

Connecting with PuTTY

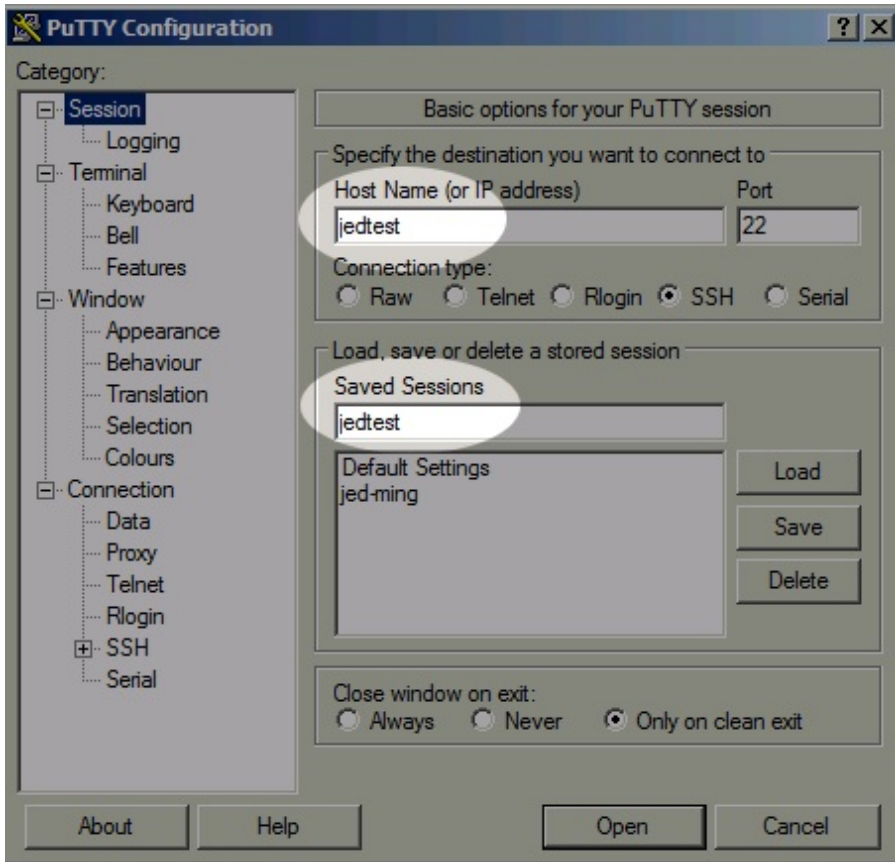
Goal: Using PuTTY on Windows to connect to LANforge Linux servers.

Lots of tasks, like scripting, can be done over SSH from your Windows desktop. Here are a few steps to help you customize your PuTTY terminal to work faster.

