CH&PTER VIII: LINUX OPERATING SYSTEM INSTALLATION Example Ubuntu Windows Dual Boot

step 1: Check compatibility

• Make sure the system uses UEFI Boot

• Start menu - System information

Informations système

Résumé système

E Composants

<u>Fichier</u> <u>Edition</u> <u>Affichage</u> ?

Ressources matérielles

Environnement logiciel

Élément	Valeur	
Nom du système d'exploitation	Microsoft Windows 10 Professionnel	
Version	10.0.19044 Build 19044	
Autre description du système d	Non disponible	
Fabricant du système d'exploit	Microsoft Corporation	
Ordinateur	DESKTOP-HJ9LLP7	
Fabricant	HP	
Modèle	HP ProBook 430 G5	
Туре	PC à base de x64	
Référence (SKU) du système	1LR34AV	
Processeur	Intel(R) Core(TM) i5-8250U CPU @ 1.60GHz, 1800 MHz, 4 cœur(s), 8 processe	
Version du BIOS/Date	HP Q85 Ver. 01.01.00, 19/08/2017	
Version SMBIOS	3.1	
Version du contrôleur embarqué	2.33	
Mode BIOS	UEFI	
Fabricant de la carte de base	HP	
Produit de la carte de base	8377	
Version de la carte de base	KBC Version 02.21.00	
Rôle de la plateforme	Mobile	

Step 2: prepare the necessary

- A computer already containing Windows 10
- A USB key of at least 4GB
- Internet connection
- An external disk (optional) to create a backup copy of data
- Disk for Windows recovery (optional)

Step 3: Download Ubuntu 20.04.2 LTS

• On the official Ubuntu website, you can find the setup ISO file

Internet access is helpful

installer media

Either a DVD drive or a USB port for the

Download Ubuntu Desktop

Ubuntu 20.04.2 LTS

Download the latest LTS version of Ubuntu, for desktop PCs and laptops. LTS stands for long-term support — which means five years, until April 2025, of free security and maintenance updates, guaranteed.

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Ubuntu 20.04 LTS release notes 🖉

Recommended system requirements:

- 2 GHz dual core processor or better
- 4 GB system memory
- 25 GB of free hard drive space

Direct download

For other versions of Ubuntu Desktop Including torrents, the network Installer, a list of local mirrors, and past releases see our alternative downloads.

Download



Step 4: Create a bootable USB flash drive

- Use a Windows tool to create this key; the tool suggested by the Ubuntu site is RUFUS
- Download and install Rufus
- Data on the USB stick will be lost



Step 5: Create free disk space

 Start menu - Windows administrative tools - Computer management -Disk management



- Select the desired partition and choose reduce volume from the menu.
- Choose a new partition size of at least 15-20 GB

partition 2) Simpl	e Debase	Sain (Partition du système FFI)
partition 5) Simpl	e De base	Ouvrir
partition 7) Simpl	e De base	Explorer
		Marguer la partition comme active
		Modifier la lettre de lecteur et les chemins d'accès
		Formater
		Étendre le volume
		Réduire le volume
		Ajouter un disque miroir
		Supprimer le volume
		Propriétés
450 Ma	100 h (C:)	Aide
Sain (Pa	Sain (Sain (De	émarrer, Fi Sain (Par Sain (Partition de c Sain (Partition p
	partition 2) Simpl partition 5) Simpl partition 7) Simpl 450 Mo Sain (Pa	partition 2) Simple De base partition 5) Simple De base partition 7) Simple De base de base 450 Mo Sain (Pa Sain (Sain (De

artition 7) Simple De base Réduire C :	Sain (Partition principale) X	
Taille totale en Mo avant réduction :	98803	
Espace de réduction disponible (en Mo) :	32643	
Quantité d'espace à réduire (en Mo) :	32643	
Taille totale en Mo après réduction :	66160	
Vous ne pouvez pas réduire un volume au-delà du po déplaçables sont situés. Reportez-vous à l'événemen des applications pour obtenir des informations détaillée terminée.	int où tous les fichiers non t « defrag » dans le journal es sur l'opération, une fois	
Pour plus d'informations, voir « Réduire un volume de ba Gestion des disques	se » dans l'Aide sur la)	(F
E	<u>Annuler</u>	

