

ez_router 测试

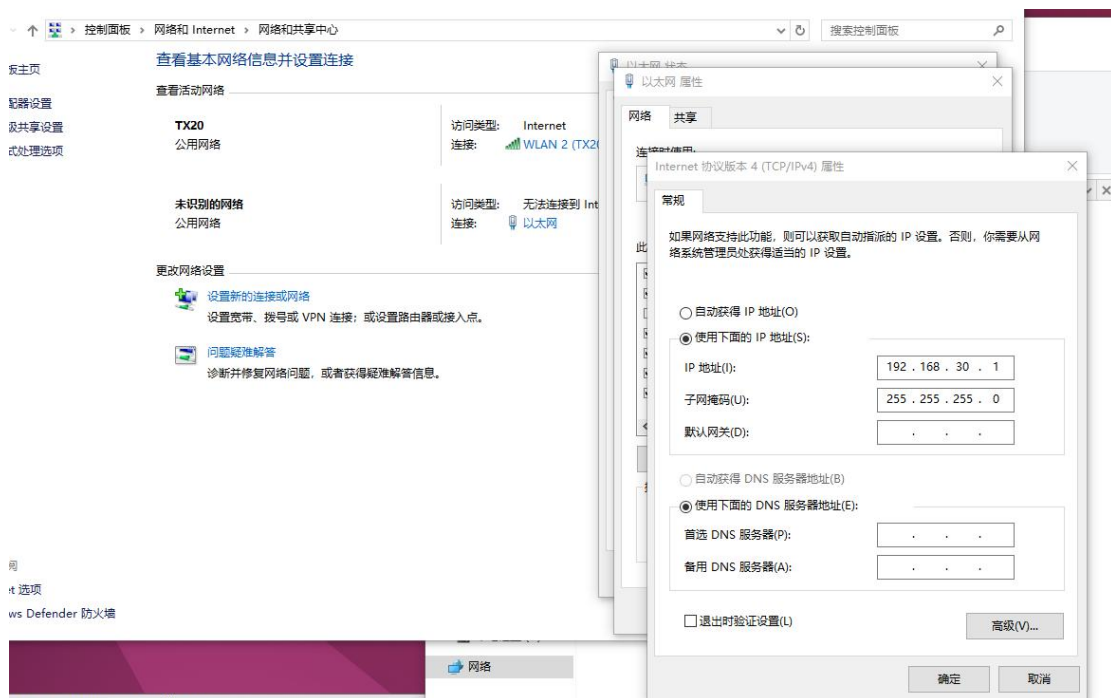
1. 配置 orangePi 的网口（网线连接，传输文件/测试网口转发）

配置静态 IP: 192.168.30.251

```
GNU nano 7.2 /etc/netplan/01-netcfg.yaml

network:
  version: 2
  renderer: networkd
  ethernets:
    end0:
      dhcp4: false
      addresses:
        - 192.168.30.251/24
      gateway4: 192.168.30.1
      nameservers:
        addresses:
          - 192.168.30.1
          - 8.8.8.8
```

PC 上使用静态网址



2. 代码拷贝到 orangepi 上

```
orangepi@orangepizero3:~/ez_router$ ls
doc  examples  out  plugins  routerd  scripts  sdk
```

3. 编译代码

ez_router/routerd 下面 make

```
orangepi@orangepizero3:~/ez_router/routerd$ make
gcc -Wall -pthread -Iinclude -rdynamic -I3rdparty/cjson -o ../out/ez_routerd src
/ez_routerd.c src/reactor.c src/router_link.c src/ipc_server.c src/event_queue.c
src/router_core.c src/port_map.c src/config_store.c src/plugin_loader.c src/port
t_manager.c src/log.c src/run_state.c 3rdparty/cjson/cJSON.c
src/ez_routerd.c: In function 'main':
src/ez_routerd.c:98:9: warning: implicit declaration of function 'sleep' [-Wimpr
icit-function-declaration]
   98 |         sleep(1);
      |         ^~~~~~
src/ez_routerd.c: In function 'dispatcher_thread':
src/ez_routerd.c:21:1: warning: control reaches end of non-void function [-Wretu
rn-type]
   21 | }
      | ^
src/reactor.c: In function 'reactor_thread':
src/reactor.c:239:1: warning: control reaches end of non-void function [-Wretu
rn-type]
   239 | }
      | ^

Build success!
Executable output → ../out/ez_routerd
```