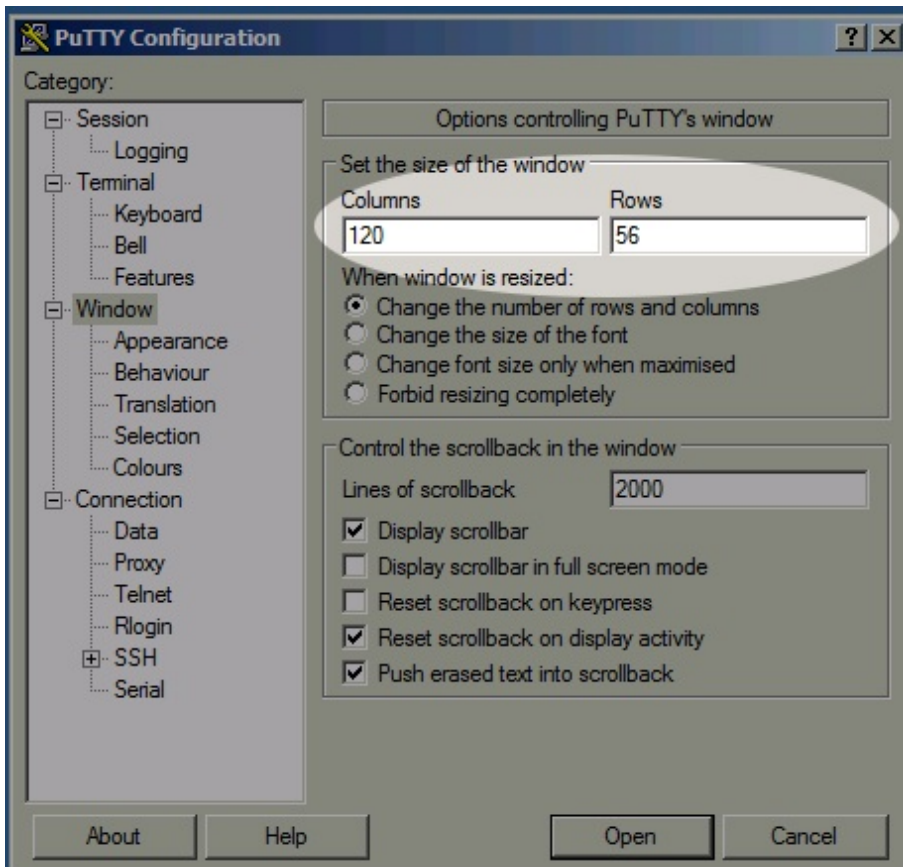


1. Configuring a PuTTY Session

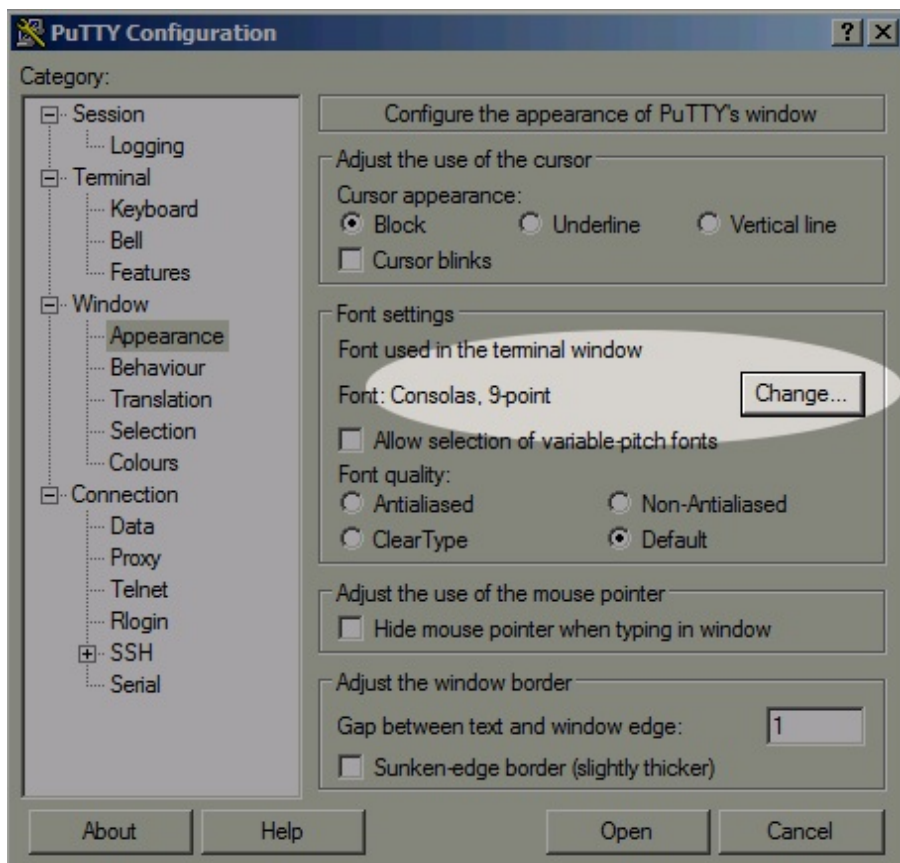
- A. When you double click on the PuTTY icon and it launches, you can start customizing your session preferences. We'll name this session *jedtest*



