

Using Packet Tracer to Simulate a Simple Network

Part of Lab 7 for CE 80N

Fall 2014

Summary

1. Start Packet Tracer. Either . . .
 - Run it on a UCSC ITS-maintained Windows PC
 - Or install it on your own Windows PC
2. Create a network
 - Create two simulated PCs
 - Rename them and set their IP addresses
 - Connect the PCs with a simulated wire
3. Run two programs on the PCs

Running Packet Tracer

- You can run Packet Tracer in a UCSC PC lab
 - There are classes scheduled in the labs
 - But some PCs will be free
 - The TA has posted a sign
 - "Yield" means that you can use any open PC
 - "Stop" means that you cannot
 - You can
 - Check the lab's course schedule (link in next slide)
 - Just drop by and see if PCs are available

UCSC PCs That Can Run Packet Tracer

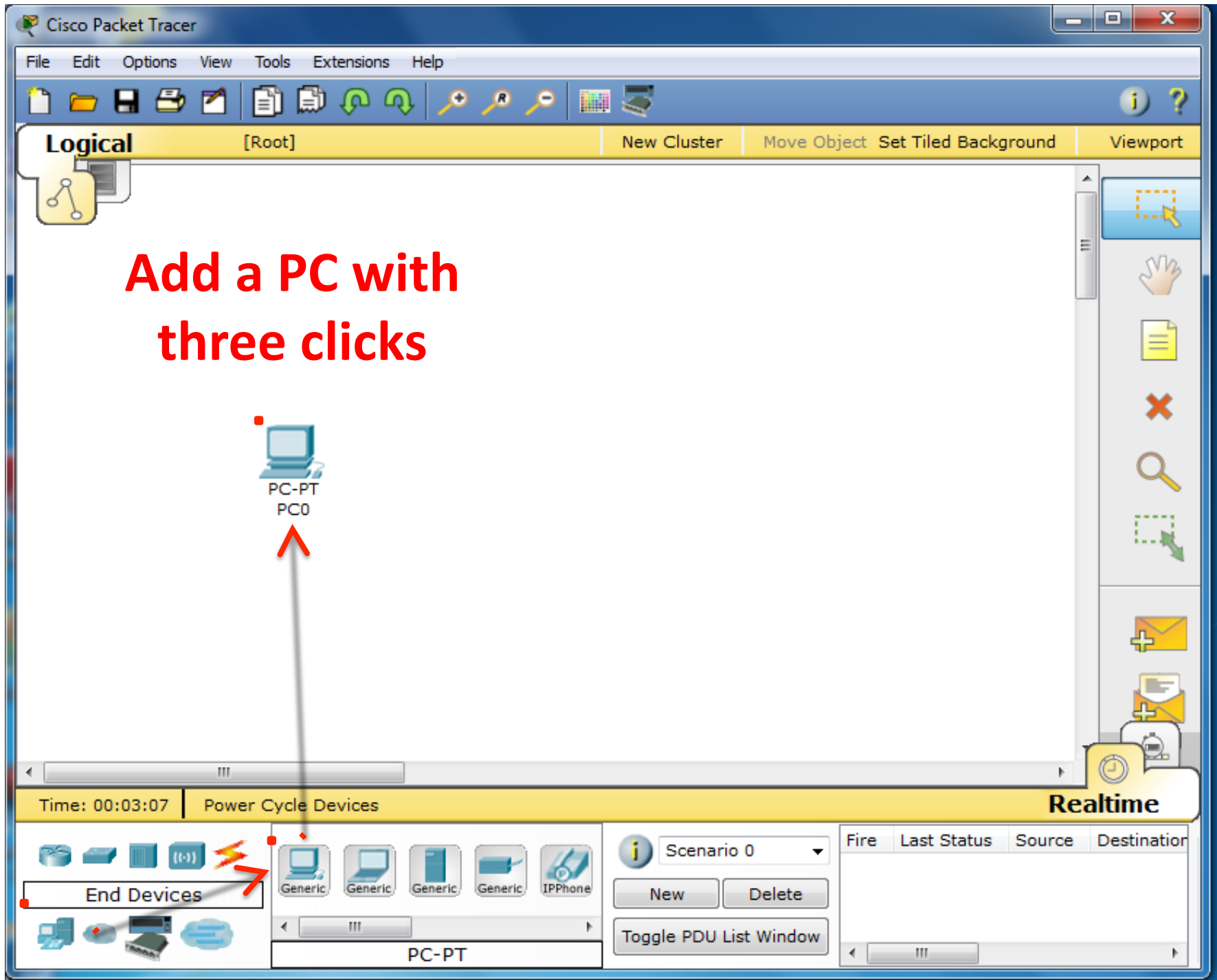
- Find a campus Windows computer lab
 - These labs have Windows PCs
 - Baskin Engineering 109
 - Cowell Apartments 101
 - Kresge 317
 - Merrill: Ming Ong Building
 - Oakes 205
 - Social Sciences 1, Room 135
 - Hours, Locations, and Scheduled Classes
 - <http://its.ucsc.edu/computer-labs/hours>
 - <http://its.ucsc.edu/computer-labs/class-schedules/spring>

