

## Tutorial 1: Cadence Configuration Steps

### Revision Notes:

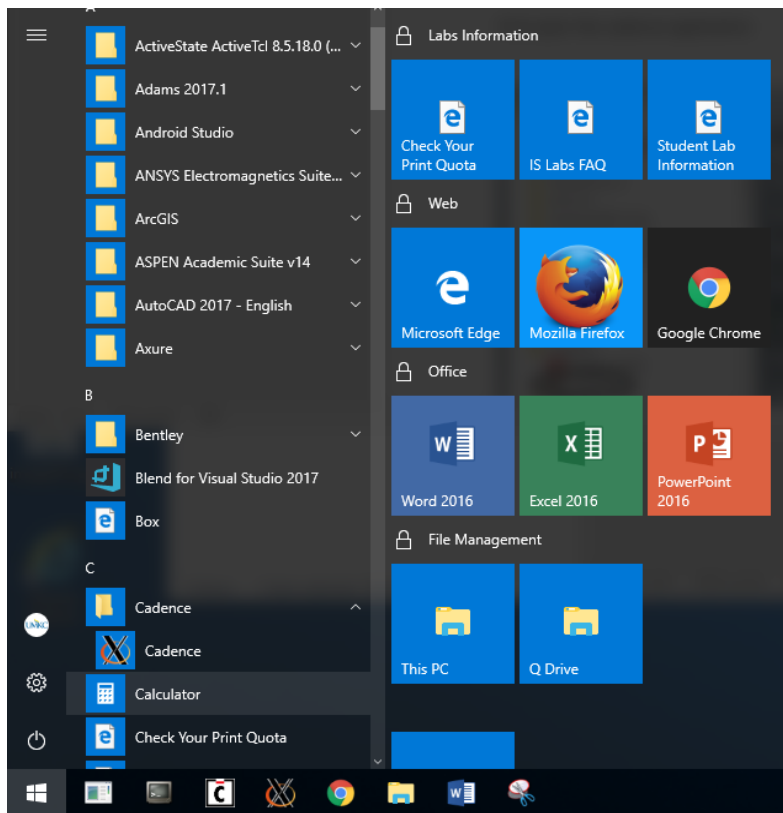
August 2017	Create the tutorial	Liaquat Ali

### Objectives:

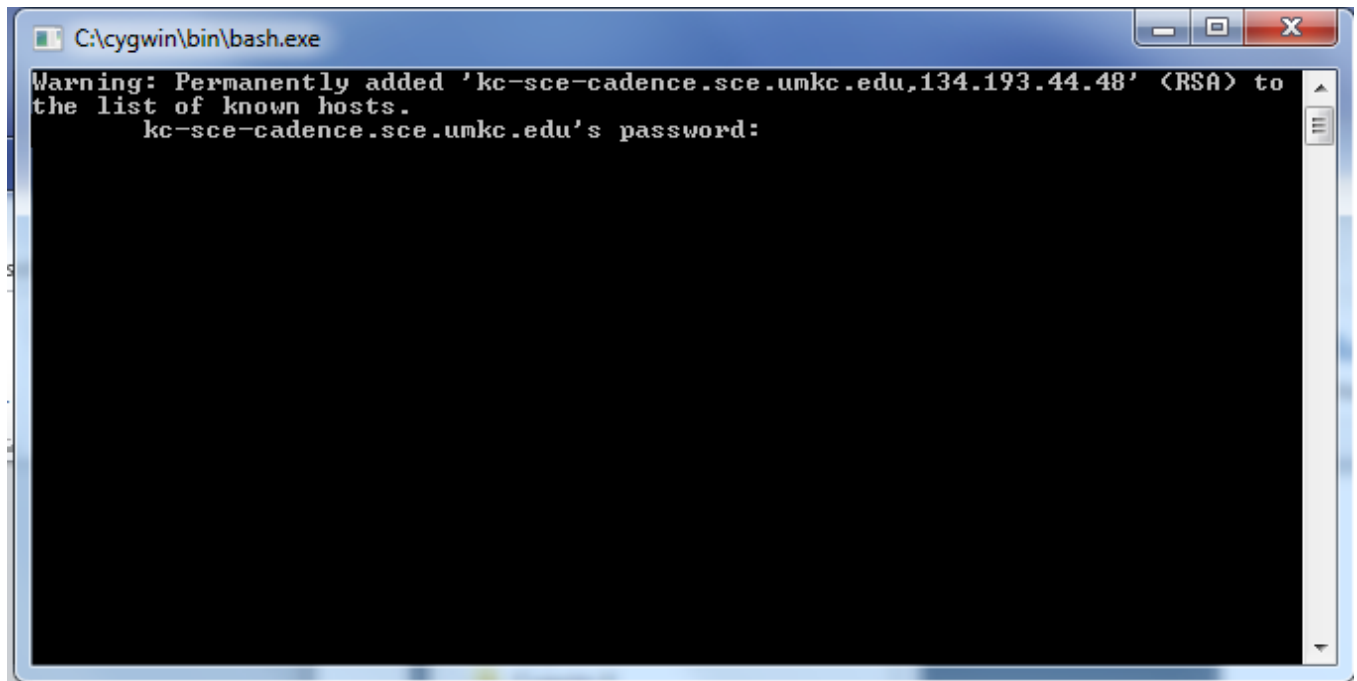
In this tutorial, we will configure the Cadence software and how can you access the cadence on your laptop or any other computer outside the labs. Remember that these steps should be performed every time you have to open the software.

