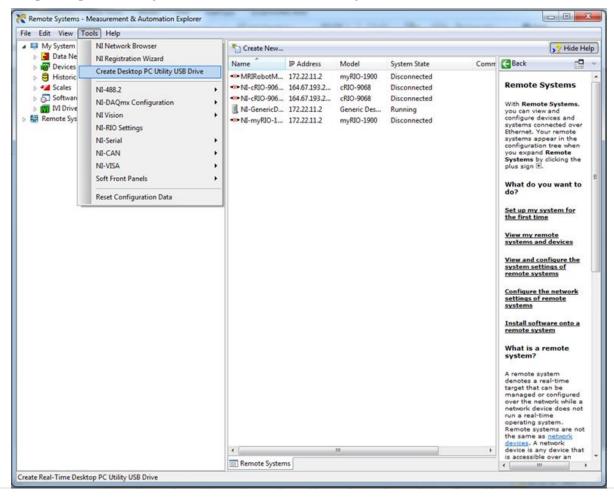
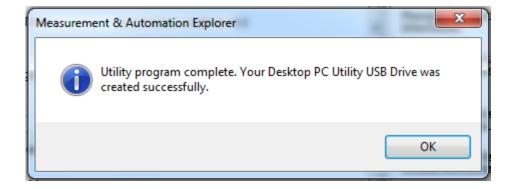
Create USB Utility

- Prepare an USB and connect it to your host computer
- Open NI Measurement & Automation Explorer (MAX) >> Tools >> Create Desktop PC Utility USB Drive
- Click "Yes" when prompted "Do you want to use this utility"



Create USB Utility

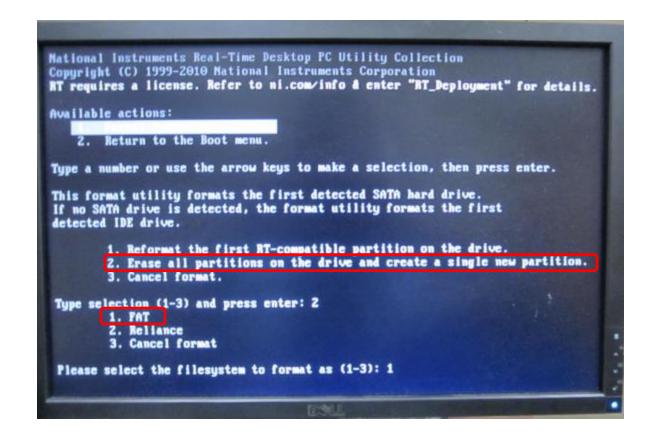
- Choose the version that is compatible with the program, namely, it should be LabVIEW 2013 or higher
- Format your USB when being asked. Once the process finished, click OK when prompted.



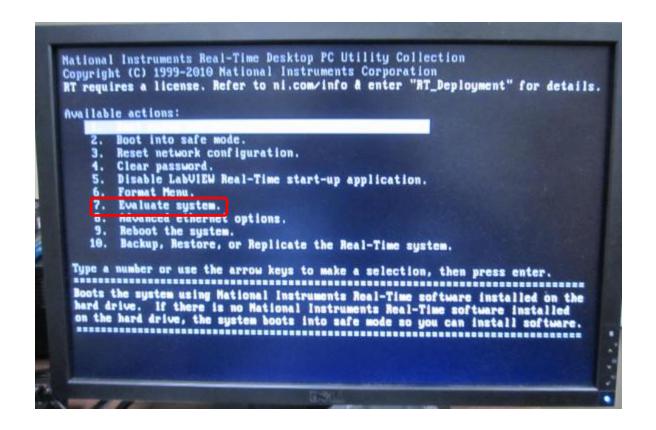
- Choose boot options and boot the target PC using the USB you just created
- A window like below should show up



Creating a FAT32 partition on your real-time PC, or formatting the entire drive as FAT32



