TUTORIAL 2 - P2P WiFi + Net Sharing, Auto IP

2A P2P WiFi, Auto IP

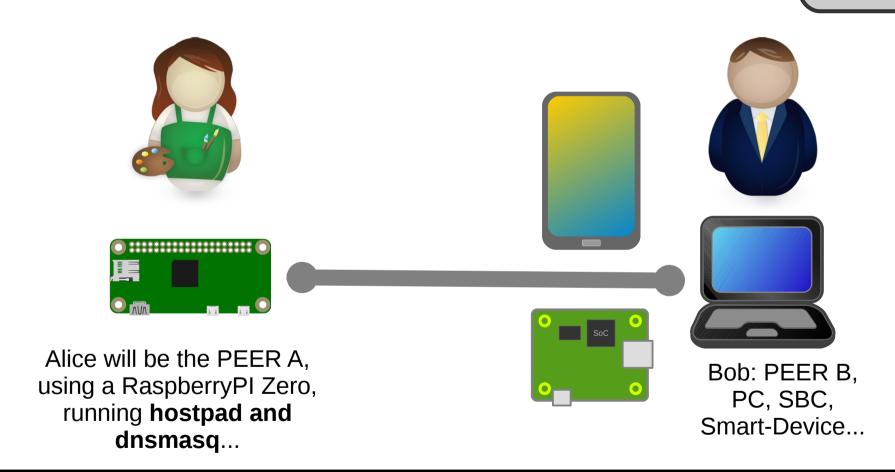
2B P2P WiFi + Net Sharing



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

B2.3.0



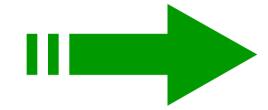
Soft used: hostapd + dnsmasq

B2.3.0

hostapd

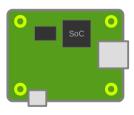
dnsmasq

dnsmasq will automatically assign IP Address Numbers to all peer-guests that connects to the WIFI Network!









Peer(guests)

Soft used: hostapd + dnsmasq

hostapd

in **exact the same**way described in the tutorial 1 (peer wifi)

Instructions
A2.x.x = A1.x.x
Please use the same Instructions

dnsmasq

dnsmasq is quite simple to install and setup, just need to add 2 lines to config.

The new instructions are here:

B2.3.x

B2.3.1

Install the dnsmasq software:

sudo apt install dnsmasq

Stop the software, so that we can configure it:

sudo service dnsmasq stop

If you get error on the installation step, then update your system and try again:

sudo apt update

B2.3.2



```
Create/Modify the dnsmasq configuration file:
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sudo nano /etc/dnsmasq.conf

Add the following instructions (lines):

interface=wlan0 dhcp-range=192.168.50.50,192.168.50.100,255.255.255.0,24h

B2.3.3

Start the dnsmasq software:

sudo service dnsmasq start

Done, now you can connect peer-guests without the need of manual IP Address setup!

Just choose the SSID and enter the password/passphrase.

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