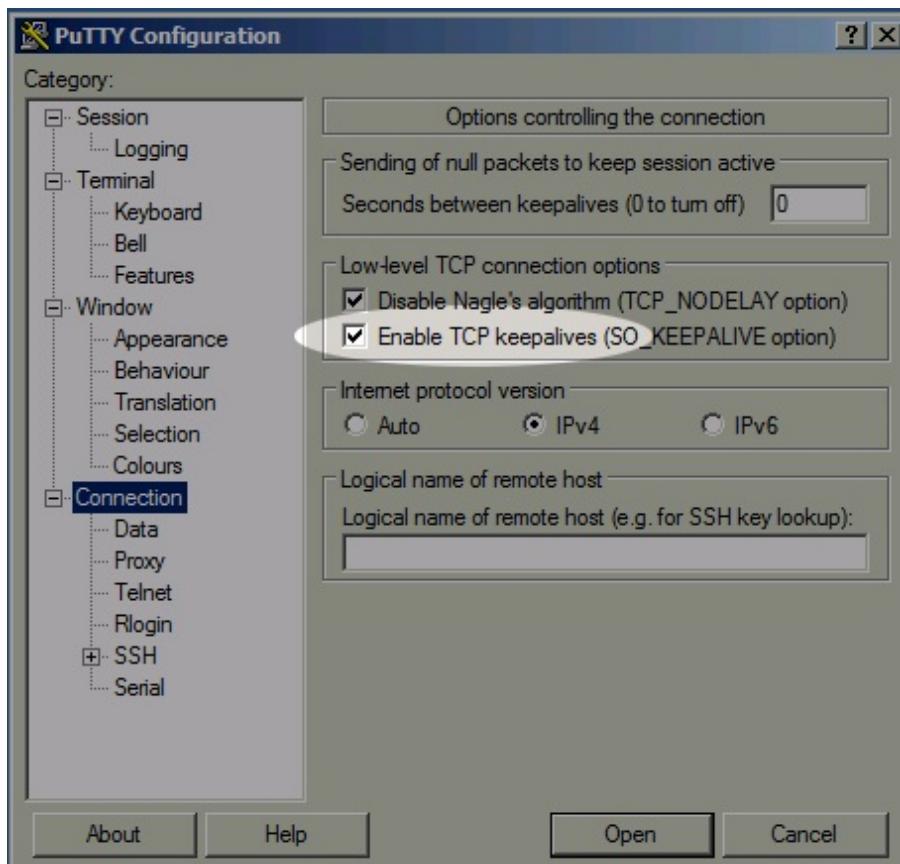
- B. Let's default the window to something large, like 120 columns and 56 rows.



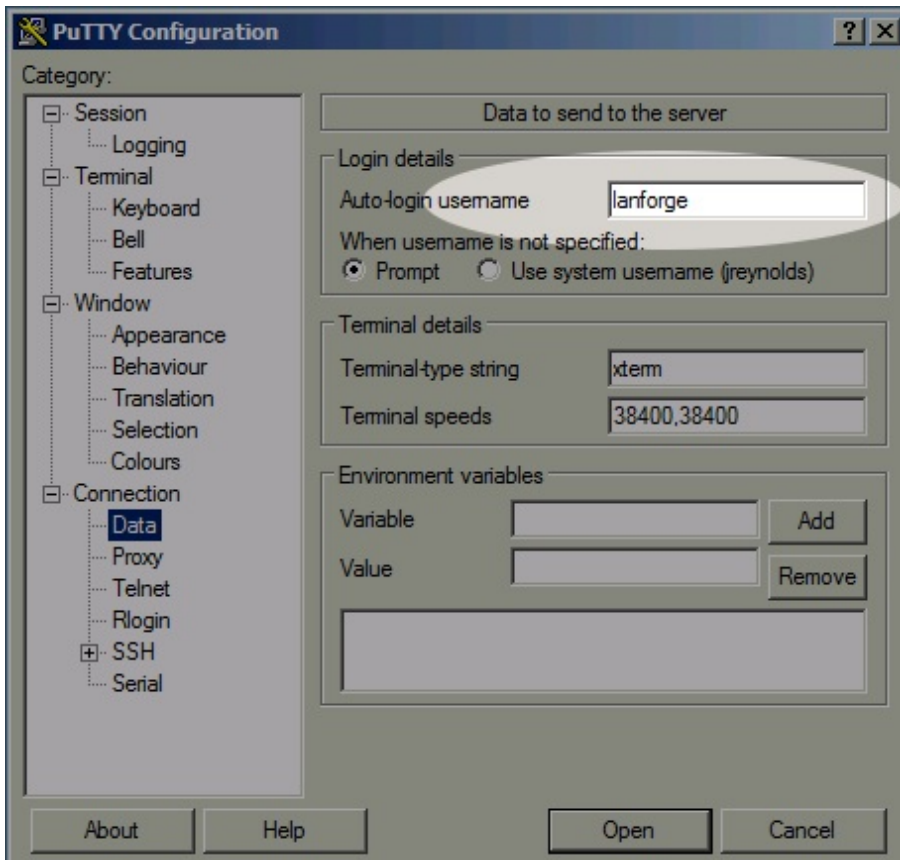
C. The *Fixed* font can be replaced with the *Consolas* font.



