Toshiba Chromebook 2

this is a very nice device for only $329. it has a full hd 1080p 13in IPS screen, is only about 1.3 or 1.5kg and it looks pretty good for the price. the keyboard is okay too except for the fact that there currently does not seem to be swiss german or even german version (one that contains all the keys in the “right” places..). what's also very good is the sound quality.

battery life is far better than anything i had owned so far .. i have to admint though that my other notebook is already about 3 years old.

one thing though makes the notebook almost unusable.. chromeos :) at least for me.. it heavily depends on being connected to the internet and this at least in my case is not always given.. i often use my notebook in a datacenter at a customers where i can't simply plug it into the network and get access.. or on an airplane etc. plus despite being a gmail user i don't consier myself a heavy cloud user.. but i am a fulltime linux user and that's where the chromebook gets interesting.. it's one of the only notebooks available in stores that run a pre installed linux kernel.. and thanks to crouton it's quite easy to get a fully capable linux environment running on it.. i had this notebook running with standby working and everything an far less time than many regular windows notebooks..

there is a second possibility called chrubuntu which aims at installing a directly bootable ubuntu running a patched ubuntu kernel rather than the chromeos kernel.. however this solution did not work for the toshiba chromebook 2 at the moment of wrinting because right now this chromebook does not support legacy boot which wold be needed for that.. there is a possibility to boot into chrubuntu with a few commands in chromeos, however the author describing this solution did not get the sound card nor the standby functionality running so far and i don't see any advantage so far over runnign crouton which runs ubuntu in its own chroot environment with everyting working flawlessly..

here is how i did my setup:

enable Developer mode

- before you begin it might be a good idea to create a recovery disk for your chromebook. you can do this later on on a second pc but why not do it now on your chromebook where it just works :) .. simply install the “chromebook recovery utility” app from the store and run it. you need a memory stick or sd card with at least a size of 4GB which you can dedicate to being the recovery disk.
- now enable developer (important: this will erase all your local data and settings) mode in order to get root access to your chromeos: press and hold esc. and reload and then press the power button to reboot the chromebook into recovery mode. once you are in recovery mode, press ctrl+d to continue and then select to enable developer mode. this might take a moment. after that your notebook will reboot and you will see a warning that developer mode has been enabled. you can either wait 30seconds for it to boot or press ctrl+d once more to boot.
- once rebooted, go through the setup wizard until you have a working internet connection and log in

disable rootfs verification

in order to get this to work i had to switch to the developer firmware first bz running this command as superuser in a command prompt:

```
chromeos-firmwareupdate --mode=todev
```

then reboot and disable rootfs verification (caution, whenever i ran this command a second time it somehow destroyed my crhome os and i had to recover from the usb stick! all settings where lost)

```
sudo /usr/share/vboot/bin/make_dev_ssd.sh --force --
remove_rootfs_verification
```

reboot again now whenever you want to change anyting on your root partition you can run

```
mount -o remount,rw /
```

to be able to writ to your root partition. this will be needed later on to autostart ubuntu and other stuff.

install crouton

- download crouton
- open a terminal with ctrl + alt + T. start a shell by typing “shell”
- run crouton. at best you first look at the available command line options by running

  ```
  sudo sh ~/Downloads/crouton -h
  ```

  so you can find what options suti you best. in my case at the time of writing this was

  ```
  sudo sh ~/Downloads/crouton -r trusty -t gnome,keyboard
  ```

  note the keyboard target. that's needed to get the function keys running.

- this will install a ubuntu trusty 14.04 lts version with a basic gnome environment. as the script tells you you can now start your ubuntu by typing

  ```
  sudo startgnome
  ```

customize gnome

- you might want to install some applications. i haven't yet bothered to find a minimum list of packets to install for my most preferred environment. however i can tell you that installing the metapackage “gnome” will install lots of programs including all the necessary ones you might already be used to (like gedit, gnome-terminal etc.). however this will take quite a bit of diskspace.. it will also make gnome look pretty as it installs the fonts needed therefore.

- i also recommend to install update-manager-core for future release updates (do-release-upgrade).

autostart crouton

source

- remove rootfs verification:

```
sudo /usr/share/vboot/bin/make_dev_ssd.sh --remove_rootfs_verification
```

- now reboot and your rootfs should be mounted read/write
- now download crouton.conf and put it in the /etc/init/ folder

sidenote: updating ubuntu

if you need to update to a new releae simply use do-release-upgrade as youwould in any ubuntu installation.then log off and in chrome os run the crouton script to update its side of the installation:

```
sudo sh -e ~/Downloads/crouton -n <chroot_name> -u
```

where the chroot_name is uusally equal to the currently installed release name. in oder to keep it that way even after the upgrad we need to rename the chroot name by running

```
sudo edit-chroot -m <newrelease> <oldrelease>
```

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