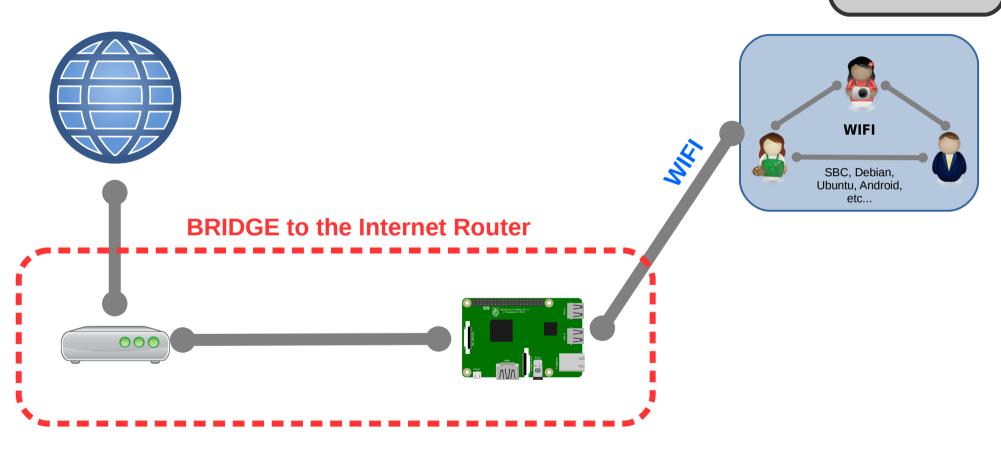


Doc v1.0

"WL" stands for WEBELIVE, a series of small tutorials to use open source tools to connect devices in direct, private, secure P2P fashion

B3.3.0



**Soft used:** hostapd + bridge-utils

B3.3.1

Install the bridge-utils software:

sudo apt install bridge-utils

B3.3.2



/etc/network/interfaces

Configure system interfaces:

sudo nano /etc/network/interfaces

Add the following 3 lines at the end:

auto br0
iface br0 inet manual
bridge\_ports eth0 wlan0

#### Where:

"br0" is the bridge network adapter that will be created

"eth0" is the external cable LAN network adapter

"wlan0" is the internal wireless adapter (wifi)

B3.3.3



/etc/hostapd/hostapd.conf

Modify the hostapd configuration file:

sudo nano /etc/hostapd/hostapd.conf

Add the following line, so that the software hostapd can use the bridge that you have created in the previous steps

bridge=br0

B3.3.4

Restart the system:	
sudo reboot	

# 3 INDEPENDENT, VERY EASY TUTORIALS

Running all 3 experiments, or reading all 3 tutorials, should be enough to help the user to get a very good basic understanding about the subject. From there, the user can choose a combination appropriated for a specific objective.

**TUTORIAL 1 - Peer WiFi + Net Sharing, Manual IP** 

1A Peer WiFi Manual IP

1B Peer WiFi + Net Sharing

**TUTORIAL 2 - P2P WiFi + Net Sharing, Auto IP** 

2A P2P WiFi, Auto IP

2B P2P WiFi + Net Sharing

**TUTORIAL 3 - Internet Router Bridge** 

#### **TUTORIAL 1 - Peer WiFi + Net Sharing, Manual IP**

1A Peer WiFi Manual IP

1B Peer WiFi + Net Sharing

hostapd

hostapd + iptables rules

### **TUTORIAL 2 - P2P WiFi + Net Sharing, Auto IP**

2A P2P WiFi, Auto IP

2B P2P WiFi + Net Sharing

hostapd + dnsmasq

hostapd + dnsmasq + iptables rules

## **TUTORIAL 3 - Internet Router Bridge**

hostapd + bridge