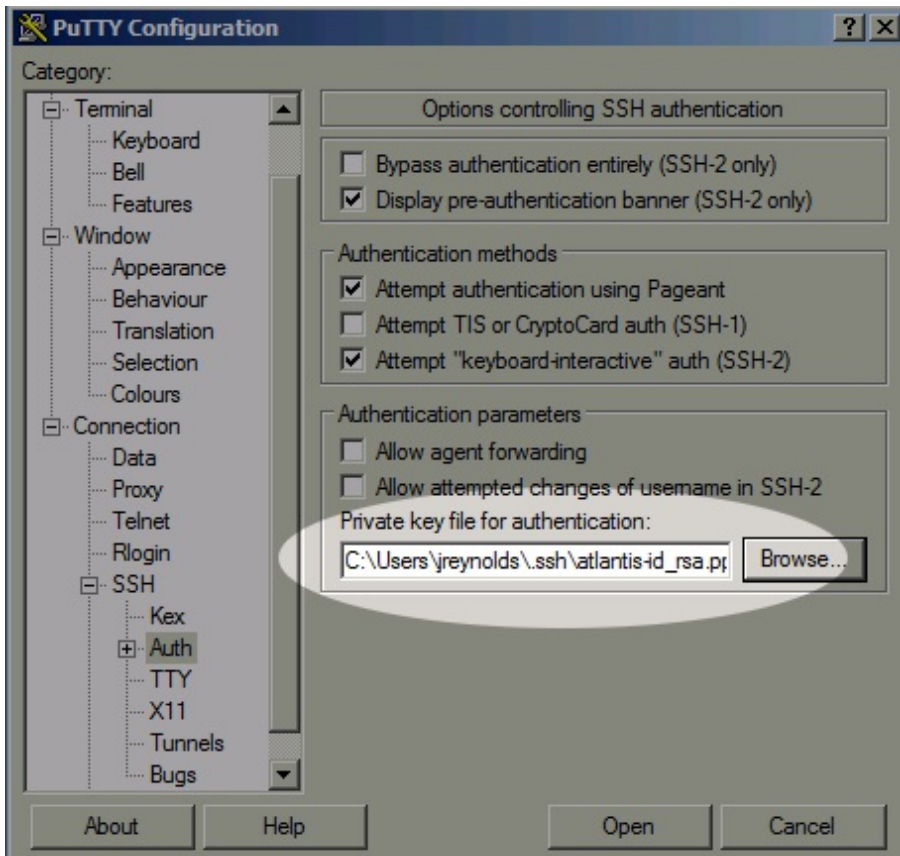
D. Let's turn on *TCP Keep-alive* and set *IPv4* as the default networking protocol.