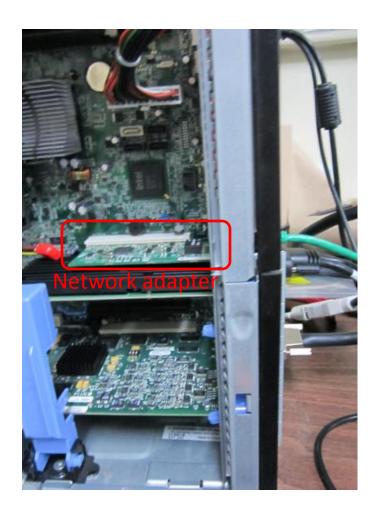
- Again boot from the USB
- This time there will be more options, choose "Evaluate system" to test hardware compatibility on the target computer



- If hardware meets the requirements, you should see "Tested configuration is compatible with LABVIEW Real-Time"
- The most common incompatibility is ethernet chipset. We recommend the following: https://www.amazon.com/Intel-PWLA8391GT-1000-Network-Adapter/dp/B00030DEQE

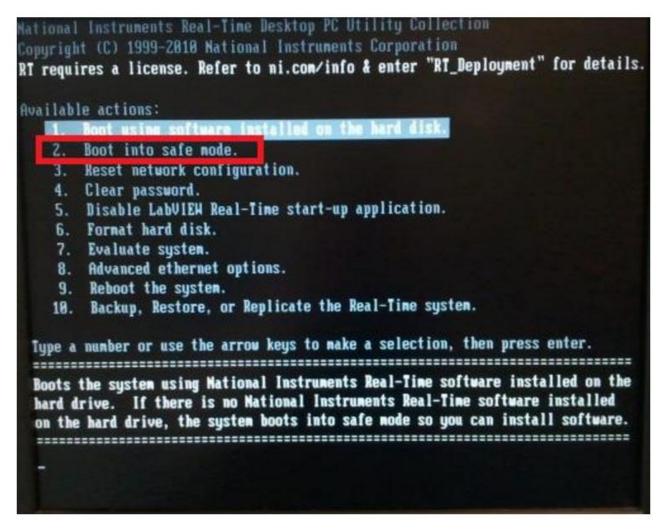


• Shut down the target computer and connect the ethernet cable from your host to the target computer:



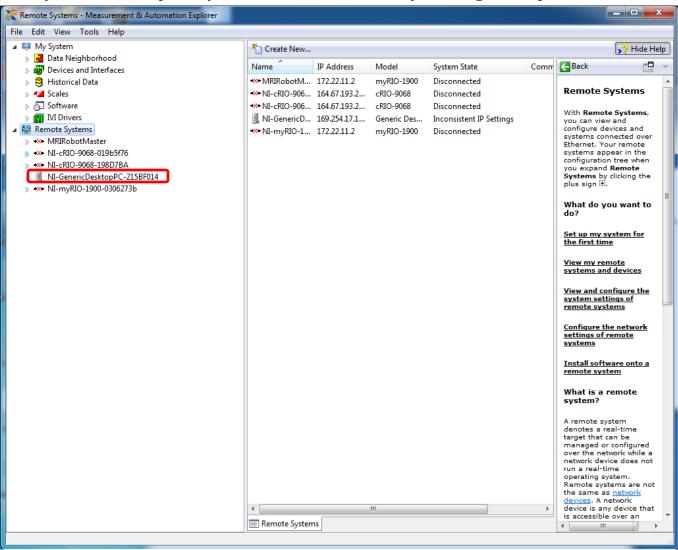


Reboot the target computer using USB drive, this time choose "Boot into safe mode"