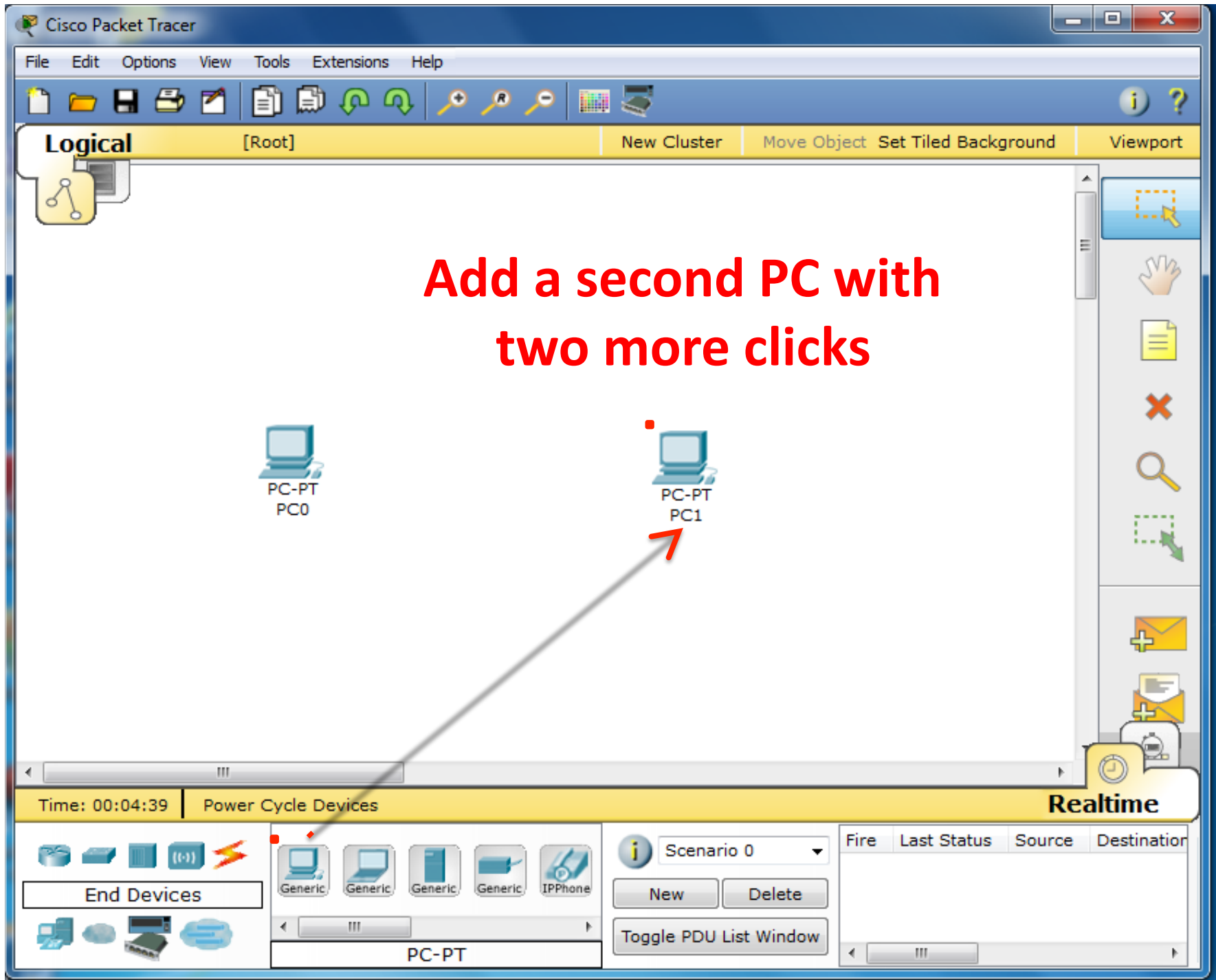
Want to Use Your Own Windows PC?

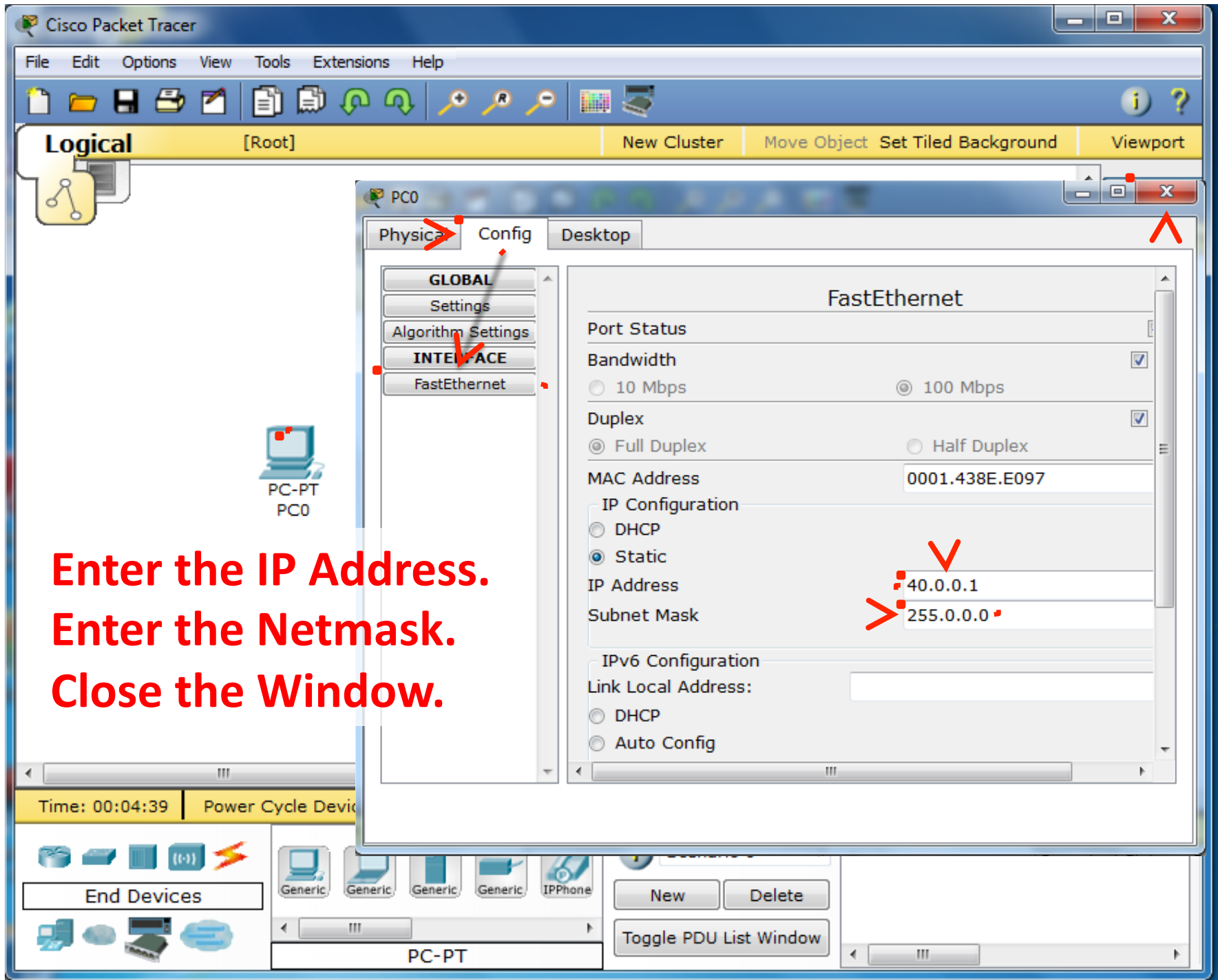
- You can install Packet Tracer on your own PC
 - If it has **Windows**
 - I've tested this **only** on my Windows 7 laptop
- The UCSC computers already have done this
 - **Don't try this on the UCSC PCs**
- Here's the installation program
 - http://www.soe.ucsc.edu/classes/cmpe080n/Winter11/PacketTracer53_setup.exe
- If this works, great!
 - If not, go to a UCSC Computer Lab