### Introduction:

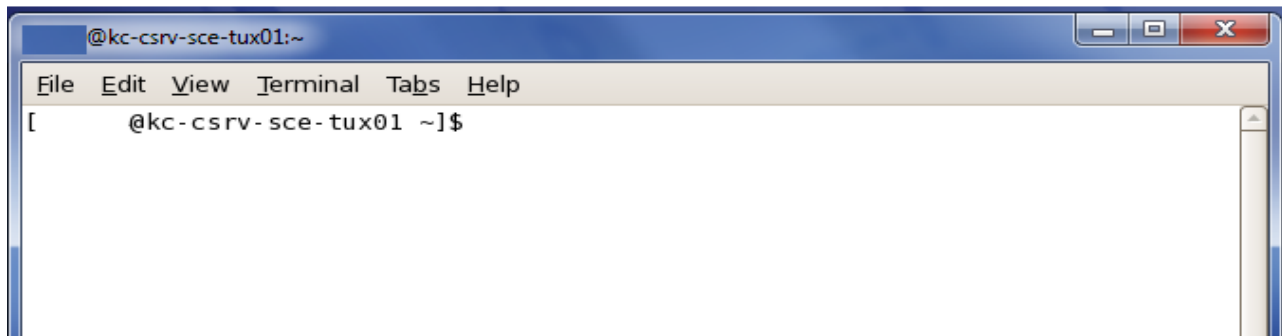
First, open the cadence application



After clicking on Cadence, you will see a black command window as shown below. Then, put your SSO password. (Note: **the password will not appear on the screen as “•” or “\*” when entered**)



Once you have entered your password the following window will appear



On the new window, follow the following steps:

1. If you have a directory named “cadence6” go to step two, if not create one by typing:

**mkdir cadence6[Enter]**

mkdir will create a new directory by name of cadence6

2. To see the newly created directory:

**ls[Enter]**

ls command show the list of files and folder inside the directory

3. Run script:

**CadenceSetup[Enter]**

It will run the script file and configures the cadence necessary files

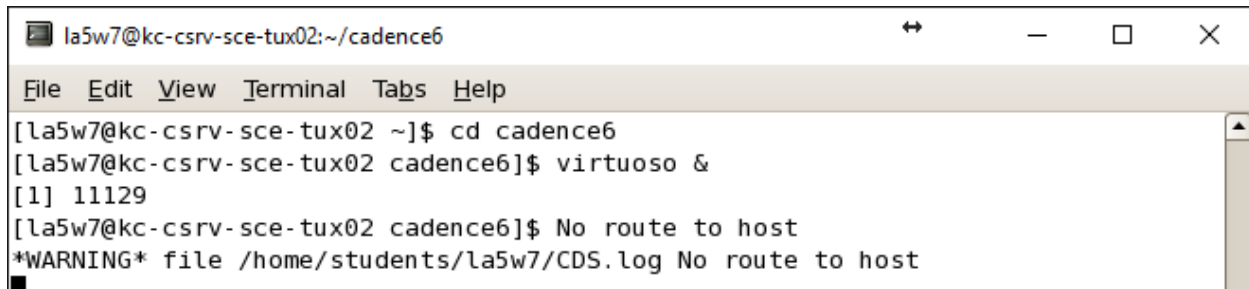
4. Make ~/cadence6 your default directory:

**cd cadence6[Enter]**

Enter into the folder cadence6 that you just created.

