

TEST BOARD SOP

第一弹之一

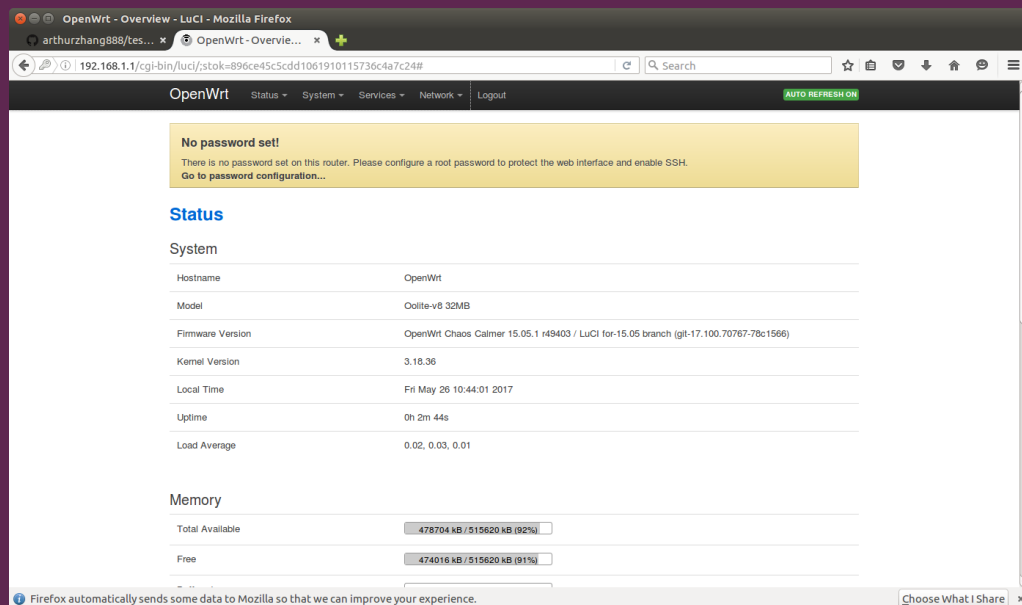
- 连 usb 转串口小版到 PC，串口小版 TX/RX/GND 到 DUT，注意 R/T 交叉，GND 不要接到 3.3 上
- 连 DUT LAN 到 PC，连 DUT WAN 到互联网
- 上 2 个 PCIE 网卡，用胶带绑紧
- 将 pretest.sh,posttest.sh 拷贝到 u 盘，插上 U 盘，接上硬盘 SATA PORT1
- 电脑端开启串口工具建议用 Xshell，波特率设置 57600,N,8,1
- 电脑开启 excel，等待记录测试结果。
- 所有主板编号从 2-201
- 开启 PC wifi，断开所有 wifi 连接

第一弹之二

- 开机，电脑串口有输出，等待 post 完成，回车出现 # 号，输入 `sh /mnt/sda4/pretest.sh` (sda4 路径可能会变化，已实测为准)
- 脚本运行后按照脚本提示操作，输出结果填入 excel 表格，测试脚本先测试 asmedia 设备是否存在，然后测试 TF 卡，测试 TF 卡需要根据提示插入，目前仅检测识别设备（注意很多 TF 卡有问题，有一个 OK 的 TF 卡和一个可做 AP 的涂红色的网卡放在一个薄塑料破了一个孔的袋子里），测完 TF 卡，接着测试硬盘是否存在，确保电源和数据口插好。以上测试结果同步填入表格

第一弹之三

- RJ45 lan 测试：接 RJ45lan 到 PC RJ45, PC 浏览器输入 192.169.1.1 不用管密码直接进入可以看到如下界面说明 lan 是 ok 的，打开百度也可以访问说明 wan ok
- 将 DUT 光口接到红色 RJ45 装光口板子上，红色板子 RJ45 接 PC RJ45, 分别访问 192.168.1.1 和百度，如果 ok 说明光口 ok，此步骤需要测试 3 个光口。
- 所有测试完成后将结果填入表格



第一弹之四

- 进入 network->interface->lan, 将 IPV4 地址从 192.168.1.1 改为 192.168. 板子编号 .1 点击 save&apply, 等待成功后, 浏览器输入新地址可以访问。