4. 启动

ez_router/out

```
orangepi@orangepi3:~/ez_router/out$ ./ez_routerd -log
[run_state] signal handlers installed
[log] enabled, level=INFO
[2024-10-11 11:14:17] [INFO] ez_routerd started
[2024-10-11 11:14:17] [INFO] ez_routerd starting...

[2024-10-11 11:14:17] [INFO] [reactor] init ok

[2024-10-11 11:14:17] [INFO] [config] before parse!

[2024-10-11 11:14:17] [INFO] [config] loaded: 4 ports, 2 plugins, 2 routes

[2024-10-11 11:14:17] [INFO] [daemon] restoring routes...

[2024-10-11 11:14:17] [INFO] [daemon] load plugins

[filter] constructor: registering handlers...
[2024-10-11 11:14:17] [INFO] [plugin] register handler: filter.usb_to_uart -> 0xffff8a820764

[2024-10-11 11:14:17] [INFO] [plugin] register handler: filter.udp_to_usb -> 0xffff8a82080c
```

`./ez_router -log` 或者 `./ez_router`

`-log` 会输出日志

5. 配置开机启动，当前有点问题，待定

脚本在 `ez_router/scripts/manager_ez_router.sh`

`manager_ez_router.sh -install` 配置开机启动

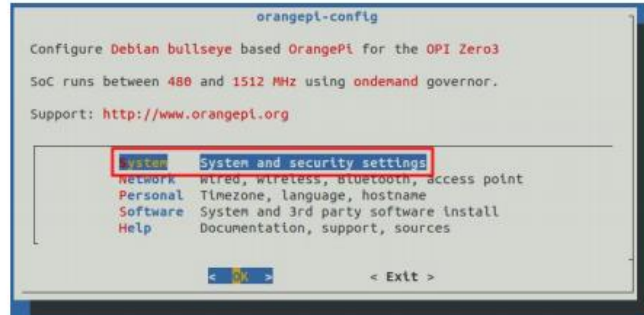
6. 串口配置，使用 uart5 测试

2) Linux 系统中 uart5 默认是关闭的，需要手动打开才能使用。打开步骤如下所示：

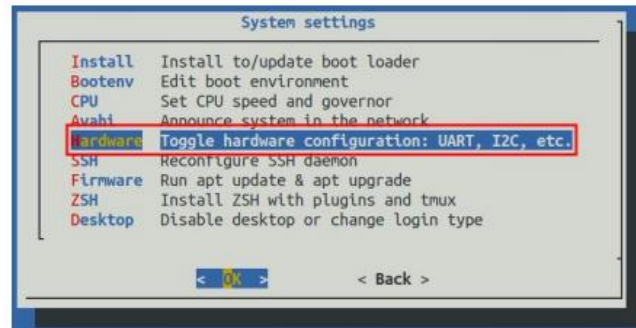
- a. 首先运行下 **orangepi-config**，普通用户记得加 **sudo** 权限

```
orangepi@orangepi:~$ sudo orangepi-config
```

- b. 然后选择 **System**



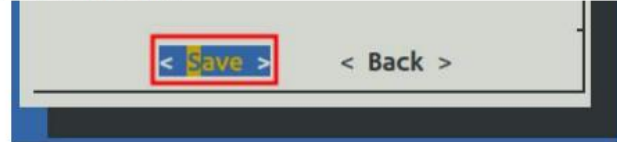
- c. 然后选择 **Hardware**



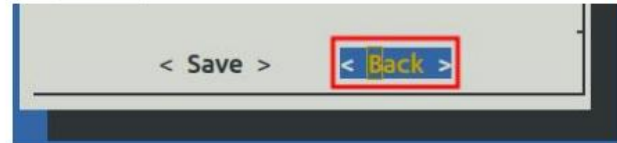
- d. 然后使用键盘的方向键定位到下图所示的位置，再使用空格选中 **ph-uart5**



- e. 然后选择 **<Save>** 保存



- f. 然后选择 **<Back>**



- g. 然后选择 **<Reboot>** 重启系统使配置生效

