

# Getting set up with Sequel Pro for Mac

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ICE-D tutorial SQL for Mac

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In this set up tutorial, we will be downloading Sequel Pro, generating a connection from your desktop to the database via an SSH tunnel, and showing users what it looks like when you are connected to ICE-D!



We will be using SSH ("secure shell") through an intermediate gateway host to talk to the database server. We will be using SSH "key-pair" authentication, which requires that you generate a code key on your machine and send it to me to be installed on the gateway host. Once the key pair is installed on both machines they can make a secure connection without the need to enter a password each time. Thus, the connection is machine-specific...a key pair installed on your laptop will not also work on your desktop.

**Step 1.** Begin the tutorial by navigating over to <http://www.sequelpro.com/> and download the latest version. There might be other clients available but this is the one that Greg Balco and others with Mac computers use.

**Step 2.** To make a connection with your personal computer and the database, we will be generating an SSH tunnel to establish that connection. Since you are using a Mac, SSH is already installed so all you need to do is generate the key pair (unlike with Windows, where Windows users are required to download SSH generating software from online).

Let's generate that key pair. Open a terminal window and type the following at the prompt:

```
ssh-keygen
```

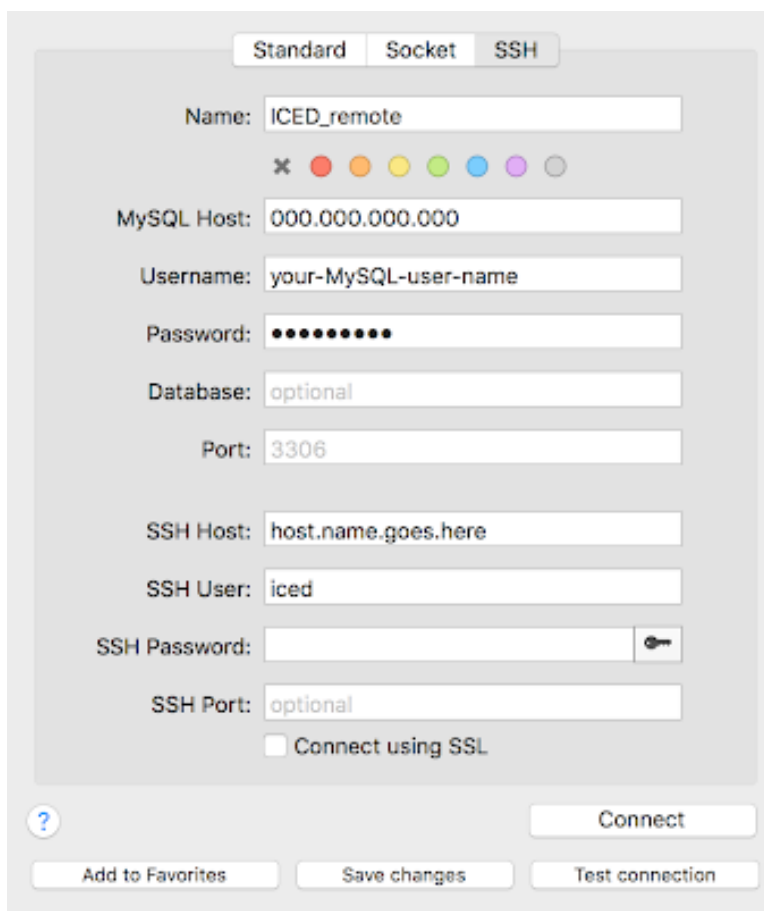
Hit return to accept the default file location. Then hit return again to store it without a passphrase (usually the only reason you would need a passphrase would be if you were using a shared computer). It will spit back some gibberish indicating that the key has been generated.

Now type the following:

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

This will spit back a long code string with 'ssh-rsa' at the beginning and the name of your computer at the end. Copy the entire string, paste it into an email, and send it to Greg (balcs@bgc.org).

**Step 3.** Now that we've dealt with SSH keys, open Sequel Pro to connect to the database. A window with connection details will open. Click the "+" icon at lower left to create a new named connection. Give it a sensible name (e.g., ICED\_remote). Select the 'SSH' tab. The connection details should look like the following:



The screenshot shows the 'SSH' tab of the Sequel Pro connection configuration window. The window has three tabs: 'Standard', 'Socket', and 'SSH'. The 'SSH' tab is selected. The configuration fields are as follows:

- Name: ICED\_remote
- MySQL Host: 000.000.000.000
- Username: your-MySQL-user-name
- Password: [masked with dots]
- Database: optional
- Port: 3306
- SSH Host: host.name.goes.here
- SSH User: iced
- SSH Password: [empty field with a toggle icon]
- SSH Port: optional
- Connect using SSL

At the bottom, there are four buttons: a help icon (?), 'Add to Favorites', 'Save changes', and 'Connect'. Below these are three more buttons: 'Add to Favorites', 'Save changes', and 'Test connection'.

Ask Greg (balcs@bgc.org for (i) the correct IP address to enter in the 'MySQL Host' field and (ii) the correct host name for the "SSH Host" field. The "Username" and "Password" fields are for your login on the ICE-D MySQL server. Talk to Greg about getting this set up if you haven't already.

The Databases field can be left empty. The "SSH User" field pertains to your username on the SSH gateway machine, which is "iced." Leave "SSH password" blank – no SSH password is required because a key pair has been installed on your machine and the gateway server. Hit 'Save changes' to save the connection parameters for future use.

**Step 4.** Now try either 'Connect' or 'Test connection' to see if it works. In theory, everything should work. Please email Greg (balcs@bgc.org) if you have any issues with the set up.

Thanks for following along!