Start Packet Tracer

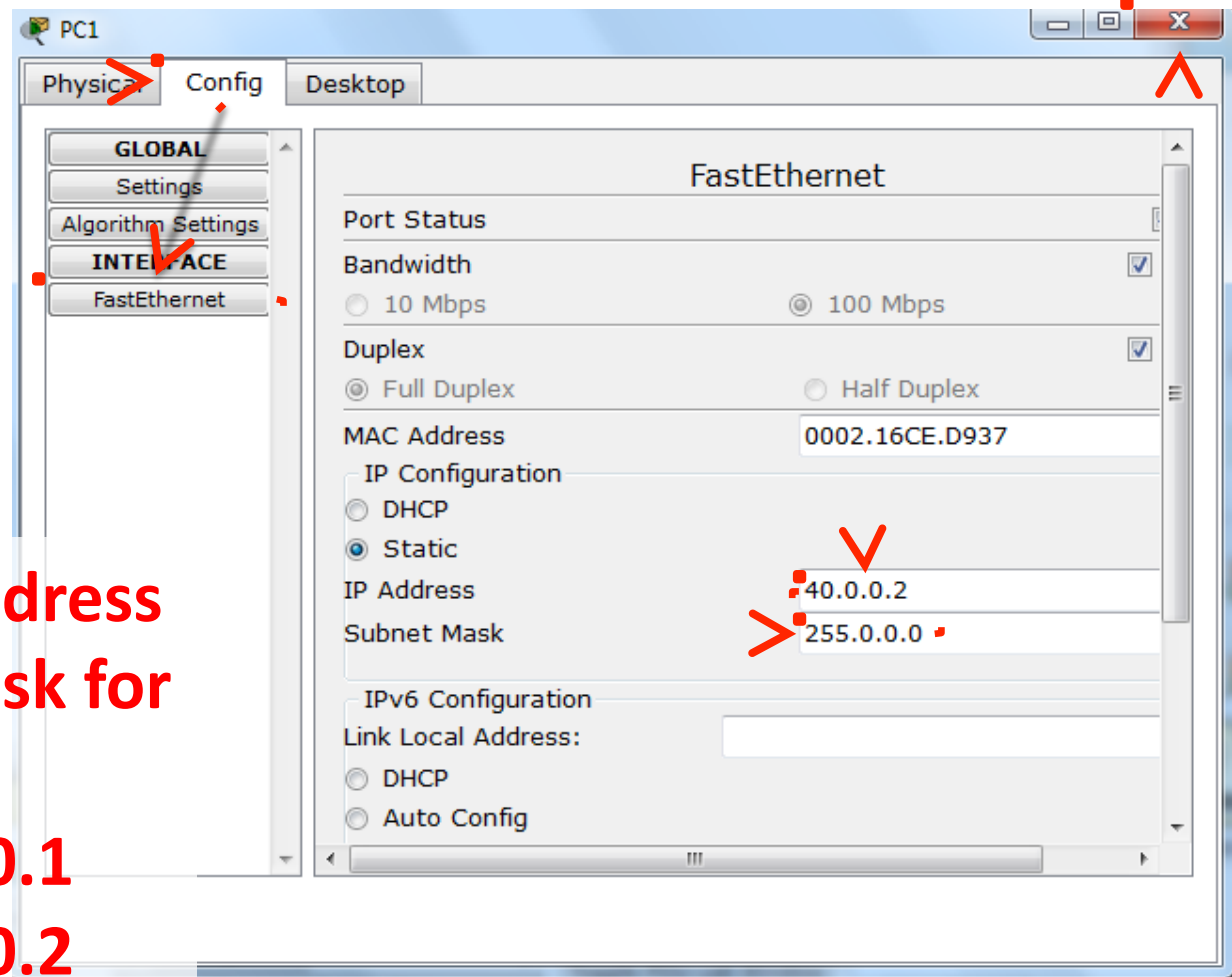
1. Log into the Windows PC
 - This won't work on a Mac
2. Open the "Class Folders" folder on the desktop
3. Open the "Computer Engineering" folder
4. Open the "CMPE 80N" folder
5. Double click on Packet Tracer

