LCWA Logbook

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| --- | --- | --- | --- |
| Date | Time | Box/CW | Change |
| 3/16/2024 | 05:50 | LC23 | changed to 9.02.02, speedserver = 38658 |
|  | 05:54 | LC24 | changed to 9.02.02, speedserver = 1771 |
|  | 06:08 | LC24 | speedserver = 9686 |
| 3/20 | 15:36 | LC23 | upgrade LC23 (pi0) |
| 3/23 | 08:30 | LC03 | changed LC03 speedserver to 9686 |
| 3/24 | 07:32 | LC03 | switched version to Feb24\_2024\_gh |
| 3/25 | 6:30 | system | Create new branch Mar25\_2024 |
| 3/26 | 6:55 | system | added translation of id to provider,town in logging |
| 3/28 | 7:16 | system | Created new branch Mar28\_2024 |

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| 3/29 | 6:45 | LC23 | switched to Mar28\_2024 branch, tests packetLoss |
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5/18 Start working on upgrade of boxes. I start with LC24:

cat /proc/cpuinfo:

.....hardware : BCM2711

Revision : c03112

Serial : 100000007134ae75

Model : Raspberry Pi 4 Model B Rev 1.2

Determine Linux version:

lsb\_release -a

No LSB modules are available.

Distributor ID: Raspbian

Description: Raspbian GNU/Linux 10 (buster)

Release: 10

Codename: buster

python3 version: 3.7.3

Latest Debian version: bookworm

Before we go on I want to make a clone of the current SD to backup.

df -h shows that we have 6G used and 20G available. First we do an update

There are a few questions asked, since the distro went from stable to oldoldstable. It crashes with following error:

The repository 'https://ookla.bintray.com/debian buster Release' no longer has a Release file.

backup disk on LC04:

image disk from LC23

/dev/sda

goes to /dev/sdb sudo dd bs=4M if=/dev/sda of=/dev/sdb

3/19 Might just have destroyed the master sdd. The dd command was to quick, before I could give the proper device names. Might have to copy LC04 onto LC24. Poopy.

finally stopped dd, check if original still boots. still okay. Now test next. The original was 32GB the new one is 64, see if this makes a difference. No used the wron box. It is lc24 and not lc23

works with 64GB, now test the old one. Old one sis alos okay.

Now start upgrade:

sudo apt update, crahses at ookla upgrade.

Remove speedtest.list from /etc/apt/sources.list.d

mv to speedtest.list\_old

https://www.makeuseof.com/tag/raspberry-pi-update-raspbian-os/

now do: sudo apt full-upgrade

at end had to quit out of a text. with q

Now do

sudo apt dist-upgrade at 10:02, crashed with lib6 error.

did a

sudo apt install gcc-8-base, hopefully that will take care.

now completely bricked lc24, can even get in with regular terminal.

Make new raspi card:

I am follwing this one:

https://www.raspberrypi.com/software/

installed the system on the old lc24 card , now putting it in and go from there

Okay, first shit: doesn't let me come in through ssh

so do sudo raspi-config and enable ssh server

next: check python3: 3.11.2

mkdir git

cd git

git clone https://github.com/pabloemma/LCWA speedtest

Now try the new install routine:

Bummer does not work:

need to do sudo apt-install python3-matplotlib , dropbox,loguru, pandas,ntplib, tcp\_latency, iperf3

sudo apt install python3-matplotlib

problem with tcp\_latency, does not find it. Shit the thing is called tcp-latency, but the package name is tcp\_latency. Looks like we need to dwoload the package unzip it and do a pip install.

Have to do sudo rm /usr/lib/python3.11/EXTERNALLY-MANAGED

to get rid of this shit external managed.

speedtest:

sudo apt-get install curl

curl -s https://packagecloud.io/install/repositories/ookla/speedtest-cli/script.deb.sh | sudo bash

sudo apt-get install speedtest

DOES NOT WORK with bookworm.

do curl -O https://install.speedtest.net/app/cli/ookla-speedtest-1.2.0-linux-armel.tgz

and then unpack. you will have speedtest. move it to

Do a manual speedtest to accept license

speedtest

type YES

**add crontab entries**

**crontab -e**

**sudo crontab -e**

**Don't forget to set the timezone and wifi location**

Now problem with json

Directory Name: /home/pi/git/speedtest/src

reading config file /home/pi/git/speedtest/config/test\_speed\_cfg.json

Traceback (most recent call last):

File "/home/pi/git/speedtest/src/test\_speed1\_3.py", line 1691, in <module>

ts.GetArguments() #commandline args

^^^^^^^^^^^^^^^^^

File "/home/pi/git/speedtest/src/test\_speed1\_3.py", line 656, in GetArguments

self.Setup()

File "/home/pi/git/speedtest/src/test\_speed1\_3.py", line 258, in Setup

MyConfig = cs.MyConfig(config\_file)

^^^^^^^^^^^^^^^^^^^^^^^^

File "/home/pi/git/speedtest/src/config\_speed.py", line 38, in \_\_init\_\_

self.ReadJson(config\_file)

File "/home/pi/git/speedtest/src/config\_speed.py", line 49, in ReadJson

self.DecodeVariables(myconf)

File "/home/pi/git/speedtest/src/config\_speed.py", line 134, in DecodeVariables

if(self.nondefault):

^^^^^^^^^^^^^^^

AttributeError: 'MyConfig' object has no attribute 'nondefault'

Something is wrong with json read. Problem is that hostname is lowercase, needs to be upper case. Change in raspi-config. Was my mistake in setup of raspian.

next make directory ~/speedfiles

get LCWA\_A.TXT

finally works, reboot at 14:33

Should see updates on dropbox. However, had wrong timezone, system did not progress.

LC24 is now on the latest raspian version. Could use this as a sample file.

Seems to work.

3/21 In order to do a systemwide upgrade, I checked if 4 and 3 have identical raspian image:

Here a link : https://forums.raspberrypi.com/viewtopic.php?t=341006

3/24 Log into LC03 edgerouter, then go to DHCP to find the IP of speedbox

I switched LC03 to development git, and restarted the speedbox. It works like a charm, so I am ready to merge

the branches. Feb24\_2024\_gh -> master

3/25 Create new branch Mar25\_2024: The following topics will be addressed:

* Logging stops at around 1:00 in the morning. This might have to do with the copy of the logfile, it always stops around 1:01 ? I think this is because I use cp instead of mv. Try with mv. (line 1433)
* Read in ookla serverlist with pandas

3/25 create master ssd with raspian bookworm 32bit. The hostname is LC24.local and the user and pwd is the usual.

3/25 merge branches.