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* This Document explains the procedure for setting up TCP IP server-client channel.
* Server: Jetson Orin Nano
* Client: Raspberry Pi
* Raspberry Pi send random generated data to Jetson, Jetson will use it as input to the trt model, perform prediction and sends back to the PI
* The entire data transfer protocol is seamless and gives you a general idea of the setup
* **Folder Information: TCP IP Test**
* client\_side\_test.py
* server\_side\_test.py

**Setup:**

Connect the 2 devices via ethernet cable

Jetson: Link Local in Wired Settings

Pi: Link Local in Wired Settings

Do the above setting in the ipv4 and ipv6 in the network setting

Start the server first (Jetson) by running the server\_side\_test.py

Start the client next (Pi) by running the client\_side\_test.py

You should see data transfer

IP Address in both the code has to be set to the IP address of the Jetson Orin Nano (server)

PORT in both codes needs to be selected such a way that they are not used in either of the devices. Higher the number say PORT = 10000, it is likely that it is not used.

Please find **TCP IP Test** folder at:

<https://github.com/Pavan-r-shetty/tcp_ip_test.git>