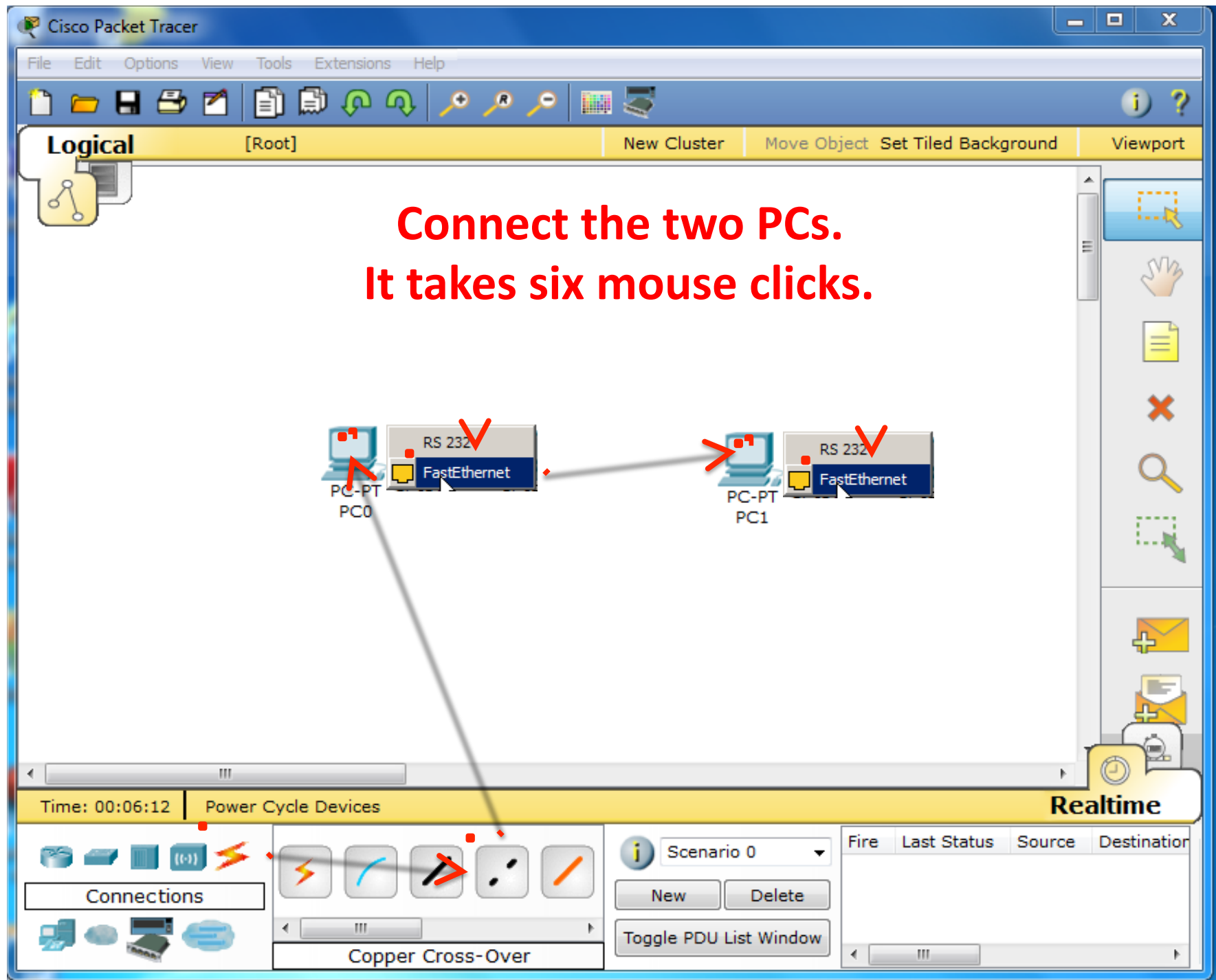


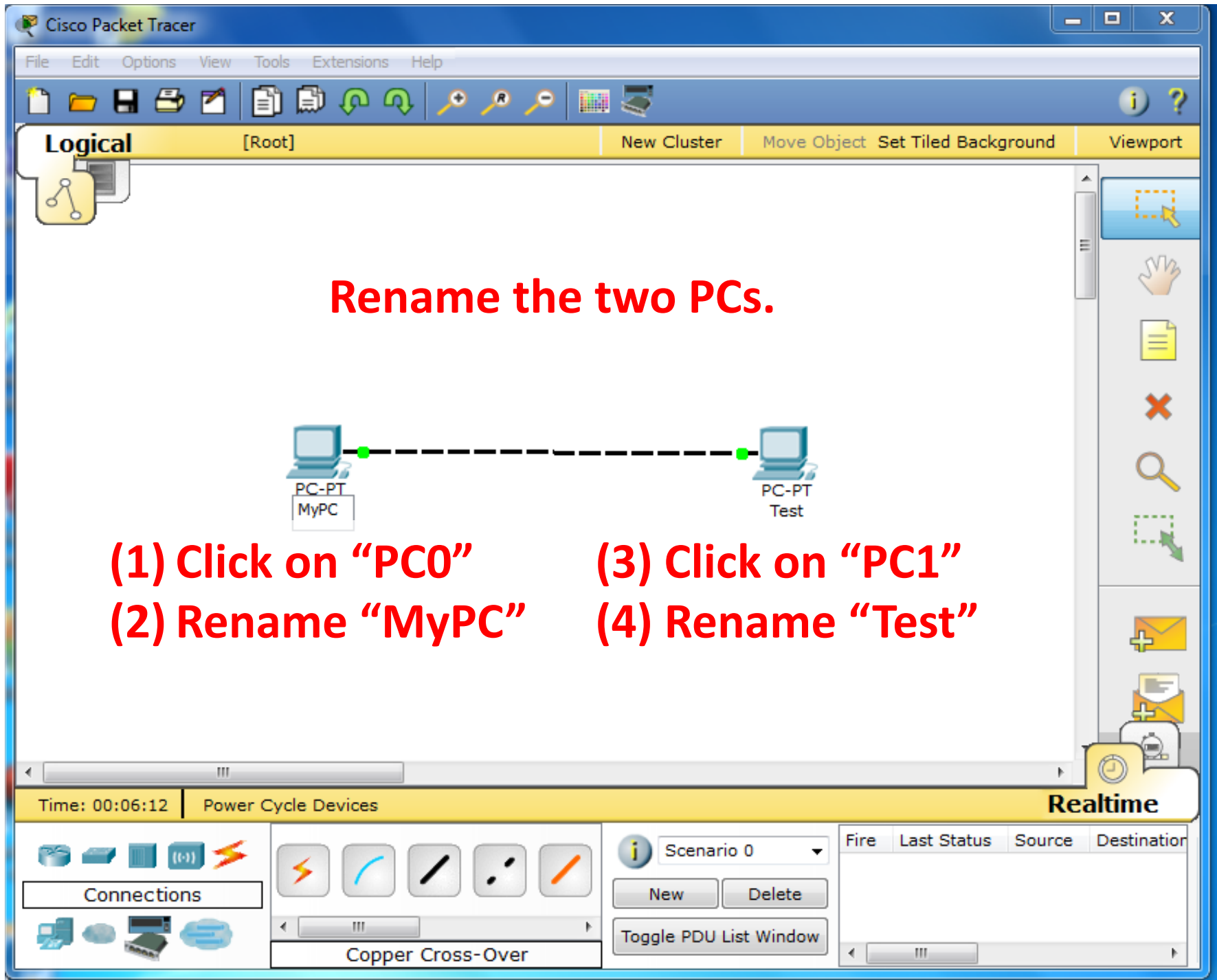


