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Setting up the CPP

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Hardware Requirements

One or more x86 (or x86-64) machines running a recent Linux distribution and supporting OpenVSwitch (2.3 or higher) with at least two Ethernet ports.

The reference operating system for this guide is Ubuntu 18.04.

Software Requirements

The following commands will update the package repository and install some dependencies:

```
sudo add-apt-repository universe
sudo apt-get update
sudo apt-get install build-essential openvswitch-switch python3-pip git
```

We recommend to use pip to install all the required python packages:

```
sudo pip3 install websocket-client
```

Compilation Process

Clone the empower-lvnf-agent git repository (this will provide the actual EmPOWER LVNF Agent):

```
git clone https://github.com/5g-empower/empower-lvnf-agent.git
```

Clone the empower-lyap-agent git repository (this will provide the click executable and the LVNFs):

```
git clone https://github.com/5g-empower/empower-lvap-agent.git
```

Compile and install click:

```
cd empower-lvap-agent
./configure --disable-linuxmodule --enable-userlevel --enable-wifi --enable-empower --e
make
sudo make install
```

Configuration Process

You now need to configure the system to use OpenVSwitch.

Create a new OpenVSwitch bridge:

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sudo ovs-vsctl add-br br0

Then add the ports to the new bridge:

sudo ovs-vsctl add-port br0 en2

Link the executable:

sudo ln -s ~/empower-lvnf-agent/empower-lvnf-agent.py /usr/bin/empower-lvnf-agent

Link the init script:

sudo ln -s ~/empower-lvnf-agent/scripts/empower-lvnf-agent /etc/init.d/

Link the rc.local script:

sudo ln -s ~/empower-lvnf-agent/scripts/rc.local /etc/

Starting the CPP

At this point you can start the LVNF Agent with:

sudo /etc/init.d/empower-lvnf-agent restart

Clone this wiki locally

https://github.com/clic|

https://github.com/clicknf/clicknf.github.io/wiki/Setting-up-the-CPP