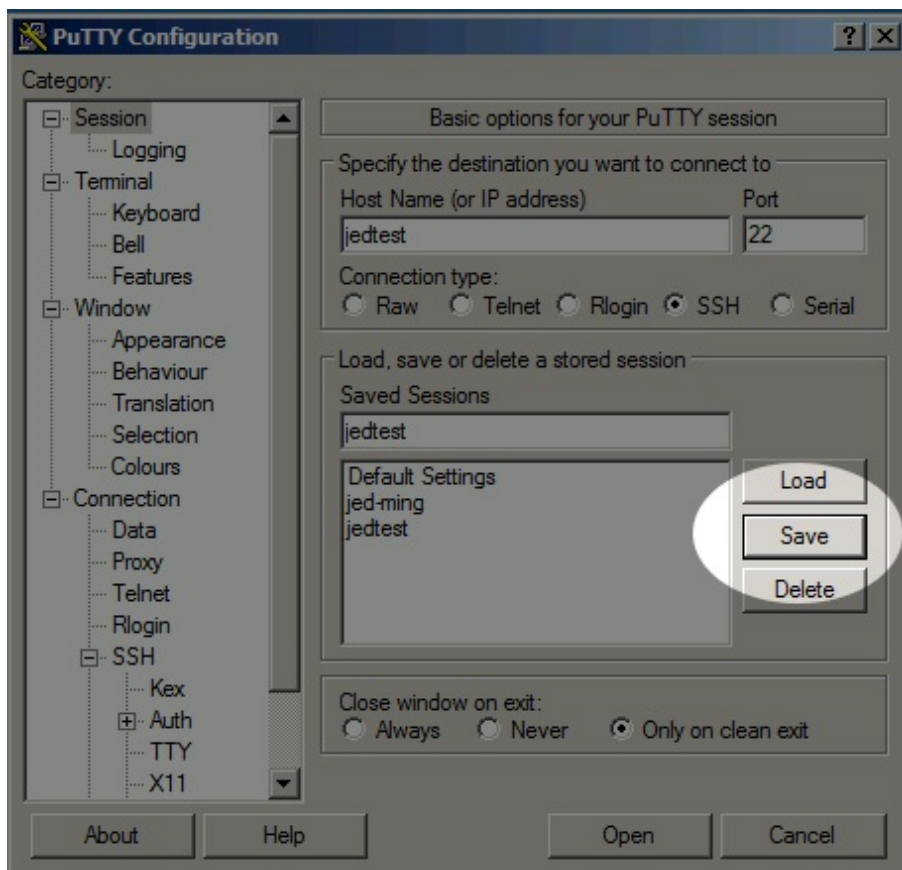
E. We login to LANforge resources with user lanforge



F. Generating a SSH keypair is not difficult. Let's enter the path to our public key file.

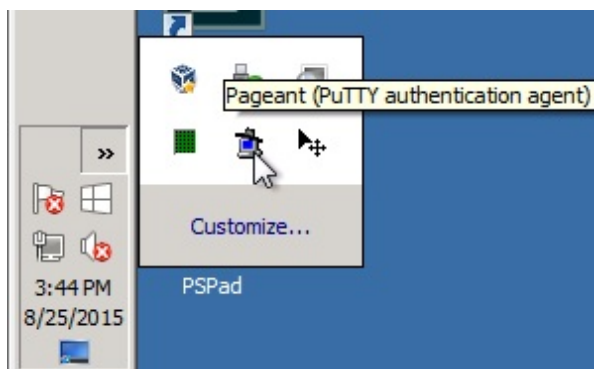


G. We have done our PuTTY config. Now back to the top **Session** screen, and click **Save**



2. Configure Pageant with your public key

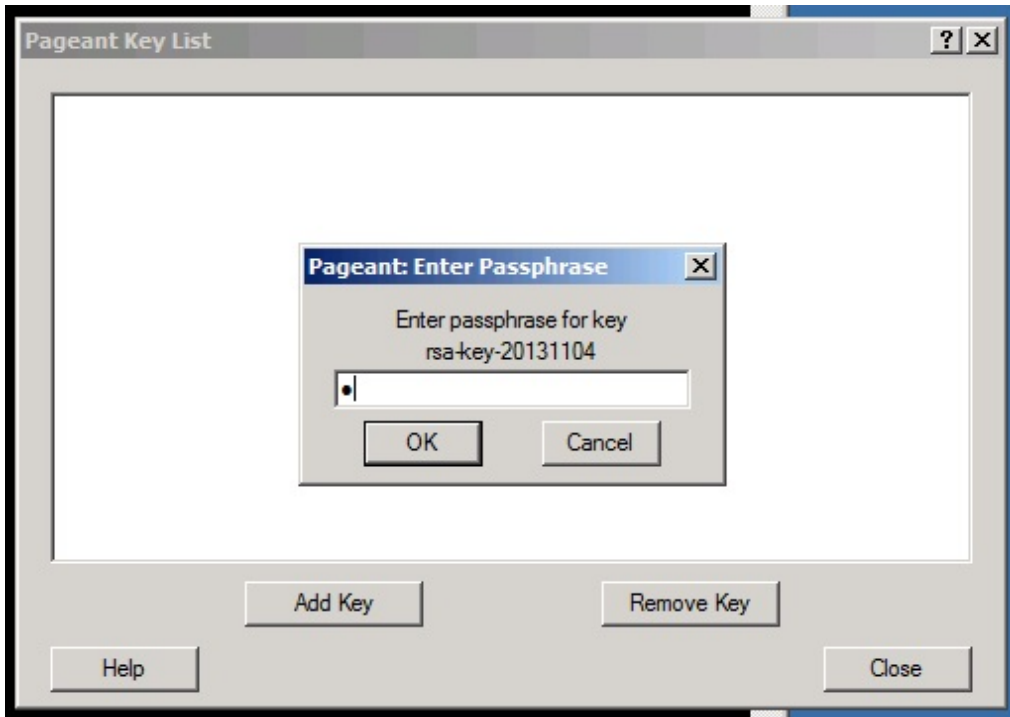
- A. Create your own public ssh key. For more information see [WinScp Net](#)
- B. Start Pageant. Configure it to load on startup.
- C. In the System Tray you will see the Pageant icon.