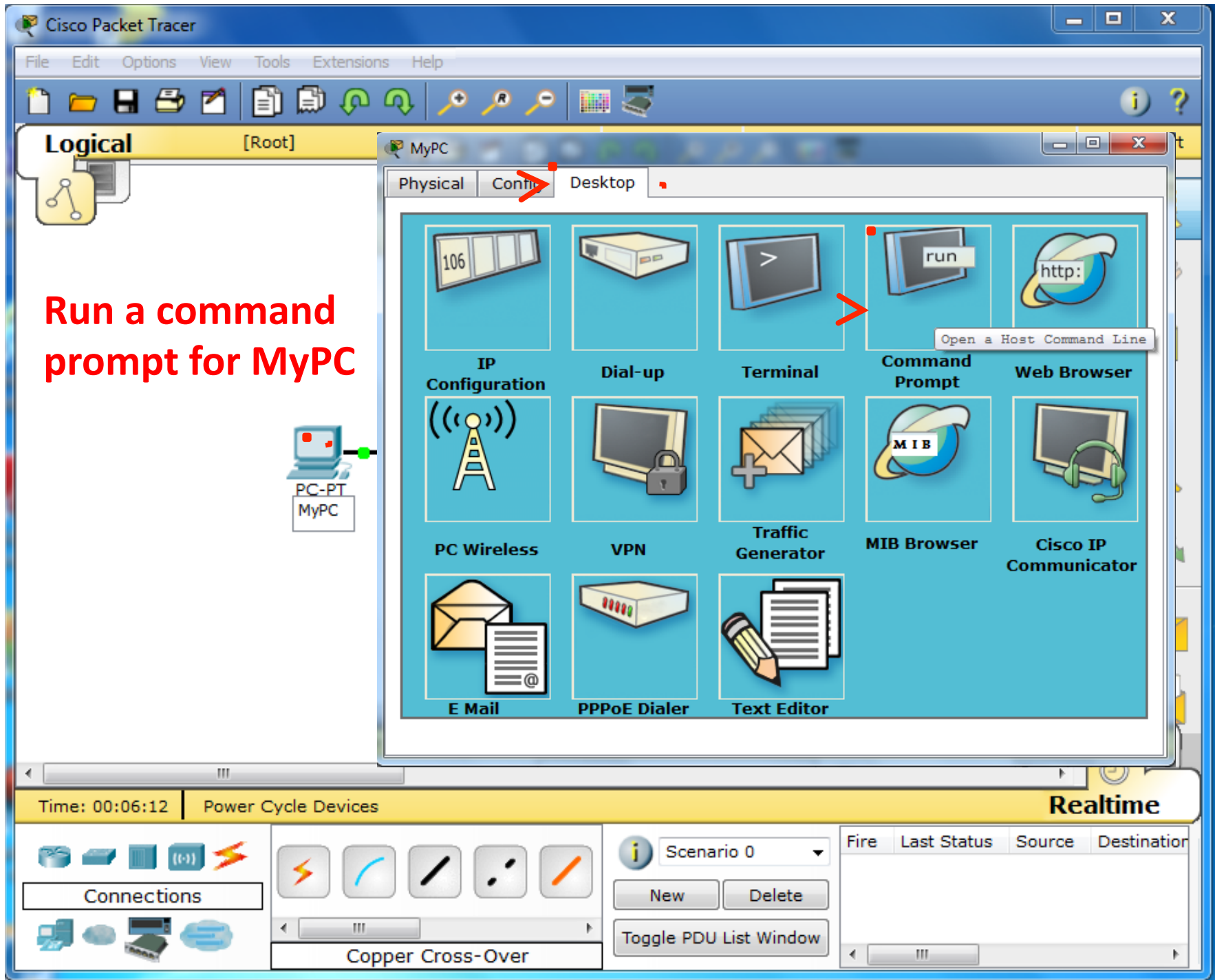


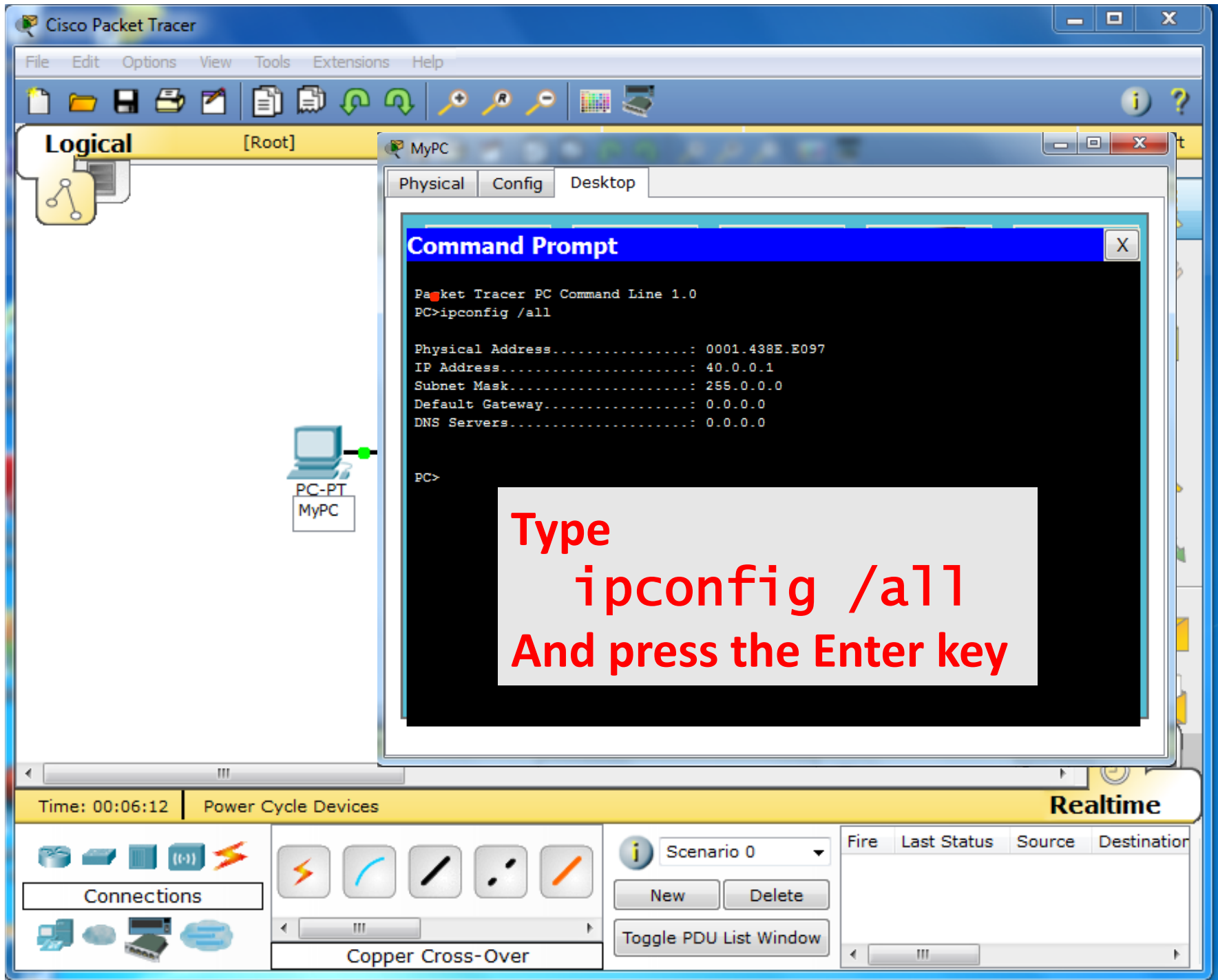
**Enter the IP Address
and the Netmask for
the other PC:
PC0 uses 40.0.0.1
PC1 uses 40.0.0.2**

