**Set up Jetson Heedlessly**

**(No needs to have HDMI monitor and additional keyboards or mouse)**

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* In general, follow the link:
  + <https://www.jetsonhacks.com/2019/08/21/jetson-nano-headless-setup/>
* **Step 1. Gather the parts**
  + Jetson Nano
  + 5V 4A Barrel Jack Power Supply
  + Micro USB cable
  + SD Card (64GB or 128GB)
  + Network card or Edimax EW-7811Un
  + **May need** Header jumper - which should be supplied with the most recent versions
* **Step 2. Download the Nano SD card image**
  + For example Go to the
  + <https://github.com/NVIDIA-AI-IOT/jetbot/releases/tag/v0.4.3>
  + Download “**JetBot SD card image jetbot-043\_nano-4gb-jp45**” on your local system
  + Format the micro-SD card and flash the downloaded file on you micro-SD card using Etcher
* **Step 3. Make sure to Install your network card or dongle**
  + In case of jetson nano the antenna card is the wifi card that must be installed and fix with additional care
* **Step 4. Insert the microSD card**
  + To jetson nano microSD slot
* **Step 5. Set the power jumper**
  + If needed
  + As far as I know our system doesn’t need it
* **Step 6. Connect the Micro-USB cable**
  + Plug the Micro-USB cable into the Jetson Nano
  + Plug the other end into your computer or laptop
* **Step 7. Plug in the power jack**
  + Plug one end of the 5V 4A power supply into the barrel jack on the Jetson Nano
  + Plug the other end into a wall socket or power strip
* **On Linux or Mac**
* **Step** **8-1. Wait for the Jetson Nano to boot up**
  + Wait for a drive to appear on your desktop
  + It may be labeled LT4-README
* **Step 8-2. Look for the new device**
  + In a terminal type *“ls -ls /dev/cu.\*”*
  + You should see a device like this: *“/dev/cu.usbmodem14231190531643”*
  + If you see multiple devices that start with /dev/cu.usbmodem, unplug the Micro-USB cable from the Nano so you can figure out which one it is.
* **Step 8-3. Connect over USB**
  + If you have only one device or you know which device, then you can connect to the Jetson Nano from the terminal using this command:
  + screen /dev/cu.usbmode\* 115200 -L
* **Step 8-4. Fill in the config info**
  + You should now see a screen and answer questions, including:
  + If Ok isn't highlighted, press Tab
  + Press Enter
  + Accept the license agreement (Press Tab / Enter)
  + Select your language (in my case English / Tab / Enter)
  + Select your country (in my case United States / Tab / Enter)
  + Select your timezone (in my case Eastern / Tab / Enter)
  + Select UTC (the recommendation is to select Yes / Enter)
  + Select a new user name (in my case mitch / Enter)
  + Select a password (enter something unique then Enter)
  + Confirm the password (enter it again, then press Enter)
* **Network configuration**
  + You must be able to connect to your local wifi using following command:
  + sudo nmcli device wifi connect **SSID name** password **\*\*\*\*\*\*\*\*\***
* **Step 8-5. Shutdown/reboot the Jetson Nano**
  + sudo shutdown -h now/reboot
  + Enter your password for the Nano
  + Wait for the lights on the Nano to go out
* **Step 8-6. Test over WiFi**
  + Plug the barrel power jack back into the Nano and wait a minute or two for it to boot up
  + From a laptop on the same network login over WiFi via ssh
  + Since your username is **“jetbot”** and your Jetson Nano hostname is **“jet”** then use the following code: “ssh jetbot@jet”
* **Step 8-7. Find the IP address**
  + Use “*ipconfig*”
* **On Windows**
* **Step 9-1. Setup On Windows**
  + This is where the difference is between Windows and other OS.
  + You’ll need to find the “COM” port it is connected to by going to **Windows Device Manager**.
  + How you find out which one it is I have no idea.
  + I knew mine was COM10 at the time because COM3 was my keyboard and COM4 is a barcode scanner which I can see appear and disappear when I unplug it.
* **Step 9-2. Install and Open putty**
  + Set the connection type to Serial.
  + Go back and set the Serial line to the COM port the Jetson is on.
  + The speed needs to be 115200.
  + Leave everything else and press Open at the bottom.
  + If it’s successful, then the welcome screen will appear and follow the onscreen instructions.