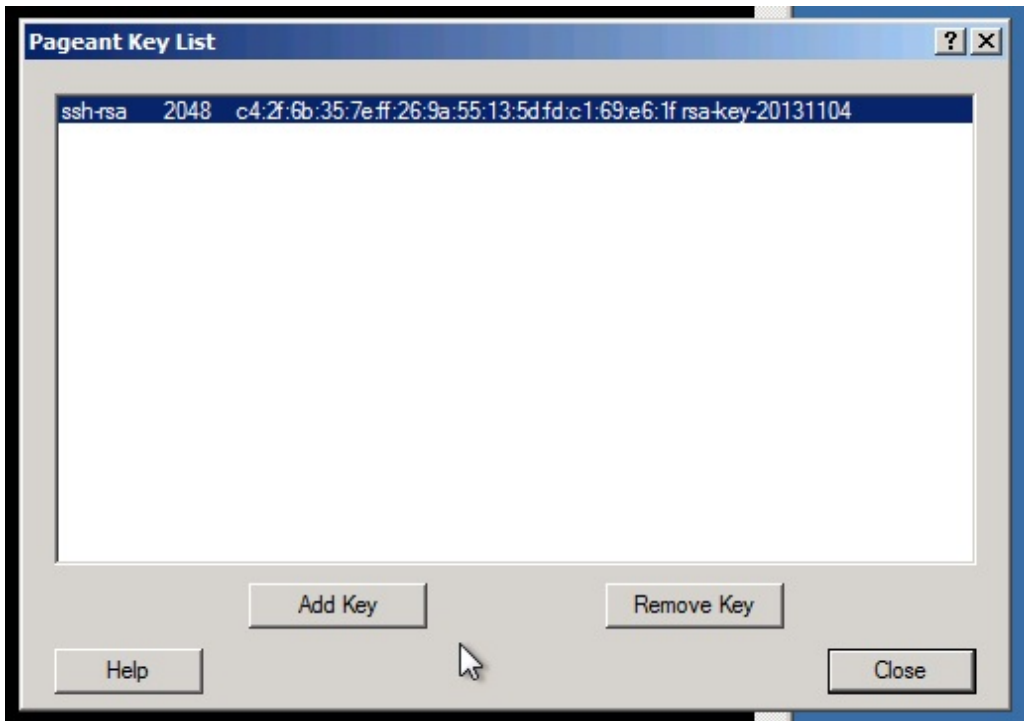
D. **Right-click** the Pageant icon and click **Add Key** to select your key



