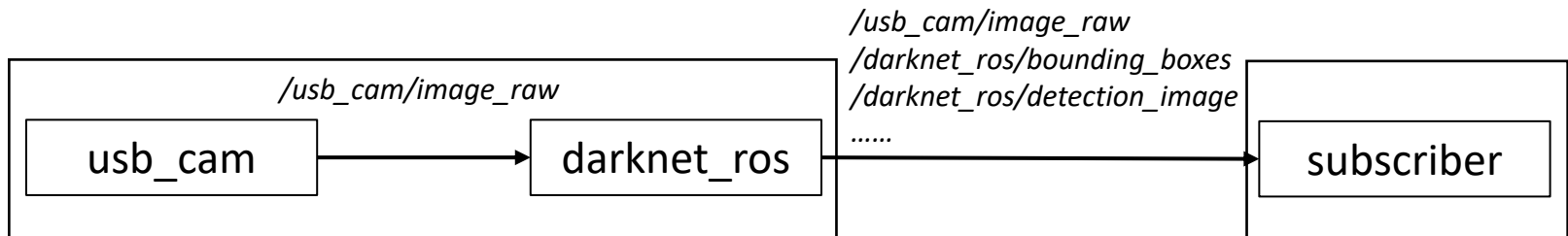
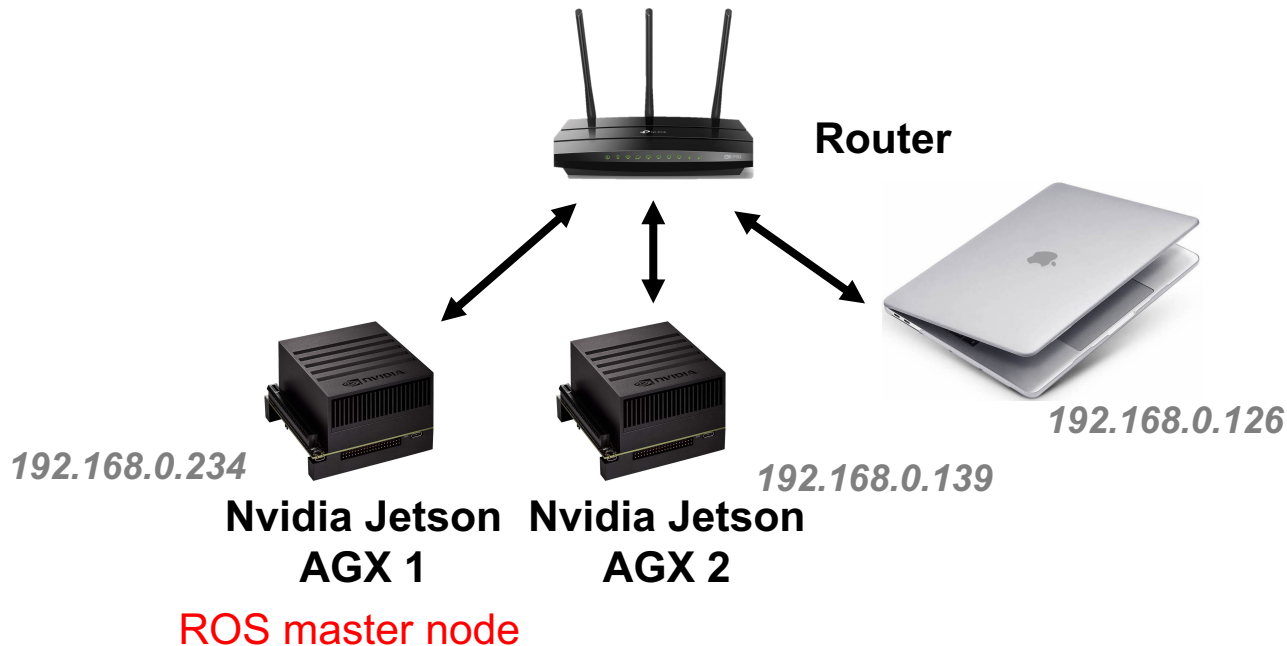


Demo of Docker with ROS1.0



Ongoing Work

- Performance profiling of the object detection model on ROS 1.0
- Build RT/Generic kernel on Jetson AGX board
- Compare the impact of RT/Generic kernel to the performance of Docker container with ROS 1.0

ROS 1.0 and ROS 2.0

- Communication:
 - inter-process communication vs shared memory
- Centralized/Decentralized:
 - ROS master required/not required
- Security:
 - security concern with ROS 1.0
 - DDS-Security

Plan of Work

- Build a docker container with ROS 2.0 and set up object detection demo
- Compare the performance of ROS 1.0 and ROS 2.0 in terms of memory footprint, latency, etc.