

Elena Kutanov

Germany

<https://www.linkedin.com/in/elena-kutanov-42b8a99/>

Setup guide

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What parts are needed for the project

Minimal Raspberry Pi set



Raspberry Pi

For the project was used the version 4 B+, but it's also possible with version 3.

Power adapter

From the 4th version it's also needed a special power adapter.

MicroSD

For the Project used MicroSD 32 GB, but it can be also 8 or 16 GB.

At the laptop was not able to connect LAN, so was used the SD-slot and SD-Adapter for the activation.

It's also good to by the box for Raspberry Pi to keep it clean and the fan, because Raspberry Pi 4 gets hot.

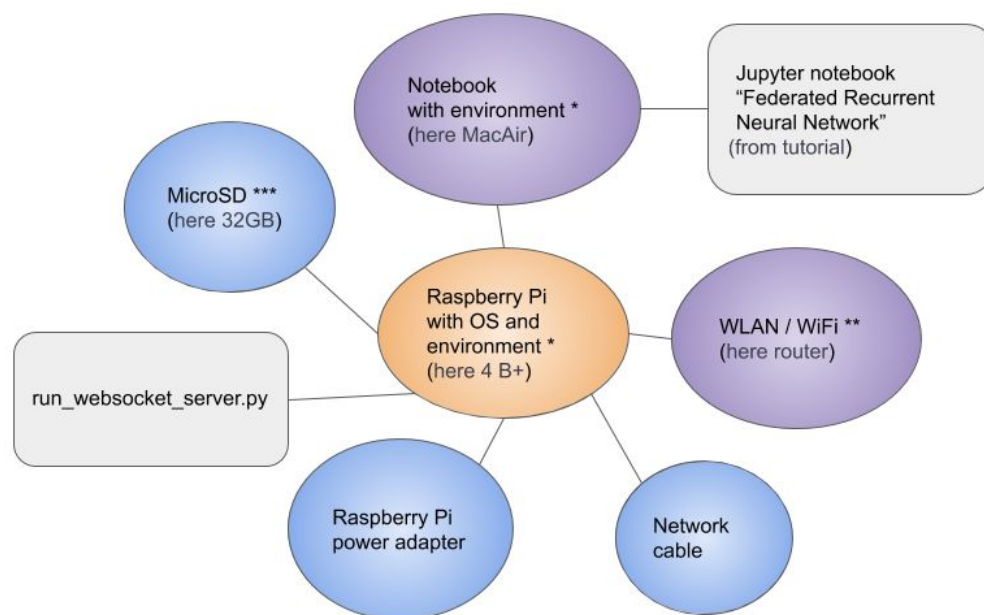
Minimal environment set

Hardware

- **Laptop or computer** with installed PySyft, PyTorch, Python 3.6. Current python version is 3.7.4 and 3.8(pre), 3.9(dev), but for this project referenced not more as 3.6.8.
- **Connection to the internet.** In the project will used a router and the Raspberry Pi will connected with network cable with it.

Software

- On the laptop will working **jupyter notebook “Federated Recurrent Neural Network”** from PySyft/examples/tutorials/advanced/
- At the Raspberry Pi you will need to start **run_websocket_server.py** with the ip adresse, port, id from the PySyft/examples/tutorials/advanced/websockets-example-MNIST



* Environment
 - PySyft
 - PyTorch
 - Python, etc.

** There are no any LAN port at the laptop, that why used WLAN.

*** Micro SD to SD Adaptor used here to do some settings on MicroSD by SDport on mac

MicroSD card activation

Ssh... TODO