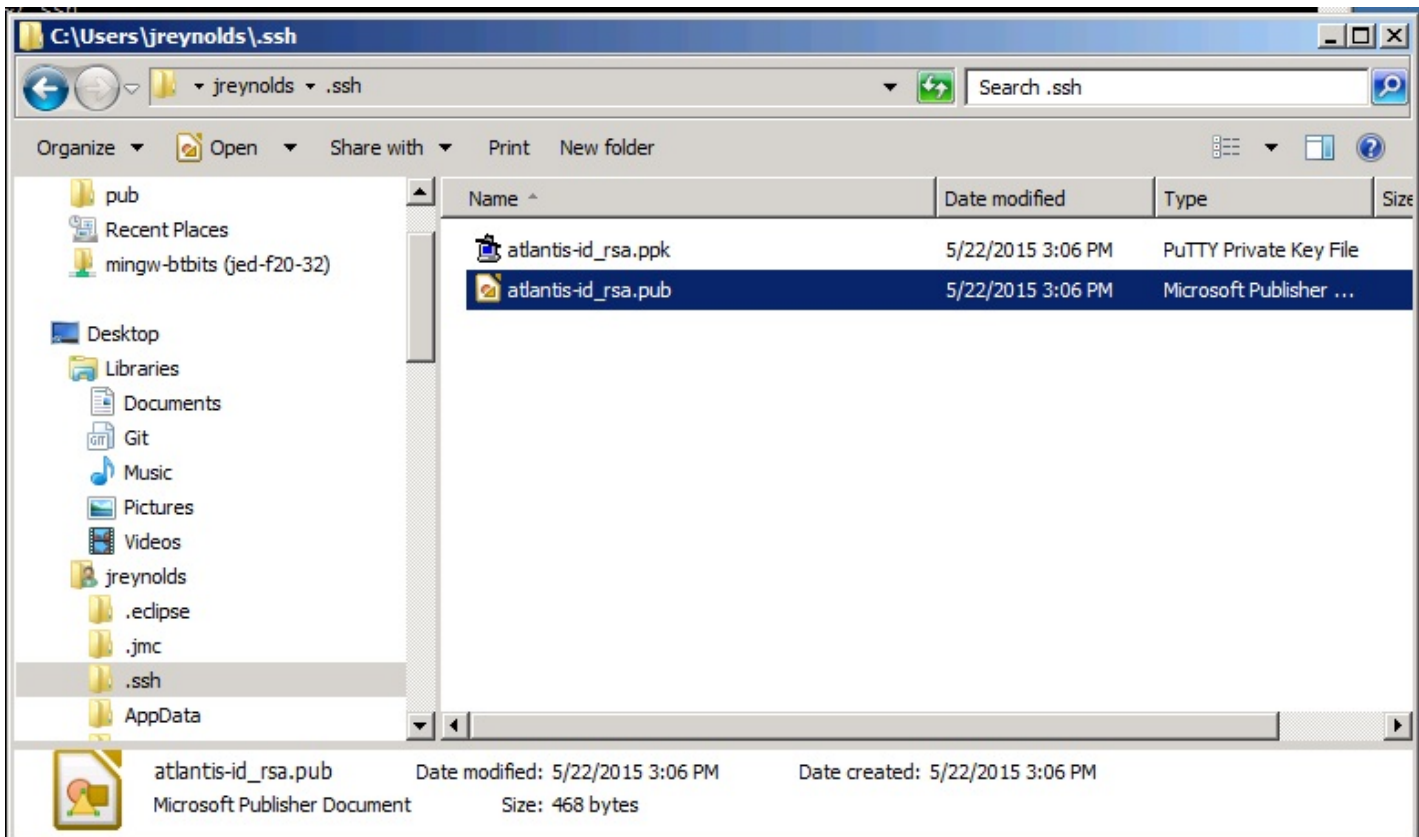
E. You will need to provide your pass-phrase to load your key



