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Setting Up an SSH Console

SSH stands for Secure SHell, and is a secure method to connect to a remote computer over a network. There are many advantages to using an SSH console rather than say the shell facility in the FreeNAS GUI.

The SSH console is a window that has a scrolling function which means you can go back and view the output in the console. You can also select large bodies of text and copy and paste them. This can be particularly useful when trying to get help from someone as they need to see what you have done. It is also useful when compiling data (i.e. SMART test data).

An SSH console is also very secure in two ways. Firstly it can be configured to require a Public/Private key and a password before you can log in to the session and the server. Secondly the connection between the server and the client is encrypted. This means any information that goes between the two cannot be read directly.

Configure SSH in FreeNAS

Specify SSH Public Key For a User

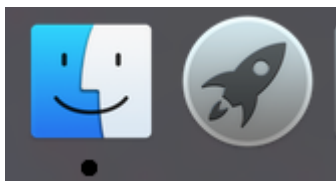
Setting up PuTTY in Windows

Modern operating systems ship with an SSH client installed. Unfortunately, Windows is still not a modern operating system in this regard, so a third-party client will need to be used. Popular clients include [Bitvise](#) and [PuTTY](#).

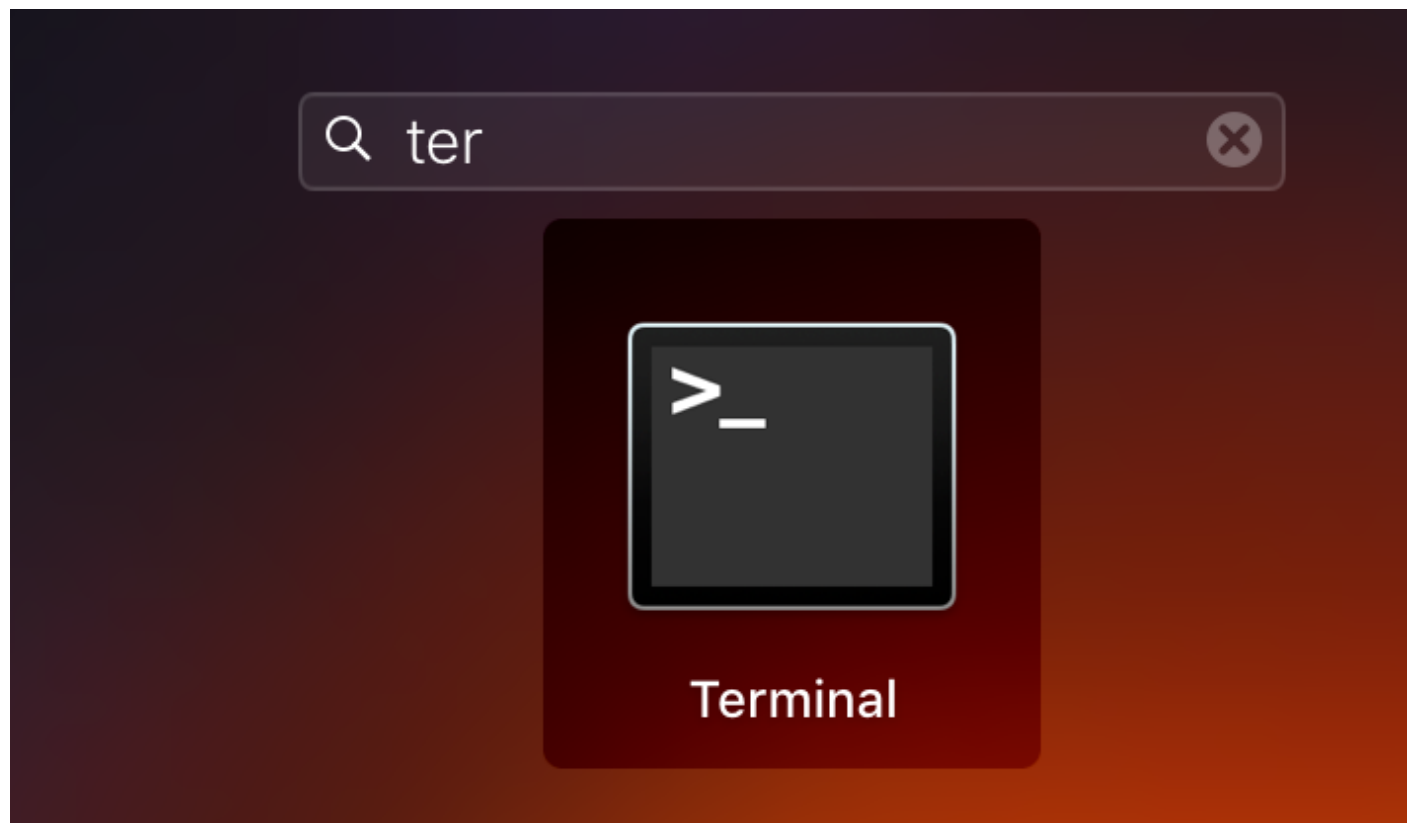
Public Key Authentication in PuTTY

Using SSH on a Mac

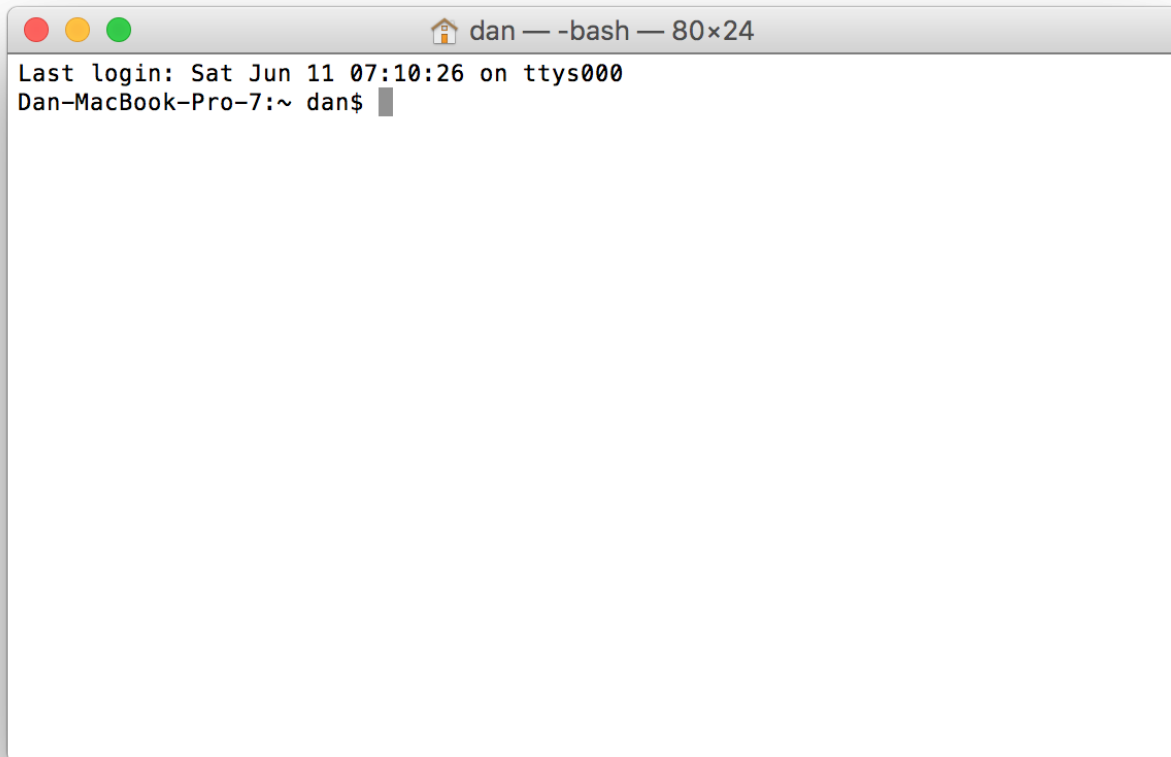
Mac OS X includes an SSH client, but it must be used from the command line. To use it, you'll need to open a terminal window. Start by clicking the launchpad button in your dock (it looks like a rocket):



Begin typing "Terminal" into the search bar at the top, until you see the Terminal icon below:



Then click on the Terminal icon. You'll see a window like this:



To connect to a server using SSH, you can simply type

```
ssh user@host
```

Where “user” and “host” are the username and hostname, respectively, that you want to connect to. For example,

```
ssh root@freenas
```

