Installing OLPC OS 20.04.0

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One Laptop per Child has curated Sugar and Activities on the Ubuntu 20.04 Focal LTS operating system.

One Education manufactures the Infinity N4100 laptop. These instructions have been tested on the Infinity model A03. See the printing underneath the laptop for the model number.

Quanta manufactured the NL3 laptop. These instructions have also been tested on the NL3 model 1NL30000042. See the barcode label underneath the laptop for the model number.

Other laptops may also be used, but are not supported by OLPC without prior agreement.

Preparing

- you will need a USB HDD or Flash drive of at least 3 GB capacity,
- you should already be familiar with how to install Ubuntu, if not, see Download Ubuntu Desktop, and Install Ubuntu Desktop,
- TBA; download our installer image, from http://dev.laptop.org/~quozl/2020-04-24/
- use dd, pv or other software such as etcher.io to write installer image to USB HDD or Flash drive, for example:

```bash
dd \< olpc-os-20.04.0-1587711417.iso \\
> /dev/disk/by-id/usb-...
```

Boot menu - One Education Infinity N4100 laptop

- power off the laptop, insert USB drive into any port, press power button for two seconds, wait for the Infinity logo, press the F11 PgUp, key; result will be “Please select boot device:” menu,

  Note: some USB drives do not support the USB Mass Storage Specification For Bootability, or are too slow to become ready. When the boot menu does not show your USB drive, enter setup, Discard Changes and Reset, wait for the Infinity logo, and press F11 PgUp key again.

- choose your USB drive; result will be “GNU GRUB menu”, in green colour,

Boot menu - Quanta NL3 N2940 laptop

- power off the laptop, insert USB drive into any port, press power button for one second, wait for the logo, press the F5 key; result will be a “Boot Menu”,

- choose your USB drive; result will be “GNU GRUB menu”, in green colour,

Installing for a single laptop

- on the “GNU GRUB menu”, choose “Install OLPC OS”; result will be delay for checking disks, then window “Welcome”,

  Note: errors will be found in three files during the check. These may be ignored.

- choose language and press Continue; result will be “Keyboard layout” window,

- choose keyboard layout and press Continue; result will be “Wireless” window,

- choose “don’t want to connect to a wi-fi network right now”, and press Continue; result will be “Updates and other software” window, with default “Normal installation” set,

- press Continue; result will be “Installation type” window,

- choose “Erase disk and install Ubuntu”, and press Continue; result will be “Write the changes to disks?”,

- press Continue, result will be delay, and then “Where are you?”,

- make any answer and press Continue; result will be “Who are you?”,
• set your name, computer name, username, and password, select automatic login, and press Continue; result will be “Welcome to Ubuntu” and after a delay of several minutes “Installation Complete”,

• select “Restart Now”, wait for the power to cycle, remove the USB drive, and wait for the system to be ready.

Installing a group of laptops

Install OLPC OS in OEM mode, create a disk image, then write the image to each laptop.

• on the “GNU GRUB menu”, choose “OEM install (for manufacturers)”; result will be delay, then window “Install (OEM mode, for manufacturers only)” and “Welcome”,

• choose a unique name for this batch of systems, such as NL3, and press Continue; result will be Wireless window,

• choose “don’t want to connect to a wi-fi network right now”, and press Continue; result will be “Preparing to install Ubuntu”.

• press Continue; result will be “Installation type”,

• choose “Erase disk and install Ubuntu”, and press Continue; result will be “Write the changes to disks?”,

• press Continue, result will be delay, and then “Where are you?”,

• make any answer and press Continue; result will be “Keyboard layout”,

• make answer according to the keyboard you have, and press Continue; result will be “Who are you?”,

• set a temporary password for oem, and press Continue; result will be an installation progress display, and after a delay “Installation Complete”,

• select “Restart Now”, wait for power cycle, remove the USB drive, and after a delay the system will start,

• start Terminal, and type `sudo oem-config-prepare`, and a password prompt will appear,

• enter password as set above in step 12, result will be “oem-config will run the next time the system boots”,

• click Ok, and shutdown.

Make and distribute the disk image now. Method you use depends on the software. Software includes the rescue mode of the installer, dd, partimage and Clonezilla.

Caution: avoid booting before making a disk image, otherwise an end-user account will have been created.