F. We see a loaded key



G. Here is our key, we will view the .pub file to copy out the public key.

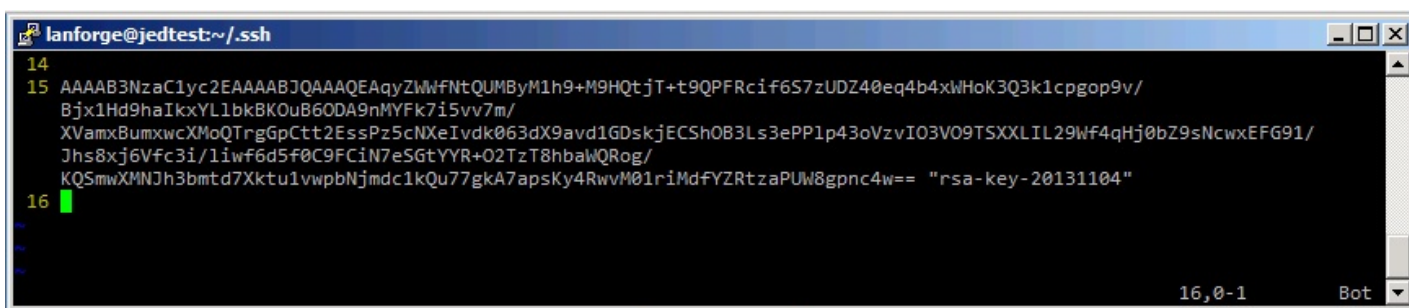


H. In a putty window you will log into your LANforge server and edit
`/home/lanforge/.ssh/authorized_keys`

I. Copy the text and place the "Comment" section at the end when you paste it into your ssh

```
0      10      20      30      40      50      60      70      80
---- BEGIN SSH2 PUBLIC KEY ----
Comment: "rsa-key-20131104"
AAAAB3NzaC1yc2EAAAABJQAAAQEAqyZWWfNtQUMByM1h9+M9HQjtT+t9QPFRcif6
S7zUDZ40eq4b4xwHoK3Q3k1cpgop9v/Bjx1Hd9haIkxYL1bkBK0uB60DA9nMYFk7
i5vv7m/XVamxBumxwcXMoQTrgGpCtt2EssPz5cNXeIvdK063dX9avd1GDskjECSh
OB3Ls3ePP1p43oVzvIO3V09TSXXLIL29Wf4qHj0bZ9sNcwxEFG91/Jhs8xj6Vfc3
i/liwf6d5f0C9FCiN7eSGtYYR+02TzT8hbaWQRog/KQSmwXMNjH3bmtD7Xktu1vw
pbNjmdc1kQu77gkA7apsKy4RwwM01riMdfYZRtzaPUw8gpnc4w==
---- END SSH2 PUBLIC KEY ----
```

J. Here is the public key string, with newlines and spaces removed. The *Comment* text goes at the end.

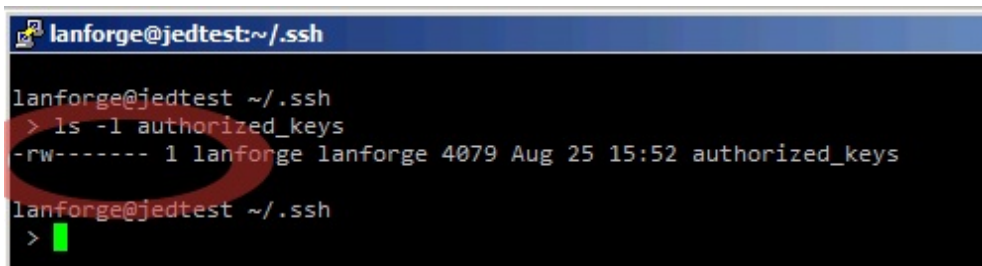


```
lanforge@jedtest:~/ssh
14
15 AAAAB3NzaC1yc2EAAAABJQAAAQEAqyZWWfNtQUMByM1h9+M9HQjtT+t9QPFRcif6S7zUDZ40eq4b4xwHoK3Q3k1cpgop9v/
Bjx1Hd9haIkxYL1bkBK0uB60DA9nMYFk7i5vv7m/
XVamxBumxwcXMoQTrgGpCtt2EssPz5cNXeIvdK063dX9avd1GDskjECShOB3Ls3ePP1p43oVzvIO3V09TSXXLIL29Wf4qHj0bZ9sNcwxEFG91/
Jhs8xj6Vfc3i/liwf6d5f0C9FCiN7eSGtYYR+02TzT8hbaWQRog/
KQSmwXMNjH3bmtD7Xktu1vwpbNjmdc1kQu77gkA7apsKy4RwwM01riMdfYZRtzaPUw8gpnc4w== "rsa-key-20131104"
16
```

K. Check the permissions of the `authorized_keys` file. You might need to use the command

```
chmod 600 authorized_keys
```

to correct the permissions.



```
lanforge@jedtest:~/ssh
lanforge@jedtest ~/ssh
> ls -l authorized_keys
-rw----- 1 lanforge lanforge 4079 Aug 25 15:52 authorized_keys
lanforge@jedtest ~/ssh
>
```

L. The next time we load the *jedtest* PuTTY session we should not be prompted for our password.