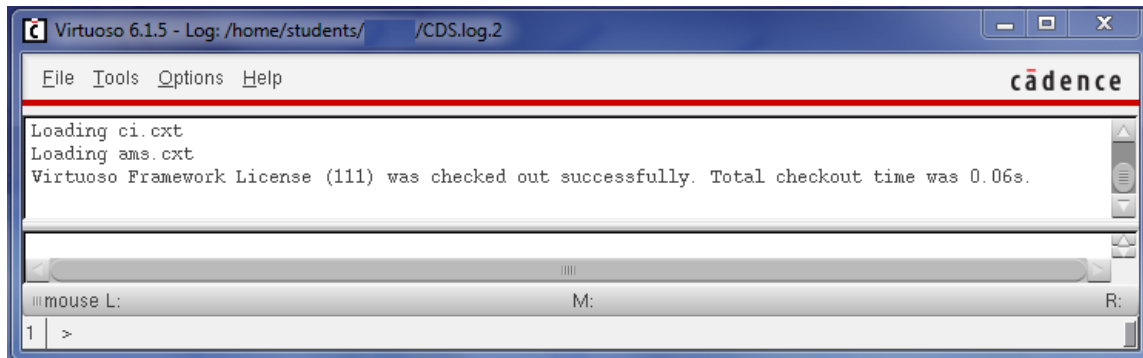
5.To run the software

**Virtuoso &[Enter]**



```
la5w7@kc-csrv-sce-tux02:~/cadence6
File Edit View Terminal Tabs Help
[la5w7@kc-csrv-sce-tux02 ~]$ cd cadence6
[la5w7@kc-csrv-sce-tux02 cadence6]$ virtuoso &
[1] 11129
[la5w7@kc-csrv-sce-tux02 cadence6]$ No route to host
*WARNING* file /home/students/la5w7/CDS.log No route to host
```

Note: users should only need to run CadenceSetup once (though it won't hurt if you run it more than once). Make sure to have your default directory set to ~/cadence6. All projects you create will be subdirectories of ~/cadence6.

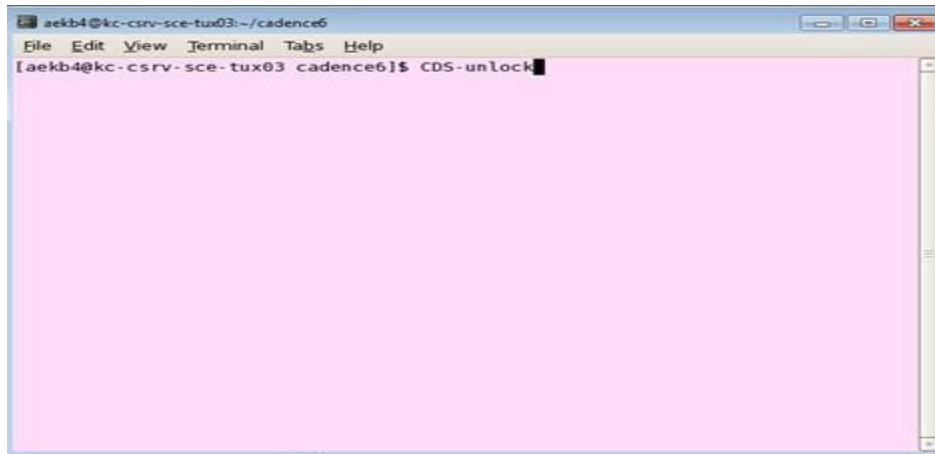


If you see the above window, you have successfully configured your Cadence.