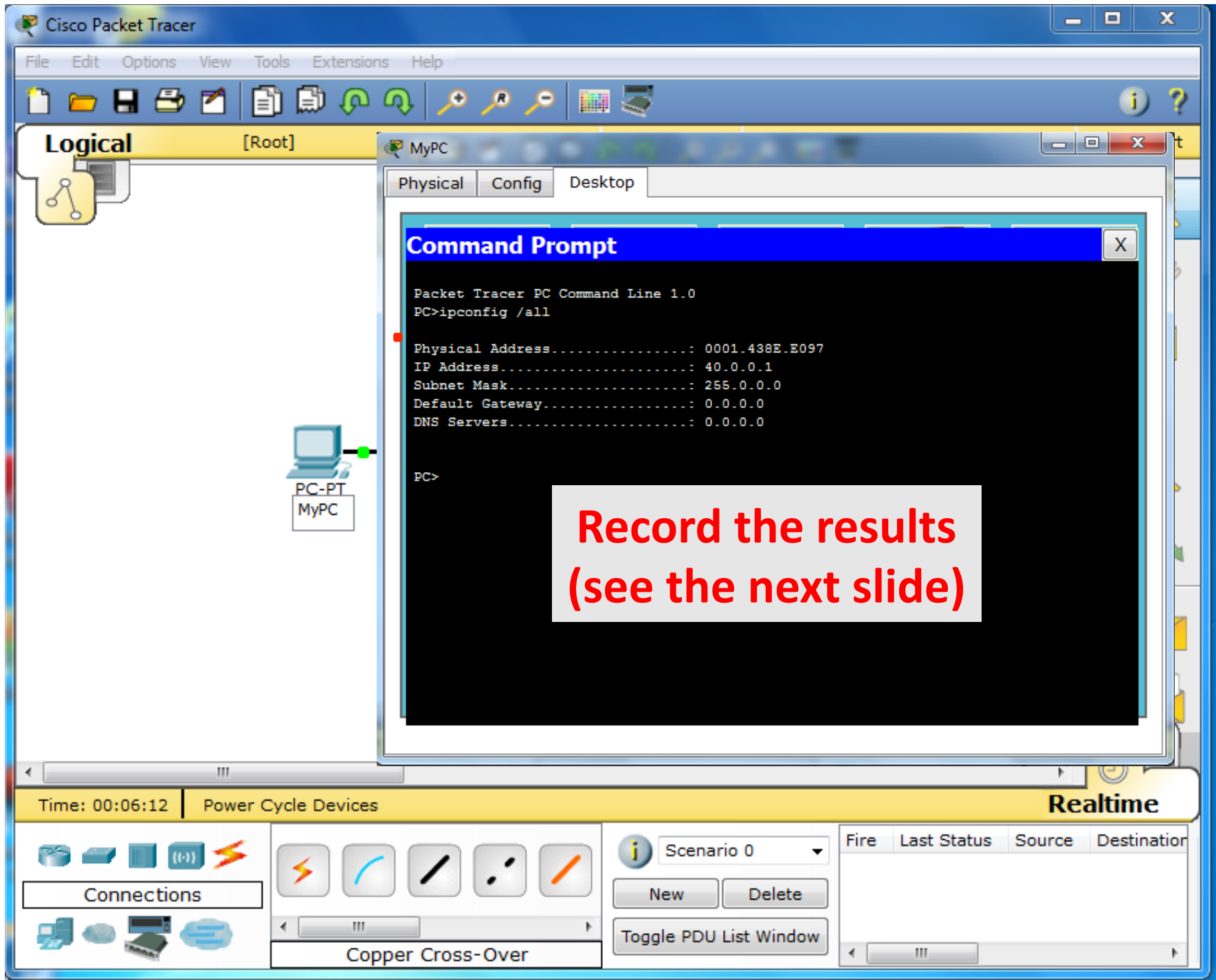








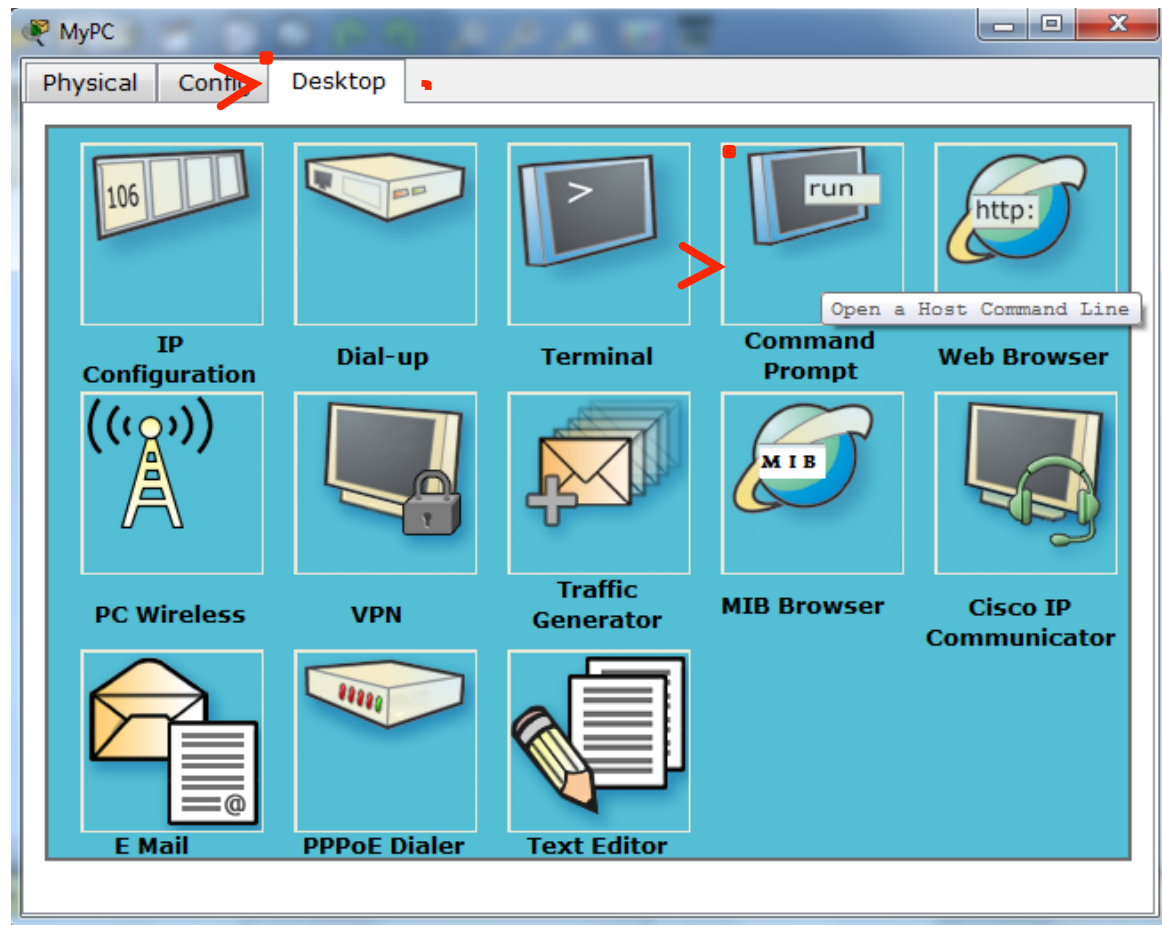
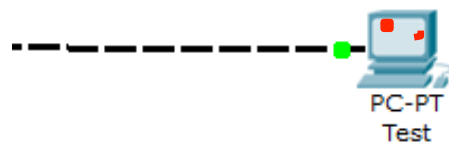


