cat /etc/rc.local

iptables-restore < /etc/iptables.ipv4.nat

# Generated by iptables-save v1.4.21 on Wed Jul 5 18:44:19 2017

\*filter

:INPUT ACCEPT [66:4636]

:FORWARD ACCEPT [0:0]

:OUTPUT ACCEPT [53:4692]

-A FORWARD -i eth0 -o wlan0 -m state --state RELATED

-A FORWARD -i eth0 -o wlan0 -m state --state RELATED,ESTABLISHED -j ACCEPT

-A FORWARD -i wlan0 -o eth0 -j ACCEPT

COMMIT

# Completed on Wed Jul 5 18:44:19 2017

# Generated by iptables-save v1.4.21 on Wed Jul 5 18:44:19 2017

\*nat

:PREROUTING ACCEPT [2:736]

:INPUT ACCEPT [2:736]

:OUTPUT ACCEPT [18:1196]

:POSTROUTING ACCEPT [8:480]

-A POSTROUTING -o eth0 -j MASQUERADE

COMMIT

# Completed on Wed Jul 5 18:44:19 2017

sudo iptables -t nat -A POSTROUTING -o wlan0 -j MASQUERADE

sudo iptables -A FORWARD -i eth0 -o wlan0 -j ACCEPT

sudo cat /etc/network/interfaces

# interfaces(5) file used by ifup(8) and ifdown(8)

# Please note that this file is written to be used with dhcpcd

# For static IP, consult /etc/dhcpcd.conf and 'man dhcpcd.conf'

# Include files from /etc/network/interfaces.d:

source-directory /etc/network/interfaces.d

auto lo

iface lo inet loopback

auto eth0

iface eth0 inet static

address 192.168.1.2

netmask 255.255.255.0

network 192.168.1.0

broadcast 192.168.8.255

gateway 192.168.1.1

#allow-hotplug wlan0

#iface wlan0 inet static

# address 192.168.8.102

# netmask 255.255.255.0

# wpa-conf /etc/wpa\_supplicant/wpa\_supplicant.conf

allow-hotplug wlan0

iface wlan0 inet static

address 172.24.1.1

netmask 255.255.255.0

network 172.24.1.0

broadcast 172.24.1.255

allow-hotplug wlan1

iface wlan1 inet manual

wpa-conf /etc/wpa\_supplicant/wpa\_supplicant.conf

cat /etc/dnsmasq.conf

interface=wlan0 # Use interface wlan0

listen-address=172.24.1.1

bind-interfaces # Bind to the interface to make sure we aren't sending things elsewhere

server=8.8.8.8 # Forward DNS requests to Google DNS

domain-needed # Don't forward short names

bogus-priv # Never forward addresses in the non-routed address spaces.

dhcp-range=172.24.1.50,172.24.1.150,12h # Assign IP addresses between 172.24.1.50 and 172.24.1.150 with a 12 hour lease time

cat /etc/network/interfaces

# interfaces(5) file used by ifup(8) and ifdown(8)

# Please note that this file is written to be used with dhcpcd

# For static IP, consult /etc/dhcpcd.conf and 'man dhcpcd.conf'

# Include files from /etc/network/interfaces.d:

source-directory /etc/network/interfaces.d

auto lo

iface lo inet loopback

auto eth0

iface eth0 inet static

address 192.168.1.1

netmask 255.255.255.0

network 192.168.1.0

broadcast 192.168.1.255

gateway 192.168.1.1

post-up route del default dev eth0

allow-hotplug wlan0

iface wlan0 inet manual

wpa-conf /etc/wpa\_supplicant/wpa\_supplicant.conf

allow-hotplug wlan1

iface wlan1 inet manual

wpa-conf /etc/wpa\_supplicant/wpa\_supplicant.conf

:

https://frillip.com/using-your-raspberry-pi-3-as-a-wifi-access-point-with-hostapd/

:

https://wireless.wiki.kernel.org/en/users/Documentation/hostapd

sudo systemctl status hostapd -l

sudo systemctl restart hostapd

sudo vim /etc/hostapd/hostapd.conf

interface=wlan0

driver=nl80211

ctrl\_interface=/var/run/hostapd

ctrl\_interface\_group=0

ssid=AirPi

hw\_mode=g

channel=3

#ap\_max\_inactivity=300

#disassoc\_low\_ack=0

wpa=2

wpa\_passphrase=superSecretPW

wpa\_key\_mgmt=WPA-PSK

wpa\_pairwise=TKIP CCMP

rsn\_pairwise=CCMP

auth\_algs=1

wmm\_enabled=1

beacon\_int=100

logger\_syslog=-1

logger\_syslog\_level=1

===============

# This is the name of the WiFi interface we configured above

interface=wlan0

# Use the nl80211 driver with the brcmfmac driver

driver=nl80211

# This is the name of the network

ssid=banana2

# Use the 2.4GHz band

hw\_mode=g

# Use channel 6

channel=3

# Enable 802.11n

# Enable WMM

# Enable 40MHz channels with 20ns guard interval

# Accept all MAC addresses

macaddr\_acl=0

# Use WPA authentication

auth\_algs=1

# Require clients to know the network name

ignore\_broadcast\_ssid=0

# Use WPA2

wpa=2

# Use a pre-shared key

wpa\_key\_mgmt=WPA-PSK

# The network passphrase

wpa\_passphrase=12345678

# Use AES, instead of TKIP

rsn\_pairwise=CCMP

~

===========================

sudo vim /etc/hostapd/hostapd.conf

interface=wlan0

# Use the nl80211 driver with the brcmfmac driver

driver=nl80211

# This is the name of the network

ssid=banana2

# Use the 2.4GHz band

hw\_mode=g

# Use channel 6

channel=6

# Enable WMM

wmm\_enabled=0

# Enable 40MHz channels with 20ns guard interval

# Accept all MAC addresses

macaddr\_acl=0

# Use WPA authentication

auth\_algs=1

# Require clients to know the network name

ignore\_broadcast\_ssid=0

# Use WPA2

wpa=2

# Use a pre-shared key

wpa\_key\_mgmt=WPA-PSK

# The network passphrase

wpa\_passphrase=12345678

# Use AES, instead of TKIP

rsn\_pairwise=CCMP

ap\_max\_inactivity=300

disassoc\_low\_ack=0

wpa\_group\_rekey=1800

==========================

cat /etc/network/interfaces

# interfaces(5) file used by ifup(8) and ifdown(8)

# Please note that this file is written to be used with dhcpcd

# For static IP, consult /etc/dhcpcd.conf and 'man dhcpcd.conf'

# Include files from /etc/network/interfaces.d:

source-directory /etc/network/interfaces.d

auto lo

iface lo inet loopback

auto eth0

iface eth0 inet static

address 192.168.1.2

netmask 255.255.255.0

network 192.168.1.0

broadcast 192.168.8.255

gateway 192.168.1.1

#allow-hotplug wlan0

#iface wlan0 inet static

# address 192.168.8.102

# netmask 255.255.255.0

# wpa-conf /etc/wpa\_supplicant/wpa\_supplicant.conf

allow-hotplug wlan0

iface wlan0 inet static

address 172.24.1.1

netmask 255.255.255.0

network 172.24.1.0

broadcast 172.24.1.255

post-up /home/pi/hostapd-2.6/hostapd/hostapd /etc/hostapd/hostapd.conf -B

allow-hotplug wlan1

iface wlan1 inet manual

wpa-conf /etc/wpa\_supplicant/wpa\_supplicant.conf