

# EECS1021 Lab 3 Setup Guide

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*Steven Castellucci (v1.0, January 2016)*

## Hardware Setup

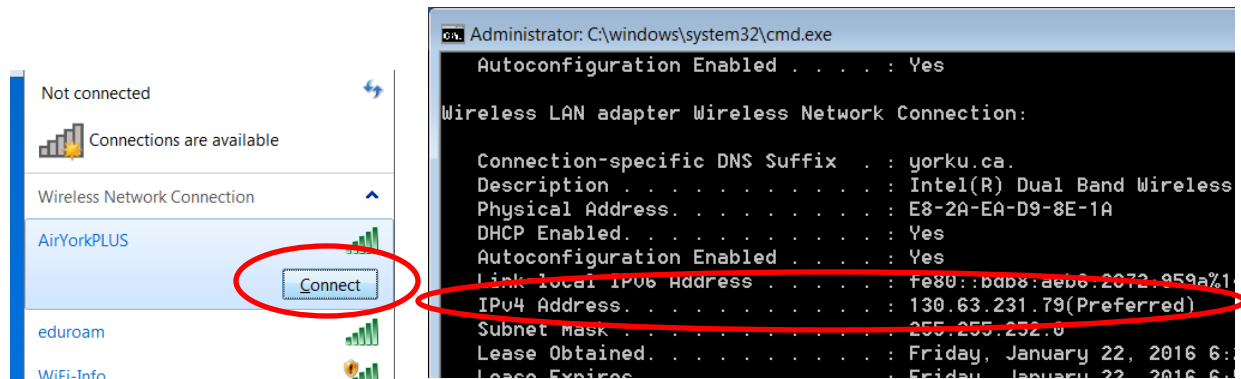
- Laptop and power adapter
- Flag servo and power adapter
- Flag (a Post-It note will suffice)
- Servo control board
- DB9 cable, VGA cable, and USB cable

Plug in and boot the laptop. Connect the VGA cable to the laptop and project the screen to the media stations at each table. Connect the USB cable to the servo controller board and power the controller board with the power adapter. Use the DB9 cable to connect the controller board to the flag servo. Position the flag servo so that it is tilted upward (see picture below), facing the ceiling mounted document camera. Project the document camera to the front boards.

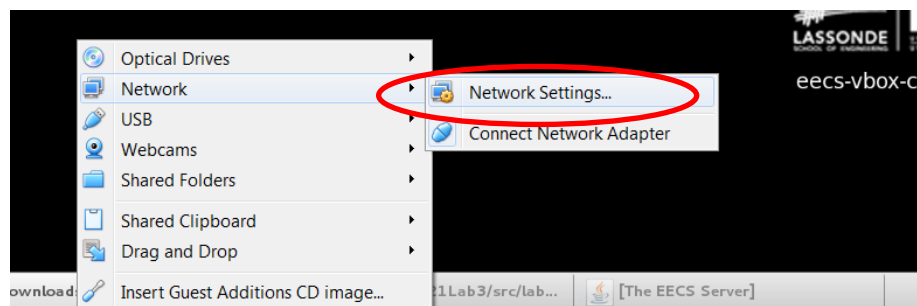


## Software Configuration

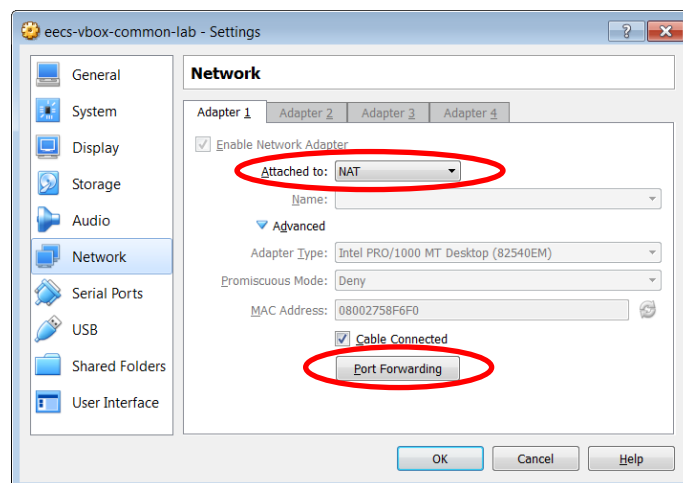
The Ethernet ports near the podium in WSC106 and 108 are not “live”, so you will have to rely on the built-in wireless adapter. Log-in to AirYorkPlus using your employee credentials (Grad Student or Faculty) to get an IP address of the form 130.60.x.x. Run the command `ipconfig /all` to find your actual IP address.

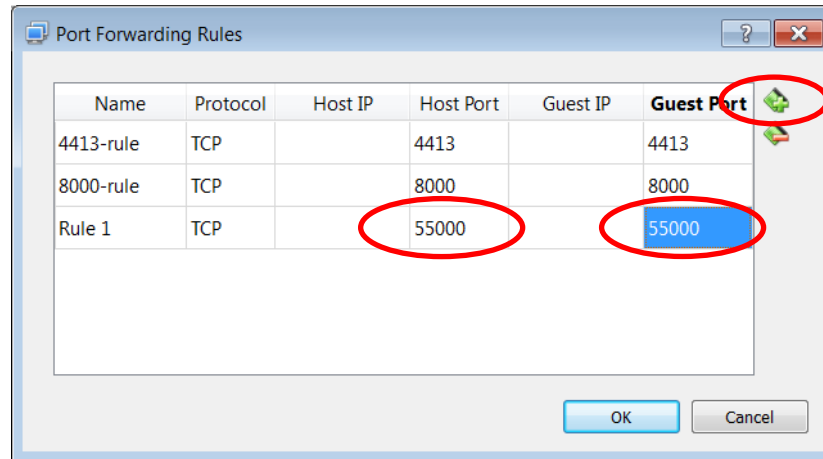


Start the First Year VM. Hover your mouse over the bottom of your screen, then select Devices, Network, and Network Settings.



Under “Attached to”, NAT should already be selected. Click on Port Forwarding and create a new rule. Forward port 55000 from the host to port 55000 on the guest.





Copy the `FlagServer.jar` file to the VM (e.g., on the Desktop), open a Terminal to that location, and start the server with the command `java -jar FlagServer.jar`

Accept the default font size and port number. Enter the IP address of the host from `ipconfig` (e.g., 130.63.x.x). Once started, the servo should move to its rest state and the server will wait for a connection.

