

# Release Note of Ubuntu MATE 18.04.1 LTS (v4.1)

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## Summary

Release Date	2018-12-03
Release Type	Update

File name : ubuntu-18.04.1-4.14-mate-odroid-xu4-20181203.img.xz

***XU4 OS image is fully compatible with HC1, MC1 and XU3.***

## Download from below servers

- Official US West Coast: [Download](http://odroid.in/ubuntu_18.04lts) ([http://odroid.in/ubuntu\\_18.04lts](http://odroid.in/ubuntu_18.04lts))
- Official US East Coast: [Download](http://east.us.odroid.in/ubuntu_18.04lts) ([http://east.us.odroid.in/ubuntu\\_18.04lts](http://east.us.odroid.in/ubuntu_18.04lts)) Thanks to David Beauchamp @ archlinuxarm
- Official EU Germany: [Download](http://de.eu.odroid.in/ubuntu_18.04lts) ([http://de.eu.odroid.in/ubuntu\\_18.04lts](http://de.eu.odroid.in/ubuntu_18.04lts))
- Official Korea Mirror: [Download](http://dn.odroid.com/5422/ODROID-XU3/Ubuntu/) (<http://dn.odroid.com/5422/ODROID-XU3/Ubuntu/>)

## New features

- Ubuntu 18.04.1 LTS Bionic Beaver with Mate Desktop (Point release)
- Kernel 4.14.85 LTS
- New WiFi Module 6 (RTL8811AU) support
- And many other features

The RootFS Auto-resize feature has changed!!!  
Once everything is done after auto-resize, the power will turn off automatically. Wait a couple of minutes.  
And press the power button if the blue LED is off.

## Known issues and Tips

- Tons of issues undocumented. 😞
- Mali GPU access could be blocked by a recent Canonical's EGL package. In that case, you need to install our Mali driver manually.

```
• sudo apt-get install mali-x11 --reinstall
```

- VLC doesn't start due to a video driver compatibility issue.
  - The first time launching of Chromium takes around one minute due to internal initialization process. After that, it starts in 1~2 seconds.
  - To enable Auto-login, edit `/usr/share/lightdm/lightdm.conf.d/50-greeter-wrapper.conf` file like this.
- ```
[SeatDefaults]
greeter-session=lightdm-gtk-greeter
autologin-user=odroid
```
- Some UASP capable USB-to-SATA bridge controllers are not compatible. If your external HDD is not working properly, add its VID/PID in `boot.ini` [Boot arguments](#) to disable the UAS function something like this.
- ```
usb-storage.quirks=0x0bc2:0x2322:u
```
- The Youtube video quality on Chromium browser can be improved a lot with “h264ify” extension in Chrome Web Store. 720p/30fps videos are fine with the extension.
  - How to test Qt5 GPU acceleration.
- ```
sudo apt install qtbase5-examples
/usr/lib/arm-linux-gnueabi/qt5/examples/opengl/cube/cube
```

## Access Credentials

| Username | Password |
|----------|----------|
| root     | odroid   |
| odroid   | odroid   |

## How to Update system and kernel software. Don't forget dist-upgrade

```
sudo apt update
sudo apt upgrade
sudo apt dist-upgrade
sudo reboot
```

## Linux Kernel build

**This guide is only for the NATIVE BUILD.** Run it on the board.

### Installing building tools

You may need to install the building tools.

```
$ sudo apt-get install git gcc g++ build-essential libssl-dev bc flex bison
```

Download and build the kernel source

## Updating Kernel and DTB (Device Tree Blob)

Please note that native kernel compile on ODROID-XU4 will take about 25 minutes.

```
$ git clone --depth 1 https://github.com/hardkernel/linux -b odroidxu4-4.14.y
$ cd linux
$ make odroidxu4_defconfig
$ make -j8
$ sudo make modules_install
$ sudo cp -f arch/arm/boot/zImage /media/boot
$ sudo cp -f arch/arm/boot/dts/exynos5422-odroid*dtb /media/boot
$ sync
```

## Updating root ramdisk (Optional)

```
$ sudo cp .config /boot/config-`make kernelrelease`
$ sudo update-initramfs -c -k `make kernelrelease`
$ sudo mkimage -A arm -O linux -T ramdisk -C none -a -e -n uInitrd -d /boot/initrd.img-`make kernelrelease` /boot/uInitrd-`make kernelrelease`
$ sudo cp /boot/uInitrd-`make kernelrelease` /media/boot/uInitrd
$ sync
```

## Before you start with new Linux kernel v4.14

You would check all necessary files are in place as below before reboot. The file size would differ.

```
$ ls -l /media/boot/
total 14756
-rwxr-xr-x 1 root root 9536 Oct 25 23:29 boot.ini
-rwxr-xr-x 1 root root 753 Aug 20 22:38 boot.ini.default
-rwxr-xr-x 1 root root 62565 Nov 2 01:24 exynos5422-odroidxu3.dtb
-rwxr-xr-x 1 root root 61814 Nov 2 01:24 exynos5422-odroidxu3-lite.dtb
-rwxr-xr-x 1 root root 62225 Nov 2 01:24 exynos5422-odroidxu4.dtb
-rwxr-xr-x 1 root root 61714 Oct 25 23:30 exynos5422-odroidxu4-kvm.dtb
-rwxr-xr-x 1 root root 9996513 Nov 2 01:27 uInitrd
-rwxr-xr-x 1 root root 4844744 Nov 2 01:24 zImage
```

```
$ sudo sync
$ sudo reboot
```

From:

<http://wiki.odroid.com/> - **ODROID Wiki**

Permanent link:

[http://wiki.odroid.com/odroid-xu4/os\\_images/linux/ubuntu\\_4.14/20181203](http://wiki.odroid.com/odroid-xu4/os_images/linux/ubuntu_4.14/20181203)

Last update: **2019/07/25 02:57**

