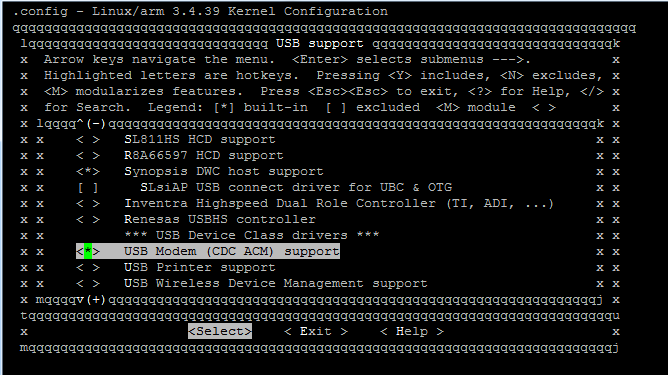
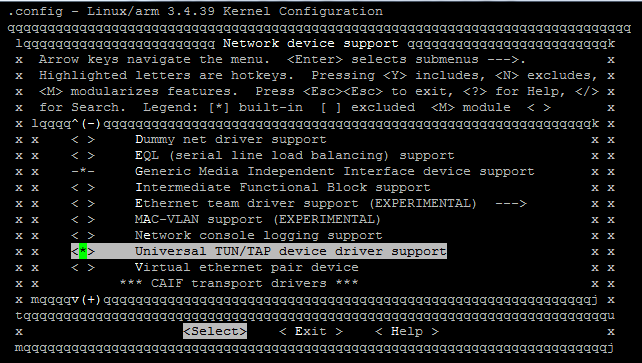
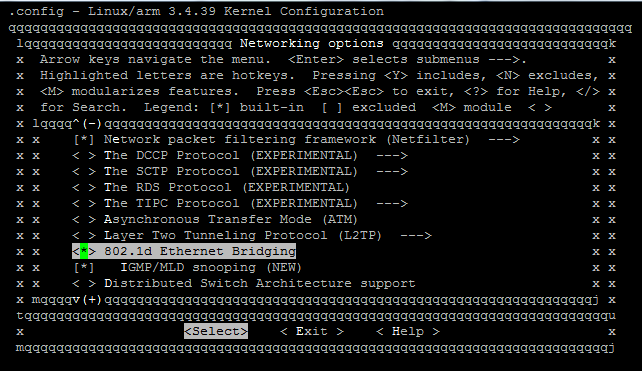
1. Enable USB CDC Modem driver



1. Enable TUN/TAP driver

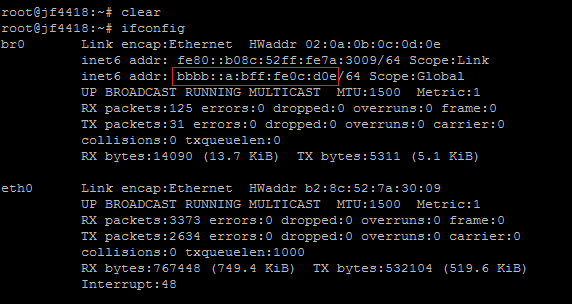


1. Enable 802.1d Ethernet Bridging

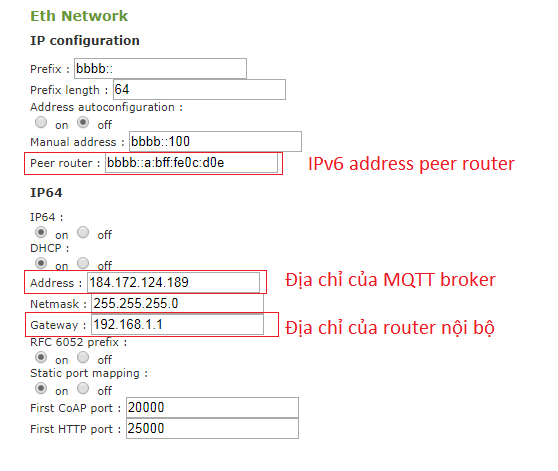


1. Config NAT64

Determine address IPv6 of Peer Router:



1. Configure Contiki NAT64



1. Thêm vào /etc/network/interfaces

auto br0

iface br0 inet dhcp

bridge\_ports eth0

bridge\_stp off

up echo 0 > /sys/devices/virtual/net/br0/bridge/multicast\_snooping

post-up ip link set br0 address `ip link show eth0 | grep ether | awk '{print $2}'`

1. Tạo file cấu hình /etc/6lbr/6lbr.conf

MODE=ROUTER

#MODE=SMART-BRIDGE

#MODE=RPL-RELAY

#MODE=FULL-TRANSPARENT-BRIDGE

#MODE=NDP-ROUTER

#MODE=6LR

#MODE=RPL-ROOT

RAW\_ETH=0

BRIDGE=1

CREATE\_BRIDGE=1

DEV\_BRIDGE=br0

DEV\_TAP=tap0

DEV\_ETH=eth0

#RAW\_ETH\_FCS=1

RAW\_ETH\_FCS=0

DEV\_RADIO=/dev/ttyACM0 #2.4GHz USB Dongle will enumerate like ACM0

#DEV\_RADIO=/dev/ttyUSB1 #SmartRF06EB+CC13xxEM will enumerate like USB1

BAUDRATE=115200

LOG\_LEVEL=3

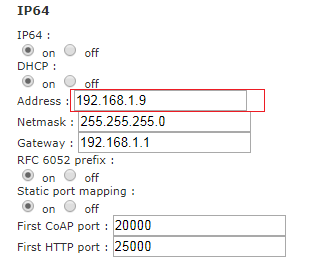
1. Sử dụng local Mosquito MQTT Broker

Cài đặt phần mềm mosquito mqtt broker bằng apt-get install

Edit file /etc/mosquitto/mosquitto.conf

Bind địa chỉ sever với địa chỉ local chẳng hạn 192.168.1.9

Về phía 6BLR cấu hình NAT64 lại như sau :



Cần set địa chỉ IP tĩnh cho br0 là 192.168.1.9

nano /etc/network/interfaces

auto br0

iface br0 inet static

bridge\_ports eth0

bridge\_stp off

up echo 0 > /sys/devices/virtual/net/br0/bridge/multicast\_snooping

post-up ip link set br0 address `ip link show eth0 | grep ether | awk '{print $2}'`

address 192.168.1.9

netmask 255.255.255.0

network 192.168.1.1

broadcast 192.168.1.255

gateway 192.168.1.1

Hoac:

$ ifconfig br0 192.168.1.9

Restart lại Mosquito MQTT broker:

$ /etc/init.d/mosquitto restart

Về phía MQTT client, địa chỉ chuyển đổi IPv4 sang IPv6 của IP 192.168.1.9 (theo chuẩn prefix RFC6052) sẽ là :

192.168.1.9 => 0064:ff9b:0000:0000:0000:0000:c0a8:0109