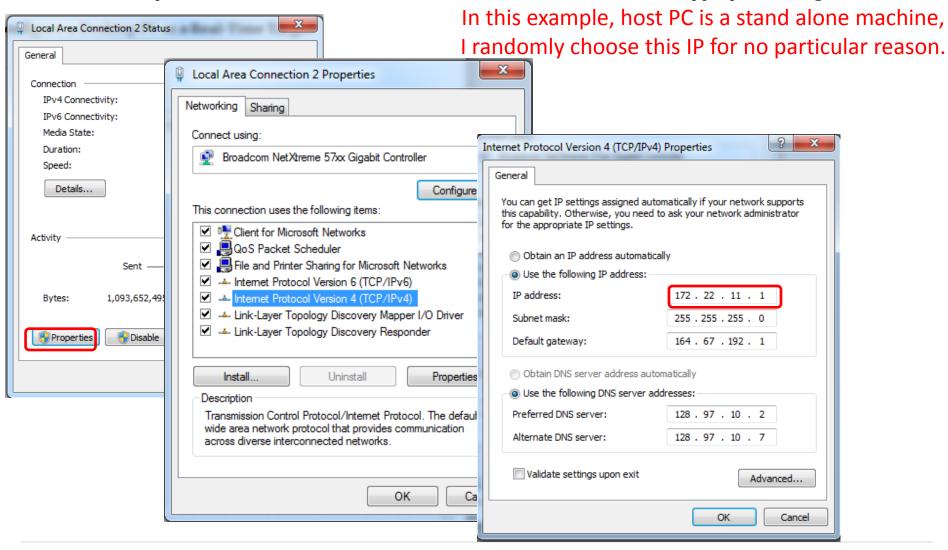


Open NI MAX on your host computer, you should be able to see your target computer under Remote

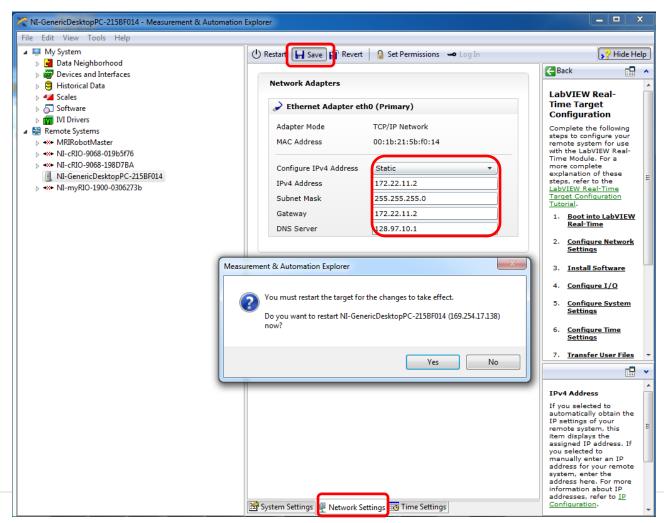
Systems



If host computer is a stand alone PC, create an IP address for it. If not, use the appropriate designated IP.

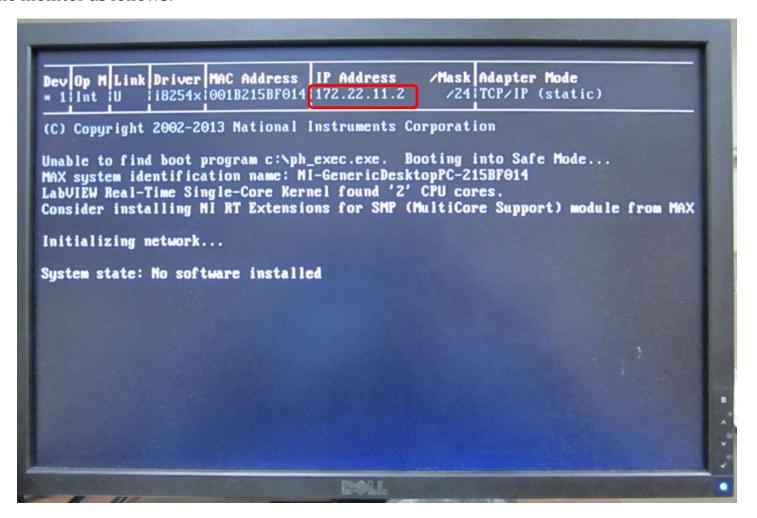


- Click "Network Settings" Tap, and choose "Static" IP address.
- Now set up IP address for the target, one main thing is to make sure they are in the same subnet. Namely, the first 2 entries should be the same. In this example, they are both under 172.22.xxx.xxx. And then save it.