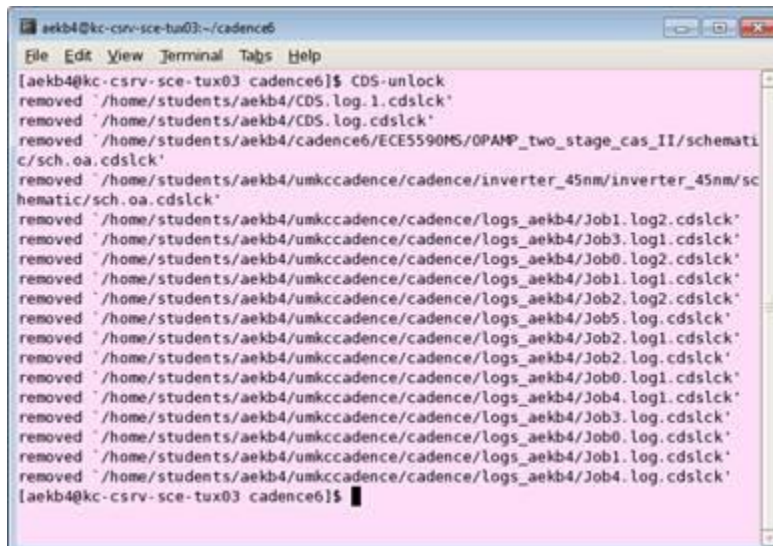
## How to unlock the files locked by software

If you are using the cadence and your files are locked or you are unable to modify your circuit as last time the software is crashed or shutdown random then you have to unlock the files by performing these steps.

1. Close cadence
2. In Linux terminal
3. Write CDS-unlock all, then enter



4. Give it some time to unlock your files (the figure below may not look the same for everyone)



5. Start virtuoso
6. Your file should be unlocked for editing

## How to access the cadence from home/outside the lab

Install these software's first at your home computer or laptop

Install Xming

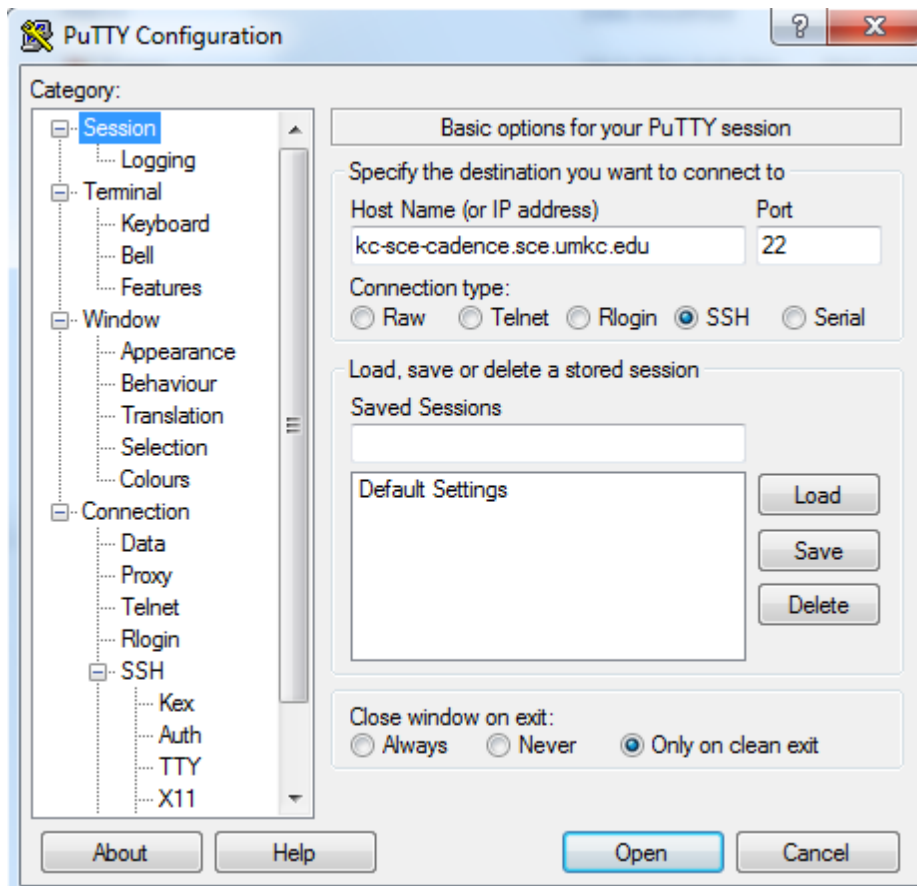
<http://sourceforge.net/projects/xming/>

