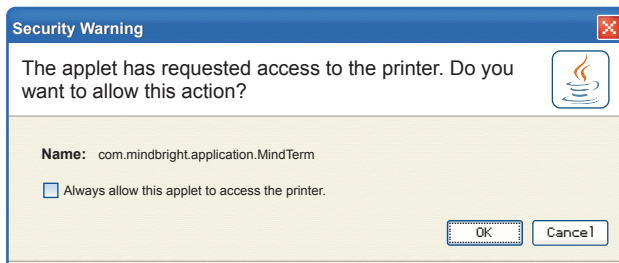
## Java SSH Menus

- **File Menu**

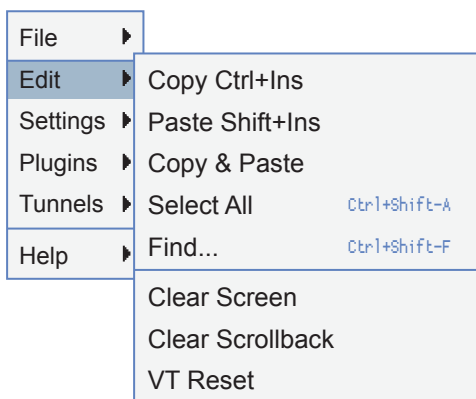
File ▶	New Terminal	Ctrl+Shift-M
Edit ▶	Clone Terminal	Ctrl+Shift-O
Settings ▶	Connect...	Ctrl+Shift-C
Plugins ▶	Disconnect	
Tunnels ▶	Load Settings...	
Help ▶	Save Settings	Ctrl+Shift-S
	Save Settings As...	
	Create Keypair...	
	Edit/Convert Keypair...	
	Print screen...	
	Print buffer...	
	<input type="checkbox"/> Capture To File...	Ctrl+Shift-E
	Send ASCII File...	Ctrl+Shift-X
	Close	
	Exit	

- **Clone Terminal**- This will create a new Java SSH window with the exact same settings as the window it's created from. If the window contains a connected session, the new window will be automatically logged in to the same SSH server. The cloned window will be a new session channel running a shell using the same connection to the server. In other words, additional authentication will not be required.

- **Disconnect**- This forces the current session to be disconnected. Note that this will cause all tunnels to be closed and the shell to be abandoned without logging out. The preferred way to disconnect is to logout in the shell.
- **Create Keypair..- (Not Enabled)**
- **Edit/Convert Keypair...- (Not Enabled)**
- **Print Screen...**- Will print the current screen to your default printer.

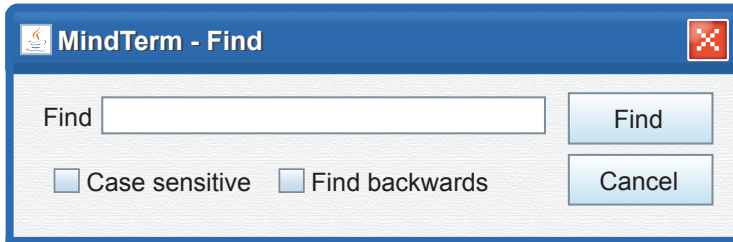


- **Print Buffer...**- Will print the SSH buffer to your printer.
  - **Capture To File...- (Not Enabled)**
  - **Send ASCII File...- (Not Enabled)**
  - **Close**- This closes the current window. Note that when closing a window without logging out, you are aborting the SSH connection abnormally. It's advisable to logout in the shell before closing/exiting Java SSH.
  - **Exit**- This closes all windows and exits Java SSH. Note that when closing a window without logging out, you are aborting the SSH connection abnormally. It's advisable to logout in the shell before closing/exiting Java SSH.
- **Edit Menu**- Please note that on most systems you will be able to copy and paste between different Java SSH consoles, but not directly with your local machine.

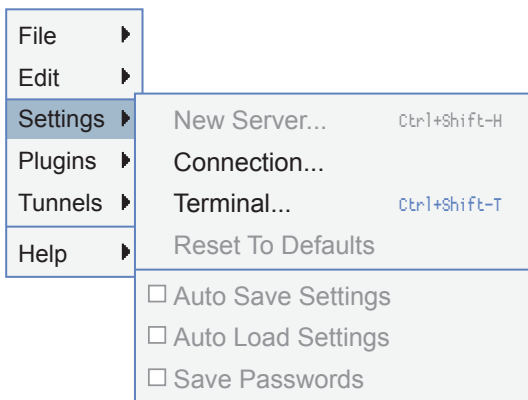


- **Copy (Ctrl+Ins)**- This copies the selected text to the clipboard. Click and hold down the left mouse button while dragging the mouse over the area to select. Let go of the mouse button when the desired text is selected.
- **Paste (Shift+Ins)**- This pastes the contents of the clipboard to the terminal as input (i.e. This would be the same as if someone typed from keyboard).

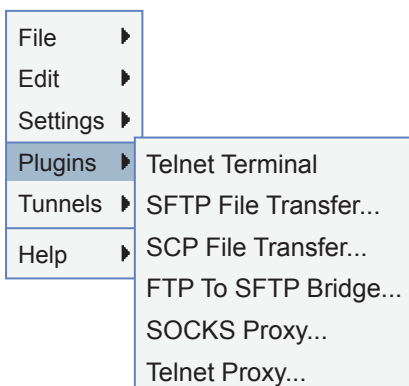
- **Copy & Paste**- This does a copy, followed by a paste.
- **Select All**- This selects all content in the scrollback buffer and in the terminal.
- **Find...**- This displays the “Find” dialog, from which the scrollback buffer and terminal contents can be searched for words. The search can be done case-sensitive or case-insensitive. Each word found is highlighted. An alert is sounded when no more matches are found.



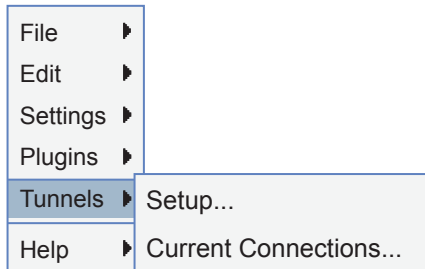
- **Clear Screen**- This clears the screen and sets the cursor position to the upper left corner.
- **Clear Scrollback**- This clears the contents of the scrollback buffer.
- **VT Reset**- This resets the terminal settings to default (i.e. Clears line-draw graphics mode, which might be mistakenly set by displaying a binary file).
- **Settings Menu**- Once logged in, we can generate a report with the following filters.



- **Plugins Menu**- (Limited functionality, not enabled for local machine access)



- **Tunnels Menu-** (Not Enabled)



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### (b) Bankruptcy

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