Or you can use an IP address:

```
ssh root@192.168.0.5
```

If you have required public key authentication on your FreeNAS server, you'll need to generate a keypair. To do this, type

```
ssh-keygen -t rsa
```

...and simply accept the defaults. The result will look like this:

```

Dan-MacBook-Pro-7:~ dan$ ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/Users/dan/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /Users/dan/.ssh/id_rsa.
Your public key has been saved in /Users/dan/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:ZB0ZFqEWJJuCgEWIyFd/Thk5K0uncH8LT06w0CSdRdk dan@Dan-MacBook-Pro-7.local
The key's randomart image is:
+---[RSA 2048]---+
|+=+ .. +*.B=      |
|=. o o+o E+.      |
|  . . +oB+o       |
|    ..o=+         |
|    ..+ .S.       |
|    .oo..o        |
|    oo+o o        |
|    ...*.         |
|    .+.          |
+-----[SHA256]-----+
Dan-MacBook-Pro-7:~ dan$ █

```

The system will prompt you for a passphrase; this is optional. If you enter a passphrase, you will need to enter it every time you use this keypair (i.e., every time you use ssh). If you leave the passphrase blank, you won't need to enter it when you connect to a remote server, but neither will a thief who manages to steal your computer. You'll now need to view your public key, to enter it in the FreeNAS configuration. To do that, type

```
cat .ssh/id_rsa.pub
```

The result will look like this:

```

ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQACxoFuJ2Px8sIA0zla1FXjnG+af2kRNhj/FcQ5nh0n6F2LepgX
f/4SQFjx5BwAD88H6/06lTaUAqprxKS4m33SKN7poH6RaeIfbJXwjJ/o0Cx0QbugGAeMKjH0Bg4fsHw
vqGLT7o0lcQ0ubmGBZlSx9R9IFNmDLAru+Z5gjuAwKCXGw2dxVqbq2IwB3jEoA3bbo8gy6Dso5wV75
0EC+dYlB/lQrxW/uscgPjpi1XCFVuWtajyz9jujakR1uHuRRphsp56GXVTovwM3P6h52ADDhr5vkfsk
GKgMETj940x5+MFbmBvC9iIMIErGLfWIAQY+8NjosQYfieU5U48oDmDb dan@Dan-MacBook-
Pro-7.local

```

Copy this, all on line line, and paste it into your FreeNAS configuration.

Using SSH on Linux

SSH on Linux works just like SSH on a Mac. Follow the instructions above.

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