Install putty

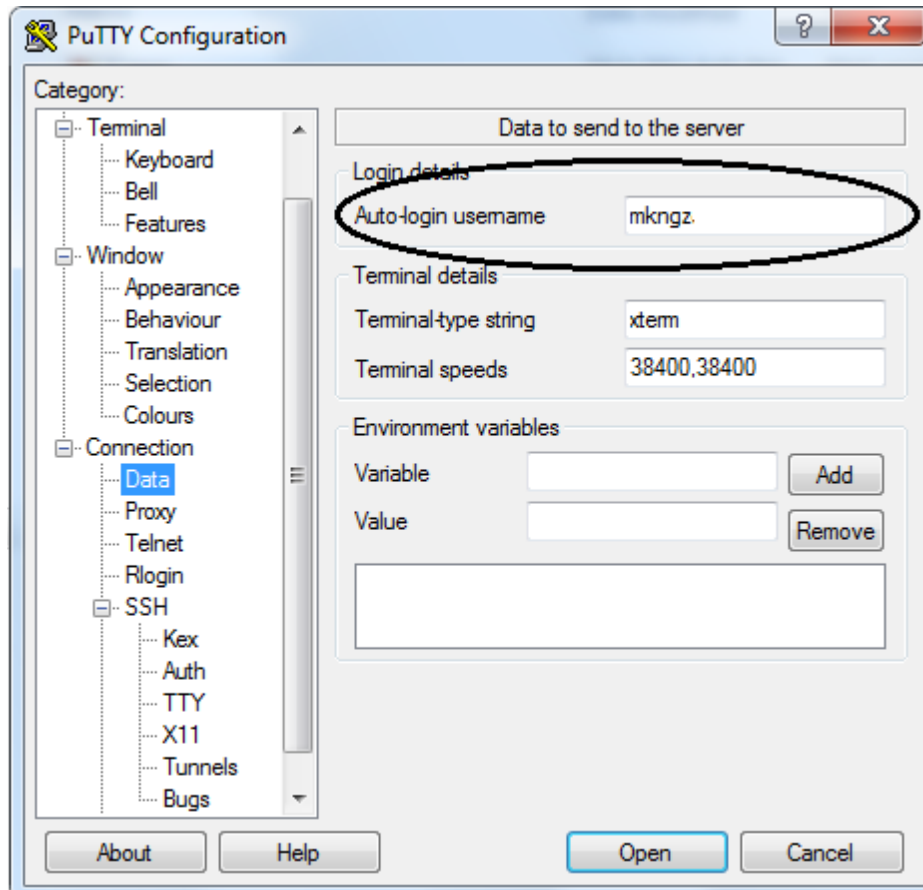
<http://www.putty.org/>

After install, both run Putty

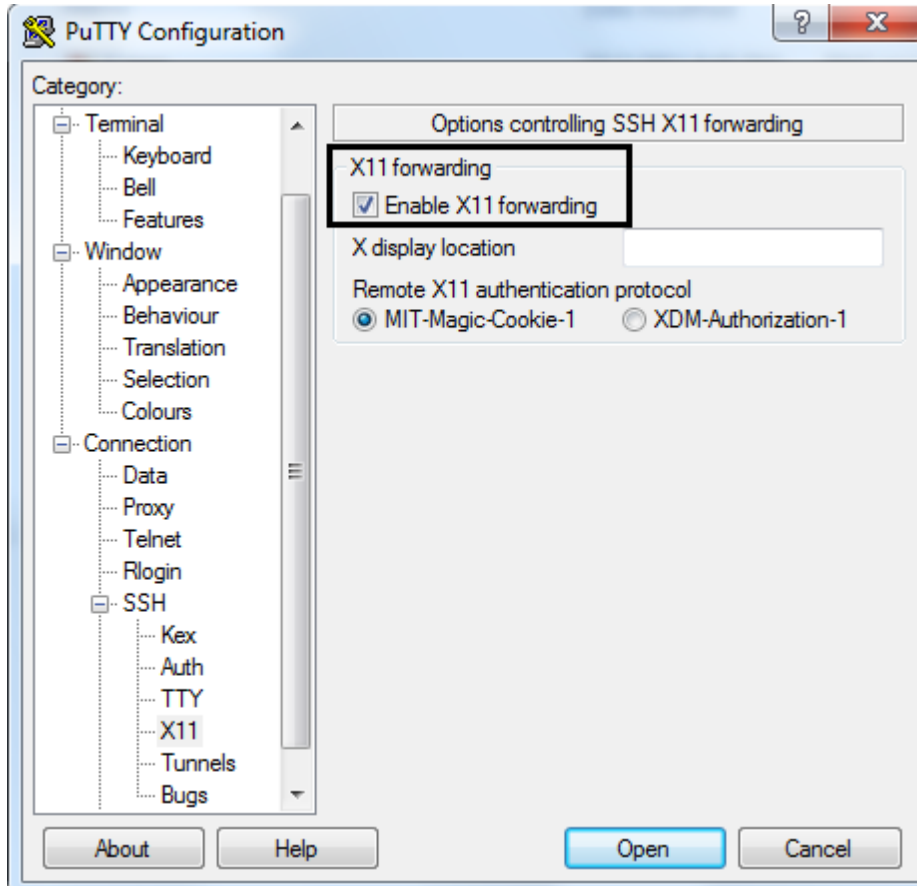
Click on Session on the left panel and enter the Host Name as follows: kc-sce-cadence.sce.umkc.edu



