

# If you do not have a PLC to practice MODBUS!

There might be one case where you **don't have a PLC to practice MODBUS command**.

In this situation, I would recommend you to try **using virtual adapter** to make **virtual connection with MODBUS Client or Server**. If you don't know how to do it, check out the following video on YouTube, in which I did the same to link TIA Portal PLCSIM with SCADA without real PLC, just on simulation:

<https://www.youtube.com/watch?v=96ZsLDvZXbU>

Once, you built the connection between PLC and Virtual adapter you can link Siemens PLC with Node-RED to practice MODBUS lesson.

Another solution is to use **PLCSIM Advanced** which comes with **inbuilt Virtual adapter** :)

**Easy peesy lemon sweezy!**

## What is Node-RED?

Node-RED is an **open-source software** based on flow based programming. This is such an **amazing programming tool** that allows almost all interfaces of the **Internet of things**. The icing on the cake is that this tool is **open-source** and there is a big support community to help you with problems.

You can interface almost all communication technology like **MODBUS**, **OPCUA**, **MQTT**, **MySQL**, **Ethernet**, **JSON**, **Cloud** Interfacing with your current controller.

