

Adding Windows as a Second OS on Thinkpad

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1 Introduction

Step by step instructions for adding Windows as a second OS on a thinkpad.

1.1 Setting and motivation

check thinkpad model I have a relatively new Lenovo Thinkpad, Carbon X1 Gen 9. It came with Ubuntu installed and now I want to add Windows 11 as a second OS.

I have a 1TB SSD and I have allocated 500GB to Ubuntu. I want to allocate 500GB to Windows.



Figure 1: Windows

2 Steps

- 1) *Create a Windows bootable USB.* On the `thinkpad` running `Ubuntu` open `firefox` and download a `Windows ISO` from the `Microsoft` website to the `~/Downloads` directory. [Download Windows 11](#) **check** I tried using `bale-naEtcher` on my `macbook` but that was a no go since the `Windows ISO` did not have a partition table. Use `Ventoy` to create a bootable USB. [Ventoy](#)

From the `Ventoy` website:

“What is Ventoy Ventoy is an open source tool to create bootable USB drive for ISO/WIM/IMG/VHD(x)/EFI files. With ventoy, you don't need to format the disk over and over, you just need to copy the ISO/WIM/IMG/VHD(x)/EFI files to the USB drive and boot them directly. You can copy many files at a time and ventoy will give you a boot menu to select them (screenshot). You can also browse ISO/WIM/IMG/VHD(x)/EFI files in local disks and boot them. x86 Legacy BIOS, IA32 UEFI, x86_64 UEFI, ARM64 UEFI and MIPS64EL UEFI are supported in the same way. Most types of OS supported (Windows/WinPE/Linux/ChromeOS/Unix/VMware/Xen...) 1200+ image files are tested (list), 90%+ distros in distrowatch.com supported (details)”

From Wikipedia:

“Ventoy is a free and open-source utility used for creating bootable USB media storage devices with files such as `.iso`, `.wim`, `.img`, `.vhd(x)`, and `.efi`. Once Ventoy is installed onto a USB drive, there is no need to reformat the USB drive to add new installation files. Instead, it is enough to copy `.iso`, `.wim`, `.img`, `.vhd(x)`, or `.efi` file(s) to the USB drive.^{[2][3][4]} Ventoy presents the user with a boot menu to select one of the installation files held on the USB drive.”

Download Ventoy from <https://www.ventoy.net/> Extract the downloaded package Run the installation script:

```
cd ventoy-x.x.xx  
sudo ./Ventoy2Disk.sh -i /dev/sdX
```

where `x.x.xx` is the version number and `sdX` is the USB drive.

- 2) *Create a Linux Mint bootable USB.* On the thinkpad running Ubuntu open `firefox` and download a Mint ISO from the Mint website to the `~/Downloads` directory.
[Linux Mint 22.1 "Xia" - Linux Mint](#)