Click on Connection->Data on the left pane, and enter your user name as shown below (it is the same as your UMKC user login name)

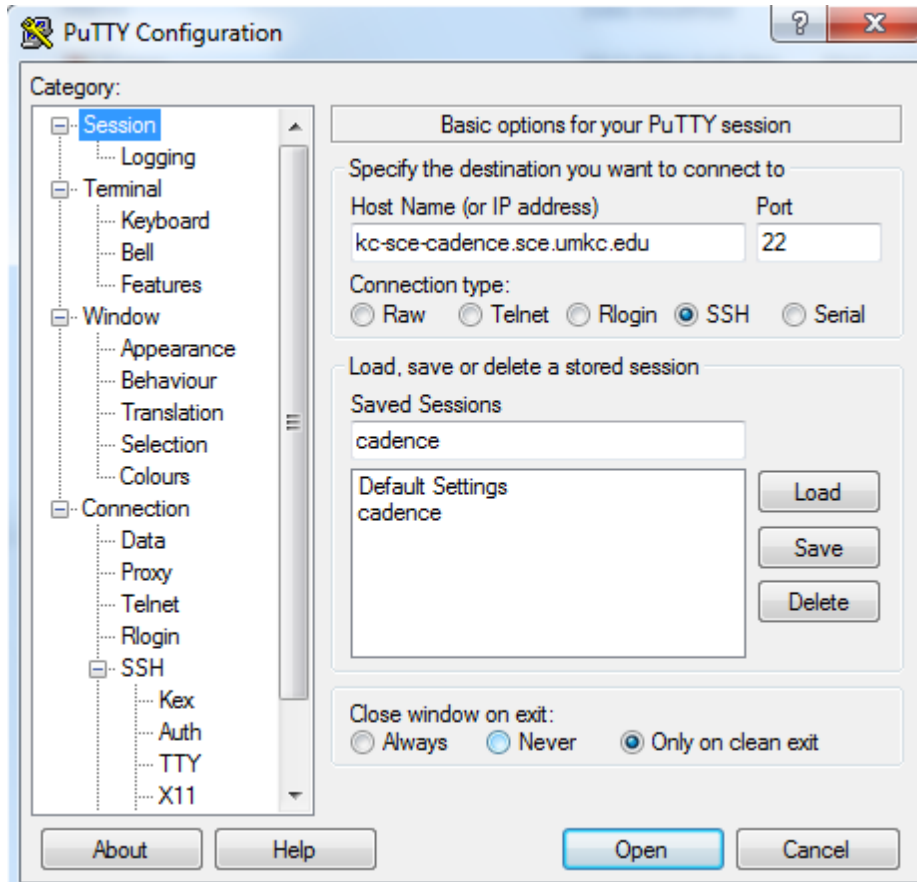


Then expand connection list and expand SSH list and click on X11 and check the box Enable X11 forwarding.



