



Savoir-faire
LINUX

Installing Linux

Linux Mint 18.1 in dual boot with Microsoft Windows

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February 6, 2017



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Objectives

This tutorial is based on your laptop (provided by ICTC): a HP 250 G5 (see next slide for more details).

We'll install Linux Mint 18.1, a distribution based on Ubuntu, with long term support until 2021. Fee free to consult a [summary of the new features](#). We'll use the Cinnamon version for your 64-bit laptop. [The DVD](#) can be downloaded freely (and legally).

Grab a DVD!

Your laptop specifications

HP 250 G5 - 15.6'' - Core i5 6200U - 4 GB RAM - 500 GB HDD

CDW#: 4092867

MFG Part: WOS98UT#ABA

- Core i5 6200U / 2.3 GHz
- Win 10 Pro 64-bit
- 4 GB RAM
- 500 GB HDD
- DVD SuperMulti
- 15.6'' 1366 x 768 (HD)
- HD Graphics 5500
- Wi-Fi
- Bluetooth

Compatibility lists

The first thing you should do is check whether your hardware is compatible (we did it for you).

- Ubuntu: <https://certification.ubuntu.com>
- Debian: <https://wiki.debian.org/Hardware>
- Red Hat (for paying customers): <https://hardware.redhat.com>
- Check more distributions on <https://distrowatch.com>

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Booting your PC for the 1st time

- Let's assume you never booted your computer
 - ▶ If you did, you had to run through the Microsoft Windows sign-up process (we don't need that)
 - ▶ And if you used Windows for some time (or plan to install on another computer), you should run a disk check –see other tips in the references section e.g. Pjotr, 2017
 - ▶ Making the install on a “clean” Windows installs should help the installer find and resize space
- Press the **Power** button and IMMEDIATELY press the **ESC** button
- You should see a text menu, then press **F9**
 - ▶ If you don't, make sure you power off the computer completely by pushing the power button as long as it takes
 - ▶ Start from the beginning: Power + ESC...
- Then choose the middle option: “Internal CD/DVD ROM Drive (UEFI)”. Use the **Arrow** keys to select, then press **ENTER**.
- You should see the Linux DVD boot menu (black background). Press **ENTER** (Stay on option 1).
- It would take a long time to boot (from DVD). Wait until you have logged in, with a full desktop.
- At this point, you should make sure everything works (and it should on this laptop). Connect to the Wi-Fi and test the system at will.

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Start the installer

- Click on the CD/DVD icon on your desktop labelled “Install Linux Mint”
- Follow the instructions:
 - ▶ Select English.
 - ▶ Connect to a network, and enter the password as required.
 - ▶ Choose to install third-party software for graphics and other hardware (it will install non-open source components, but it will make your life easier). You will have to say OK to disable “Secure Boot”. Make sure you remember the password you provide: if you’re using the course laptop, use the Wi-Fi password.
 - ▶ Choose to install Linux Mint alongside the Windows Boot Manager (it will let some space for Windows to co-exist). If you don’t see the Continue button, go back and continue again.
 - ▶ Use the divider to tell the installer how much space you want to reserve for Windows and for Linux on your drive. It should be OK to leave it as is.
 - ▶ Click “Install now” and say OK/Continue on the pop up window

Continue the installation...

- Enter the city name
- Click continue on the keyboard screen
- Enter your name and a password you like. You don't have to encrypt your home folder for the course laptop (you might want to consider that for your own laptop).
- Watch the tour guide and relax while the system is installed.
- OK to restart. Pop up the DVD. When the system starts, you will now have a choice to start Linux or Windows. Voilà!

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Some Applications to try

- Make sure you boot into Linux, so you can enjoy the Cinnamon Desktop
- Check the options on the Welcome screen
- Read the docs, and feel free to install more codecs
- Check the multiple desktops: CTRL + ALT + Arrow keys
- Browse the Web with Firefox
- Register to the forums at <https://forums.linuxmint.com> to get help and to share tips

Check System Settings and Install some software

- Find everything from the “Start menu” (bottom-left corner)
- Add your picture to the login screen
- Install additional keyboard layout (e.g. French Canadian)
- Find and install software with the Software Manager (e.g. Chromium browser)
- Update your system (look for the shield icon at the bottom right)
- Start applications with the quick menu: **ALT + F2**

Thunderbird

- Create a new account (entering your Gmail account should autoconfigure everything)

Work with office documents with LibreOffice

- Write a letter, a presentation. . .

Working with the command line

- Open a terminal with CTRL + ALT + T (press the 3 keys at once)
- You can type commands followed by **ENTER**
- Type in `whoami` (the user you are logged as)
- Type in `ls -l`
- Type in `sudo apt-get install gedit` (to install the app “gedit”)

Install Ring.cx

- Go to <https://ring.cx>
- Click on “Join the Ring” (big button)
- Select Ubuntu 16.04 (on which Linux Mint 18.1 is based)
- Open a terminal (**CTRL + ALT + T**) and copy paste the following *from the website*:

```
sudo echo 'deb https://dl.ring.cx/ring-nightly/ubuntu.16.04/ ring main' > \  
/etc/apt/sources.list.d/ring-nightly-man.list  
sudo apt-key adv --keyserver pgp.mit.edu --recv-keys A295D773307D25A33AE72F2F64CD5FA175348F84  
sudo add-apt-repository universe
```

```
sudo apt-get update && sudo apt-get install ring
```

- Set up a username and password, and try calling someone

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Check out some Linux Magazines



Figure: <http://www.linuxjournal.com>



Figure: <https://www.linuxformat.com>