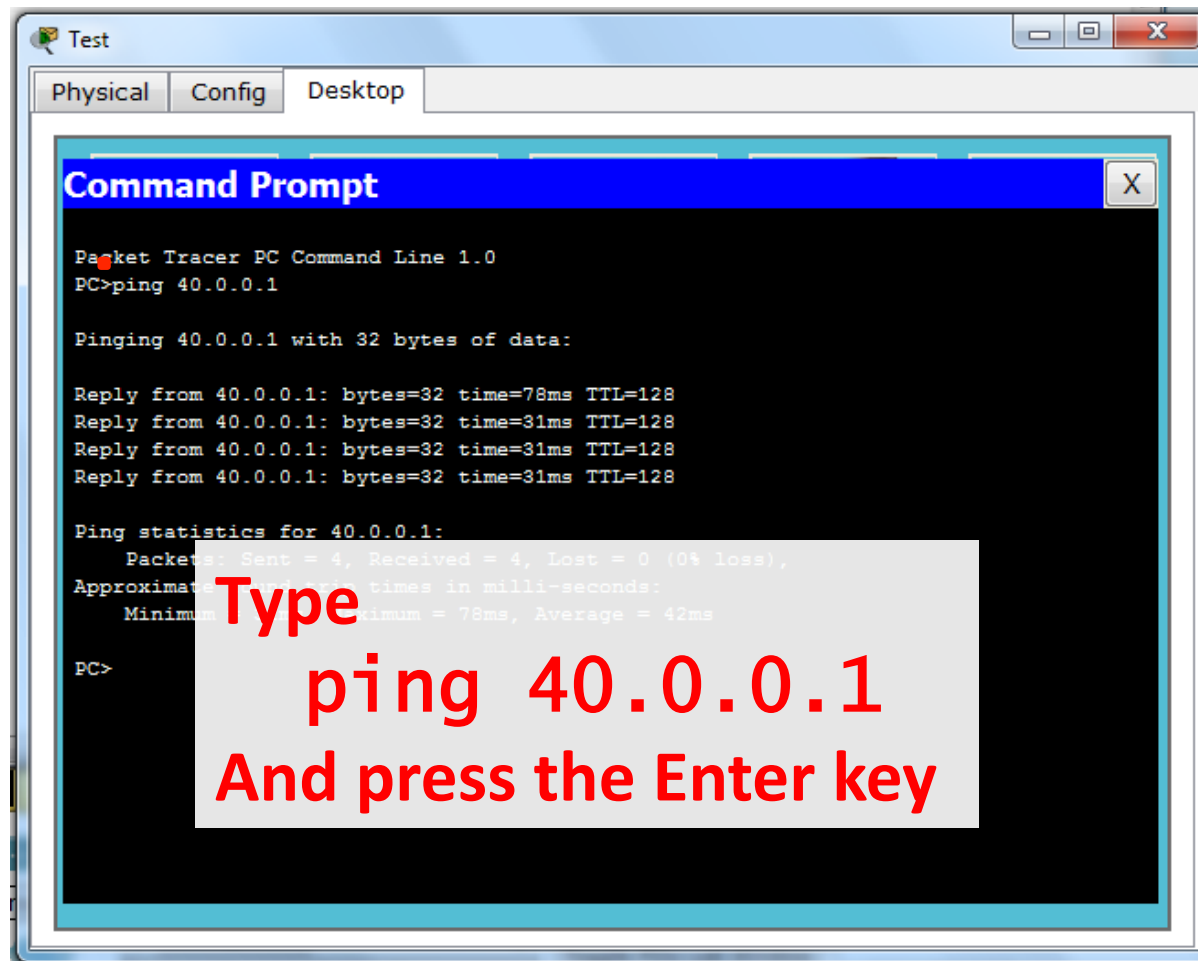


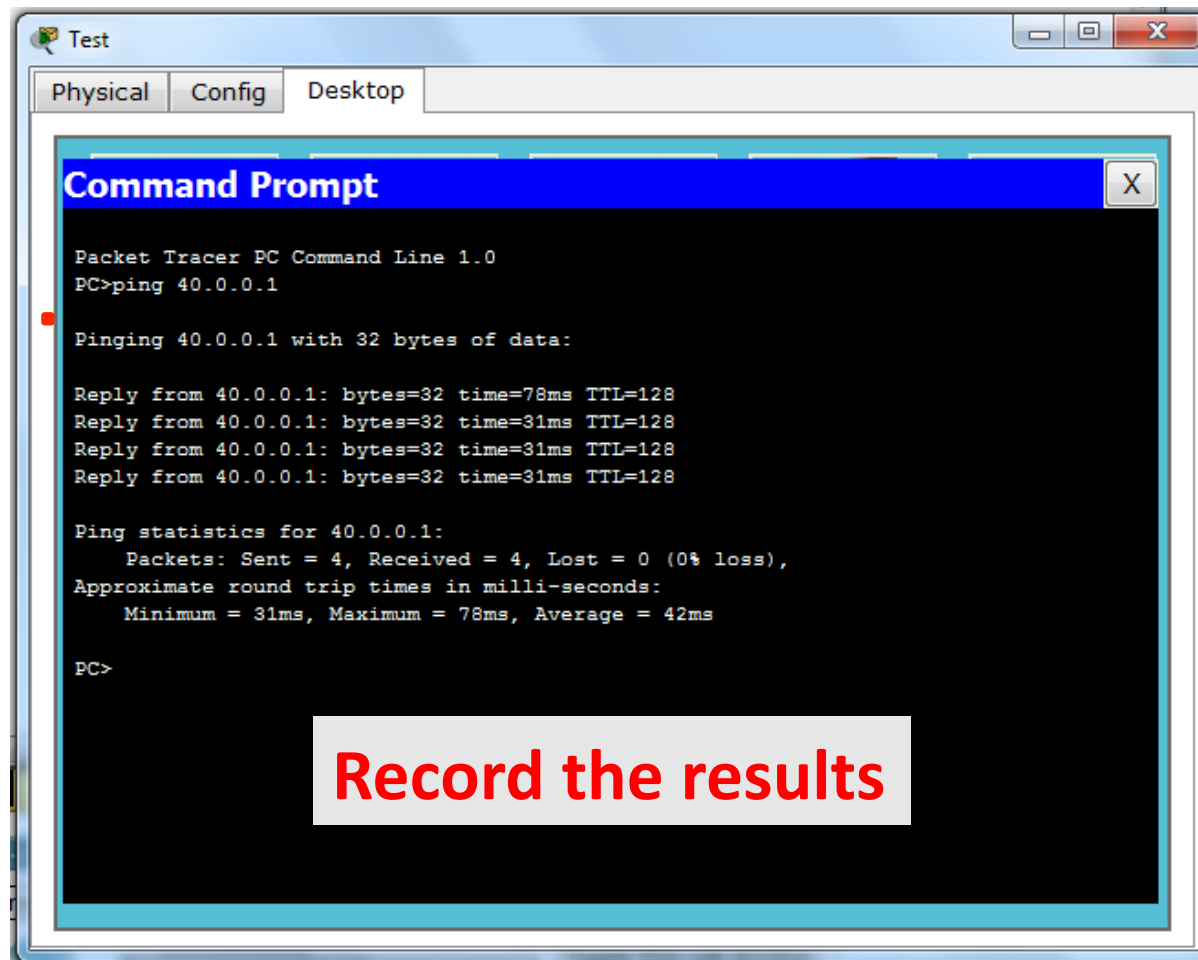
How to Record the Results

- You can do one of the following
 - Give specific answers to the questions
 - Copy/paste text of the command window
 - Save a screenshot
- You're not done . . .
 - After saving this first result result continue on

Run a command prompt for Test







What Did You Just Do?

- You **created a simulation** of a simple network.
- You **set the IP addresses** of two PCs.
- You **renamed** the PCs “MyPC” and “Test”.
- You **confirmed** the IP address of MyPC.
- You **“pinged”** MyPC from Test.
- Recorded the results