Go back to Session on the left pane and enter the following:

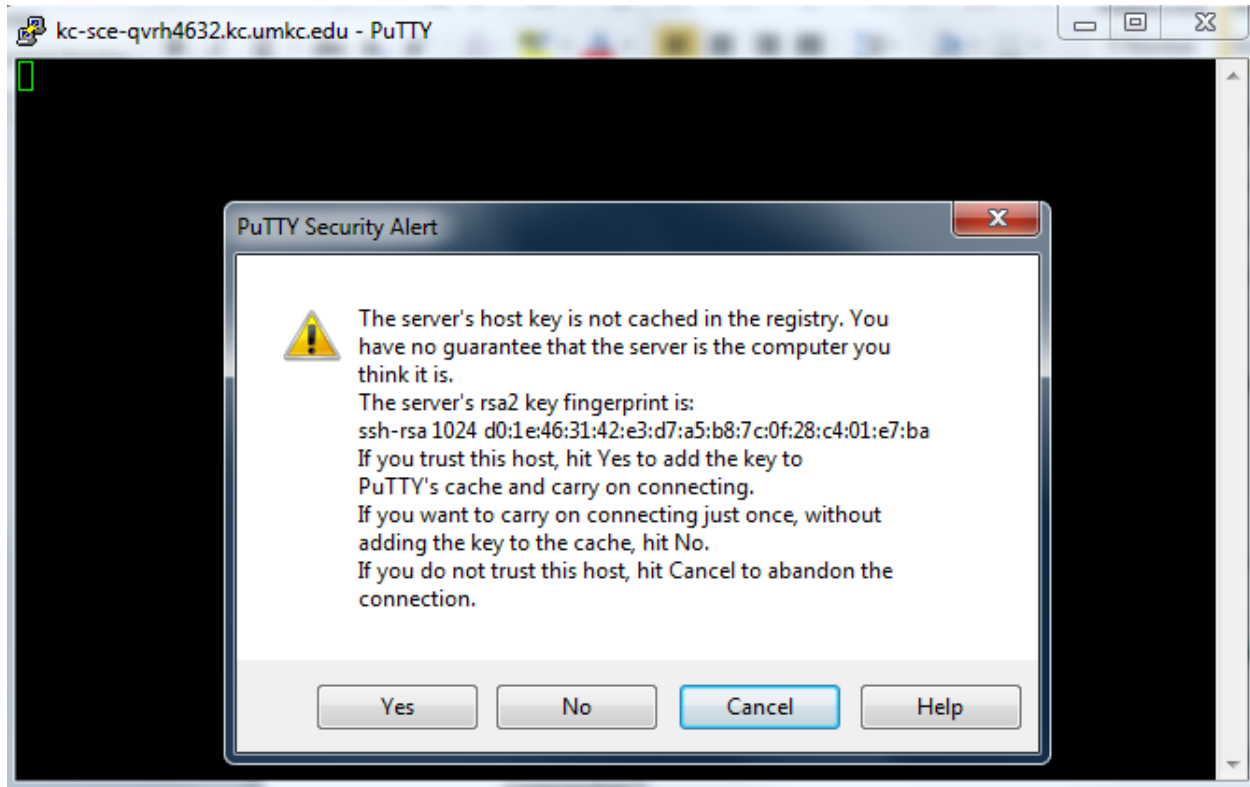
On the Saved Sessions textbox enter: cadence then click Save. You will notice that the word cadence word will be added to the session list. In the future you can load this configuration avoiding having to retype the server name, you user name, etc. See the figure bellow:





Note: PuTTY is configurable locally so you need to repeat this above steps if you use a different computer next time. Now we are done with the PuTTY profile configuration and ready to login into the server. On the PuTTY window click on the Open button.

