MobaXterm Access Tutorial

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Pros and Cons about MobaXterm

Pros:

- 1. You can log on to the ECE sever locally with **MobaXterm**.
- 2. To draw the **layout**, **MobaXterm** can be a better choice than **ECE Guacamole**, especially when you have **multiple screens**. You can put the schematic on one screen and put the layout on the other one.
- 3. **MobaXterm** does not have the command-entering issue that often happens on **ECE Guacamole.**

Cons:

- 1. MobaXterm crashes often. Make sure to save your work periodically.
- 2. The speed of **MobaXterm** is **heavily dependent** on your **local internet speed**. It has the best performance when operating under the campus internet "eduroam".
- 3. For very long simulations, because MobaXterm crashes very often, ECE Guacamole is a better choice, because it is much more stable than MobaXterm.
- 4. If you are running simulations on MobaXterm, and see a warning message shown below, it is because the programs that you are running allocate more memory than the ECE department server's physical RAM. If you continue running your simulation, the simulation progress turns to be super slow and very likely to crash. When you see this warning message, simply just change your simulation to ECE Guacamole or just use ECE Guacamole to do simulations in the first place.

X Swa	p Activity Warning@cvlws05.ece.vt.edu
Â	Excessive swap activity has been detected, which can cause decreased performance. The application will continue to run, but if excessive swapping continues due to the memory requirements of all the programs currently running on this system, the performance of this program may continue to be negatively affected.
	Do you wish to see this warning again after 10 minutes if the condition persists or recurs?
	Yes No Help

Create Your ECE Account

- 1. Open a web browser, and enter https://computing.ece.vt.edu/accounts;
- 2. Log in with your **VT PID**.
- 3. Click ECE Services under the Contents;
- 4. Click Manage ECE Accounts.
- 5. Enter Your ECE account and password.
- 6. Click New;
- 7. Fill in the blank fields and click Create ECE Account!

Download MobaXterm

- 1. Go to https://mobaxterm.mobatek.net/download.html.
- 2. Select Home Edition, click Download now.
- 3. Select either **Portable edition** or **Installer edition**.
- 4. Install **MobaXterm** after it is downloaded.

Access to ECE Server

1. Open MobaXterm.

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2. Go to Session -> SSH.

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	Advanced SSH settings Terminal settings Network settings Bookmark settings															
	Cancel															

 a. For Remote host *, enter ssh.ece.vt.edu. b. Enable Specify usename and enter your ECE CVL account. c. Port should be 22; d. Click OK, a new SSH session should be created. 												
Session settings												
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4. **Double-click** on the session that you just create, it asks for the **password**.

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Enter your password. Note that this terminal will not show your password when you are typing. So, make sure your entering is correct.
 Save your password if you want to.



7. This interface should pop up if you successfully log on to the ECE server.



8. To open Cadence

- a. Navigate to your working directory (where the PDK is installed).
- b. Enter Cadence616.
- c. Enter virtuoso &.



9. The **Cadence window** should pop up.

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IC6.1.6 What's New Overview	<	
This overview describes significant new features and changes in the IC6.1.6 release.		
For extended information on What's New in this release, select "Help - What's New - In this Release" in the CIW Window.		
This What's New Overview contains the following sections: General Release What's New Information in IC6.1.6 Virtuoso Design Environment What's New Overview Virtuoso Schematic Editor What's New Overview Virtuoso Analog Design Environment What's New Overview Virtuoso Layout Suite What's New Overview Virtuoso Casce-based Router What's New Overview		
Virtuoso Design Translators What's New Overview 		
Virtuoso IC6.1.6 expands customer capabilities in verifying all aspects of their designs throughout the design process. This will lead to better quality results in faster times, IC6.1.6 introduces new, and enhanced, tools and methodologies that tackle tough verification problems early in the design 2 >	C1	
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