# Setting Up/Using the Nvidia Jetson AGX Xavier

1. Connect Jetson by USB 3.0 to a host PC running Ubuntu Linux x64 v16.04 or v18.04 and plug Xavier into wall with given power cord
2. Connect Jetson to network via Ethernet, either directly or through host PC. Make sure both are on the same network regardless.
3. Connect keyboard and mouse to Xavier
4. If setting up for the first time or updating OS follow instructions given within Jetson Xavier for putting it into in forced recovery mode
   1. Download or use NVIDIA SDK Manager installed on host computer to flash OS onto Jetson Xavier
   2. While the OS is being flashed connect Jetson to Xavier via HDMI to external monitor.
   3. When prompted on the Xavier, configure system with username and password of your choice
   4. Once all this setup is complete, you will be asked to enter the username and password you just created on the host computer to finish installation
   5. This completes setup of Jetson Xavier. Good Luck!
5. If just using Xavier normally, log in with username and password and get to work

# Extra Stuff

* For installing TensorFlow, PyTorch, and starting object detection, follow information in links on GitHub.
* Jetson is great for prototyping, but I recommend only coding on Xavier when absolutely necessary for debugging, because it is slow and does not have the best choices for IDE and debugging.
* You have limited I/O so use a USB hub to maximize usefulness
* The Jetson has limited storage capacity, so I recommend installing a NVMe SSD