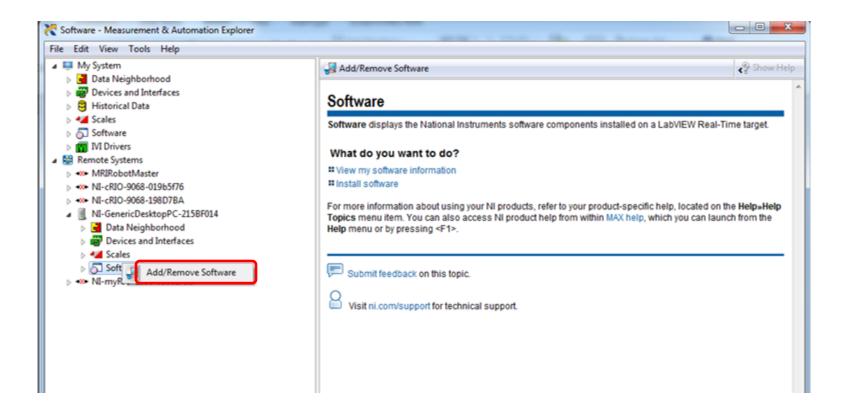


12/19/2016

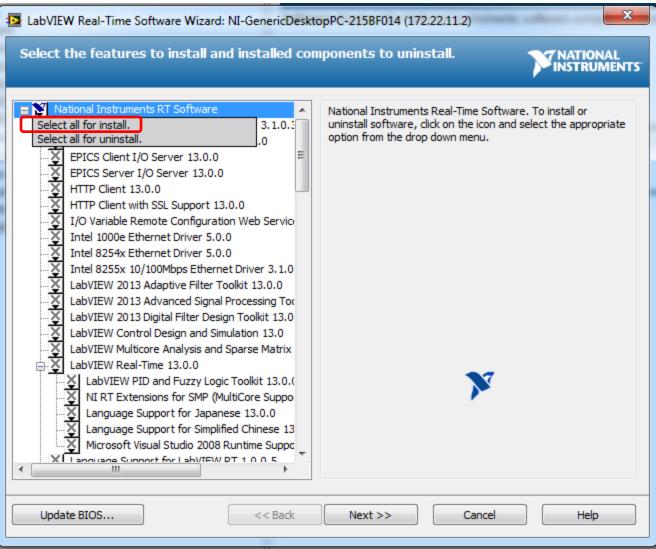
• If everything is running correctly, you should see the IP address being assigned to the target computer on the monitor as follows:



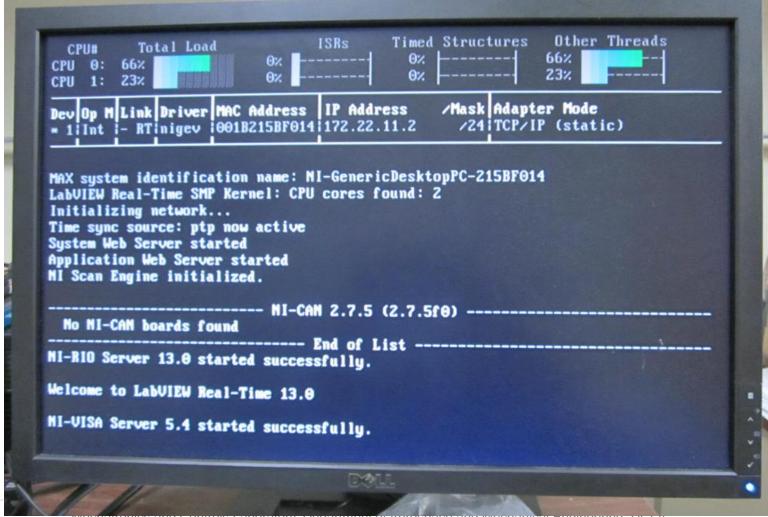
• Also, you should see more options under your target computer in NI MAX. Right click "Software" and choose "Add/Remove Software".



