

# TUTORIAL 3 - Internet Router Bridge

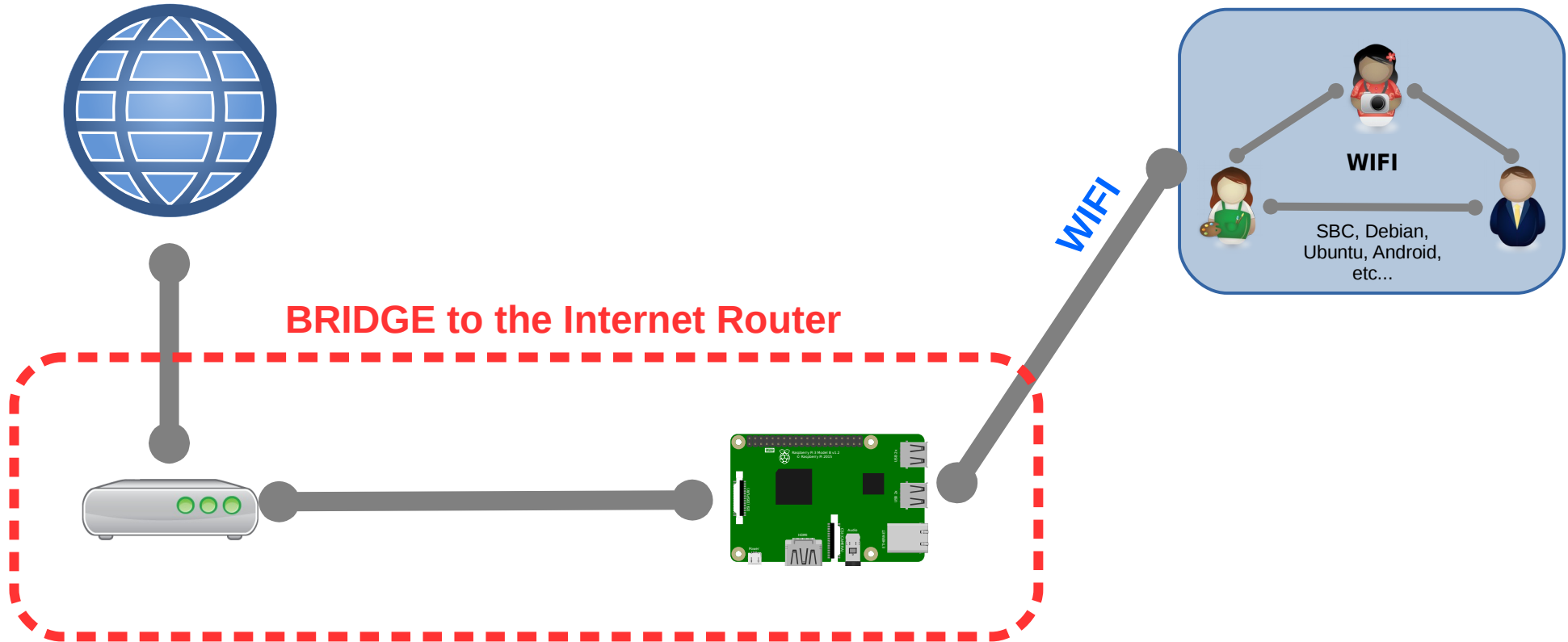


Doc v1.0

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

# TUTORIAL 3 - Internet Router Bridge

A3.3.0



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

# TUTORIAL 3 - Internet Router Bridge

**A3.3.1**

Install the bridge-utils software:

```
sudo apt install bridge-utils
```

# TUTORIAL 3 - Internet Router Bridge

A3.3.2



/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)

## TUTORIAL 3 - Internet Router Bridge

**A3.3.3**



/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
```

## TUTORIAL 3 - Internet Router Bridge

**A3.3.4**

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

**hostapd**

1B Peer WiFi + Net Sharing

**hostapd + iptables rules**

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

2A P2P WiFi, Auto IP

**hostapd + dnsmasq**

2B P2P WiFi + Net Sharing

**hostapd + dnsmasq + iptables rules**

## TUTORIAL 3 - Internet Router Bridge

**hostapd + bridge**