The screenshot shows the OpenWrt LuCI web interface in a Mozilla Firefox browser. The address bar displays the URL: `192.168.1.1/cgi-bin/luci/stok=5ddbc87ed31319e30392138a0598ca46/admin/network/network/lan/`. The interface has a dark header with the OpenWrt logo and navigation links: Status, System, Services, Network, and Logout. A green button labeled "AUTO REFRESH ON" is on the right. Below the header, there are tabs for WAN, WAN6, 3G, and LAN, with LAN selected. The main content area is titled "Interfaces - LAN" and includes a descriptive paragraph about configuring network interfaces. Under the "Common Configuration" section, there are four tabs: General Setup, Advanced Settings, Physical Settings, and Firewall Settings. The "General Setup" tab is active, showing the status of the "br-lan" interface. The status information includes: Uptime: 0h 8m 4s, MAC-Address: 0C:EF:AF:C6:45:A7, RX: 75.93 KB (732 Pkts.), TX: 197.36 KB (766 Pkts.), IPv4: 192.168.1.1/24, and IPv6: fd82:e757:5386::1/60. Below the status information, there are configuration fields for the interface: Protocol (Static address), IPv4 address (192.168.1.1), IPv4 netmask (255.255.255.0), IPv4 gateway, and IPv4 broadcast.

OpenWrt - Interfaces - LuCI - Mozilla Firefox

arthurzhang888/tes... x OpenWrt - Interface... x

192.168.1.1/cgi-bin/luci/stok=5ddbc87ed31319e30392138a0598ca46/admin/network/network/lan/ Search

OpenWrt Status System Services Network Logout AUTO REFRESH ON


WAN WAN6 3G LAN

Interfaces - LAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation `INTERFACE.VLANNR` (e.g.: `eth0.1`).

Common Configuration

General Setup Advanced Settings Physical Settings Firewall Settings

Status  br-lan

Uptime: 0h 8m 4s
MAC-Address: 0C:EF:AF:C6:45:A7
RX: 75.93 KB (732 Pkts.)
TX: 197.36 KB (766 Pkts.)
IPv4: 192.168.1.1/24
IPv6: fd82:e757:5386::1/60

Protocol Static address

IPv4 address 192.168.1.1

IPv4 netmask 255.255.255.0

IPv4 gateway

IPv4 broadcast

Firefox automatically sends some data to Mozilla so that we can improve your experience. Choose What I Share x

第二弹之一

按下复位按键可以，串口可见路由器重启重新进入 #。复位确认 ok，结果填入表格

-
- 断电关机，更换 sata port，将 3g 卡换上，另外一个 pcie 接可以做 AP 的网卡（有个涂红色的可以 AR5BXX）。开机后，串口可见输入，结束后按回车可见 #，输入 `sh /mnt/sda4/posttest.sh` (sda4 路径可能会变化，已实测为准)，提示测试 3G usb 设备是否存在，将结果填入 excel 表格

第二弹之二

- DUT Lan 连接 PC, 浏览器输入 192.168. 版本号 .1, 登录到路由器设置界面, 点击 network → wifi 可以看到 AP 开启如图, 同时查看自己电脑无线连接是否有如图 wifi, 点击连接此 wifi, 拔下 lan 网线, pc 浏览器访问百度, 如果 ok 说明 wifi ok

The screenshot shows the OpenWrt LuCI web interface in a Mozilla Firefox browser. The address bar shows the URL `192.168.1.1/cgi-bin/luci/stok=3e57e55d1c53071201a5e2198bb19963/admin/network/wireless#`. The interface has a dark header with the OpenWrt logo and navigation links: Status, System, Services, Network, and Logout. A green button labeled "AUTO REFRESH ON" is in the top right.

A yellow warning box at the top left states: "No password set! There is no password set on this router. Please configure a password to protect the web interface and enable SSH. Go to password configuration...".

A dropdown menu is open, showing options: Interfaces, Wifi, Switch, DHCP and DNS, Hostnames, Static Routes, Firewall, and Diagnostics. The "Wifi" option is selected.

The main content area is titled "Wireless Overview". It shows a section for "Generic MAC80211 802.11bgn (radio0)" with the following details: Channel: 11 (2.462 GHz) | Bitrate: ? Mbit/s. Below this, it shows SSID: Oolite-889854 | Mode: Master, 0% BSSID: 00:25:D3:88:98:54 | Encryption: None. There are buttons for Scan, Add, Disable, Edit, and Remove.