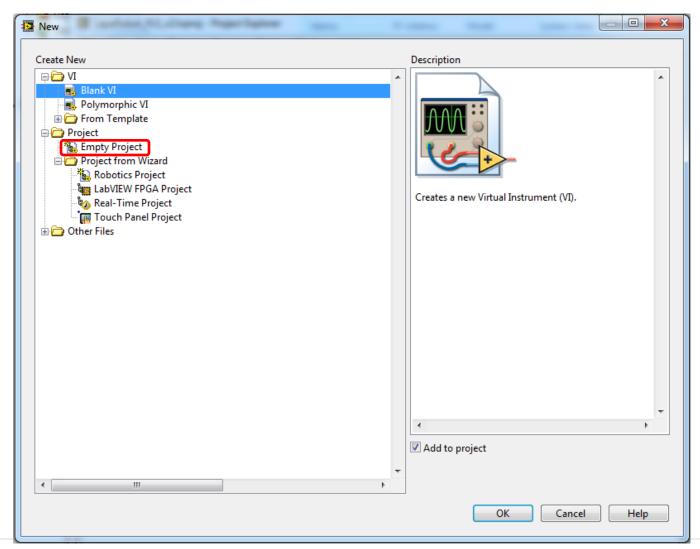
Right click at the top level and choose "Select all for install".



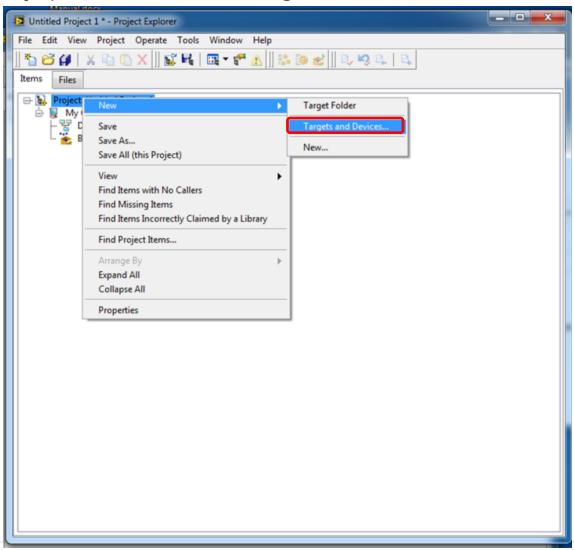
 Once finished, you should able to see the change on the target side, wherein all the software is installed and functioning properly.



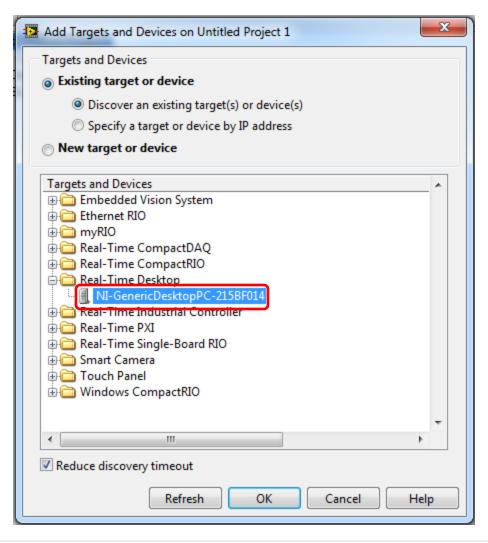
• Open LabVIEW, create a new project



Right-click the project, under "New" select "Targets and Devices"



Select your target PC under "Real-Time Desktop"



• Right-click the target you just created, select "Connect". If it's properly set up, a green light bulb should light up on the bottom right corner