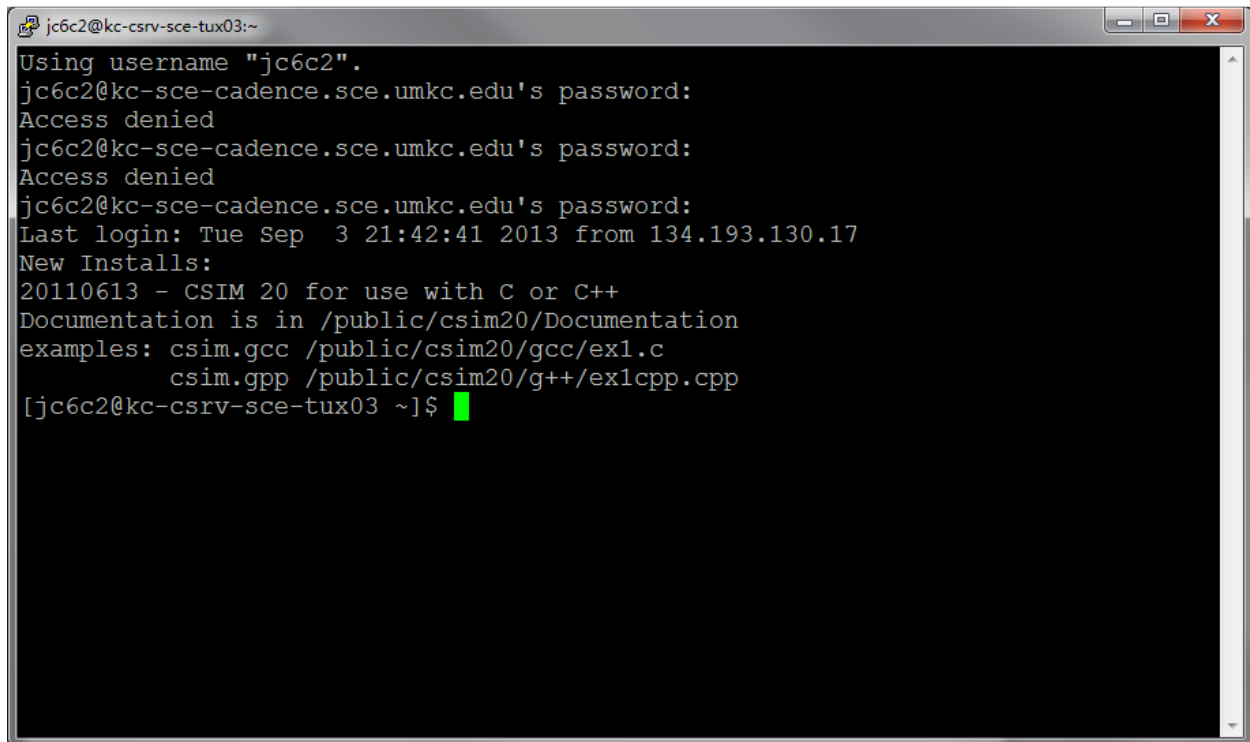
The first time you login you might see the following window. Click Yes



When prompted enter your UMKC Password on the black window that will appear and press enter. This black window is the terminal window that allows you to issue commands and interact with the server. You will do the same thing again

\$ cd cadence6

And then run the command virtuoso &

A terminal window titled 'jc6c2@kc-csrv-sce-tux03:~' with standard window controls. The terminal output shows a login attempt for user 'jc6c2' on 'kc-sce-cadence.sce.umkc.edu'. The user is prompted for their password three times, and each attempt results in 'Access denied'. After the third attempt, the system displays the last login time and IP address, followed by information about new installations of CSIM 20, including documentation location and example files. The prompt returns to the user's home directory.

```
jc6c2@kc-csrv-sce-tux03:~  
Using username "jc6c2".  
jc6c2@kc-sce-cadence.sce.umkc.edu's password:  
Access denied  
jc6c2@kc-sce-cadence.sce.umkc.edu's password:  
Access denied  
jc6c2@kc-sce-cadence.sce.umkc.edu's password:  
Last login: Tue Sep  3 21:42:41 2013 from 134.193.130.17  
New Installs:  
20110613 - CSIM 20 for use with C or C++  
Documentation is in /public/csim20/Documentation  
examples: csim.gcc /public/csim20/gcc/ex1.c  
           csim.gpp /public/csim20/g++/ex1cpp.cpp  
[jc6c2@kc-csrv-sce-tux03 ~]$
```