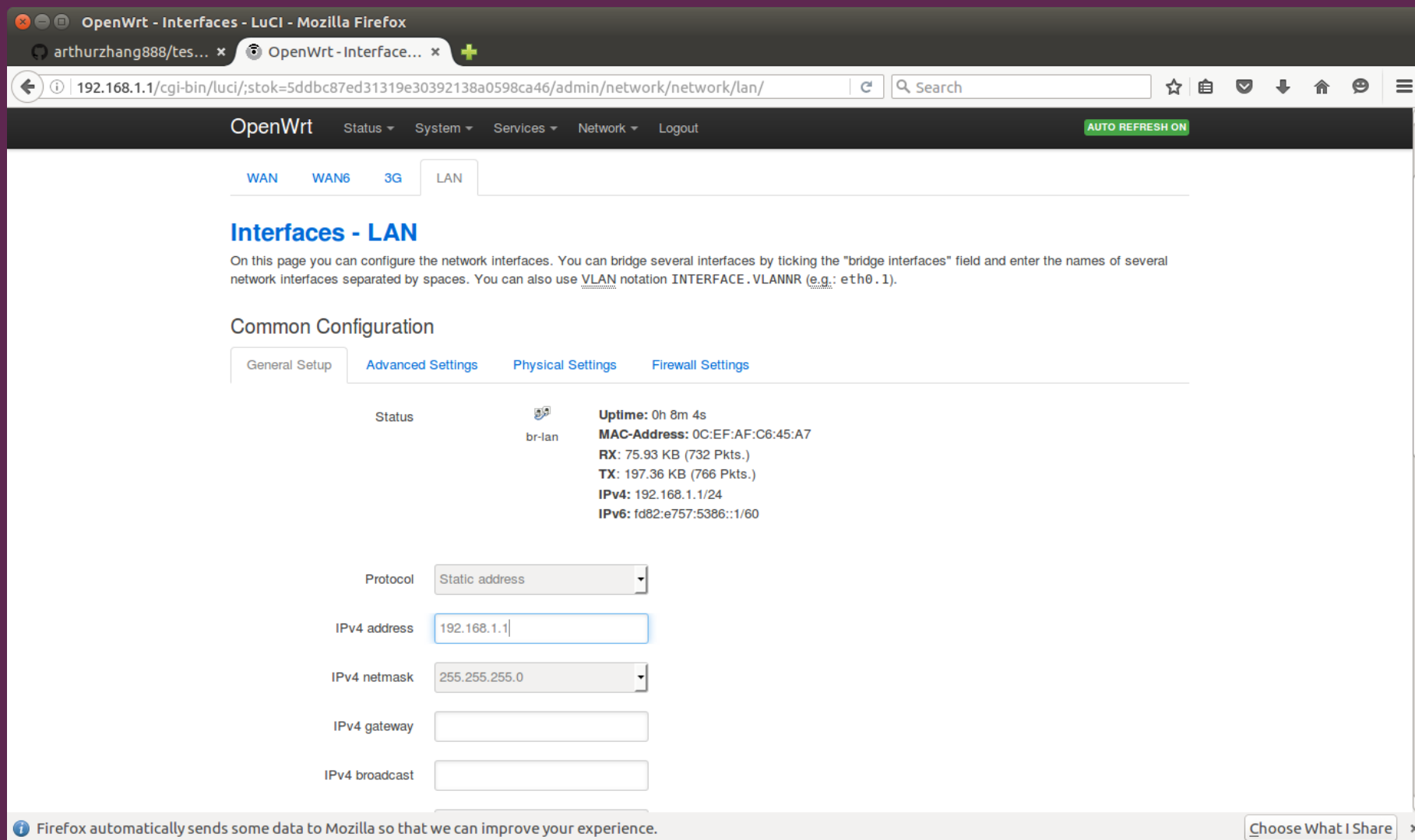
Below the wireless overview is a section titled "Associated Stations". It contains a table with the following headers: SSID, MAC-Address, IPv4-Address, Signal, Noise, RX Rate, and TX Rate. The table is currently empty, with the text "No information available" below it.

At the bottom of the page, it says "Powered by LuCI for 15.05 branch (git-17.100.70767-78c1566) / OpenWrt Chaos Calmer 15.05.1 r49403".

A Firefox notification bar at the very bottom states: "Firefox automatically sends some data to Mozilla so that we can improve your experience. Choose What".

第二弹之三

- 测试 3G，登录 DUT 设置界面，network->interface->3G, 输入对应运行商拨号吗，save&apply，等待确认是否可以上网。（之前脚本已经测试 3G 设备是否识别，这个测试主要测试 sim 卡）结果计入 excel



END