Step 6: Restart from disk

- Go to boot parameters in PC startup press F12 or F10 the BIOS program starts - and in Boot parameters change the boot order - 1 USB key 2 Hard disk
- Save and reboot the PC will be booted by the inserted USB key



Step 7: Start installation

• Choose language and keyboard

In	stall 🗢 🔿		Install	• 8
English Español Esperanto Euskara Français Gaeilge Galego Hrvatski íslenska Italiano Kurdi Latviski	r <u>update this installer</u> .	Keyboard layout Choose your keyboard layout: English (Ghana) English (Nigeria) English (South Africa) English (UK) English (UK) Esperanto Estonian Faroese Filipino Type here to test your keyboard	English (US) English (US) - Cherokee English (US) - English (Colemak) English (US) - English (Dvorak) English (US) - English (Dvorak, alt. intl.) English (US) - English (Dvorak, intl., with dead keys) English (US) - English (Dvorak, right-handed) English (US) - English (Dvorak, right-handed) English (US) - English (Dvorak, right-handed) English (US) - English (Macintoch)	
• • •	Quit Back Continue		Quit Back	Continue

• Choosing a standard installation



Step 8: two approaches to installation

• <u>Approch 1</u>: if you see this screen - the installation chooses to install Ubuntu alongside Windows without user intervention -- continue

	Install		
Installation type			
This computer currently has Windows Boot Manager on it. Wh	hat would you like to do?		
Install Ubuntu alongside Windows Boot Manager Documents, music, and other personal files will be kept. You can describe the second s	choose which operating system you want each time t	the computer starts up.	
C Erase disk and install Ubuntu Warning: This will delete all your programs, documents, photos, m Advanced Features None selected	nusic, and any other files in all operating systems.		
Something else	artitions for Ubuntu.		
une can o cance an realize participant you acit, or convole manaple po			
			V
			1
		Quit Back	Continue

• The next screen - to choose the partition where Ubuntu will be installed - this step may no longer appear, and the installation automatically makes the choice in the partition already created.

		Install			- 😣
Install Ubuntu alongs	ide Windows Boot	Manager			
Select drive: /dev/nvme0n1 - 1.0 TB	PC SN730 NVMe WDC 1024GB				959.9 GB 💌
Allocate drive space by dragging the	divider below:				
Files (45.7 GB) /dev/nvme0n1p3 (ntfs) 250.5 GB	**	Ubuntu /dev/nvme0n1p4 (ext4) 755.1 GB			
4 smaller partitions are hidden, use the adve	nced partitioning tool for more contro	ol			
			Quit	Back	install Now

- <u>Approch 2</u>: the 'install ubuntu alongside windows boot manager' option does not appear
- Choose something else
- We'll move on to the partitioning screen choose the partition you want to create

nstallation type This computer currently has Windows Boot Manager on it. What would you like to do? Install Ubuntu alongside Windows Boot Manager Documents, music, and other personal files will be kept. You can choose which operating system you want each time the comput	iter starts up.		
This computer currently has Windows Boot Manager on it. What would you like to do? Install Ubuntu alongside Windows Boot Manager Documents, and other personal files will be kept. You can choose which operating system you want each time the comput	iter starts up.		
Install Ubuntu alongside Windows Boot Manager Documents, music, and other personal files will be kept. You can choose which operating system you want each time the computer of the compute	iter starts up.		
Erase disk and install Ubuntu Warning: This will delete all your programs, documents, photos, music, and any other files in all operating systems. Advanced Features None selected			
 Something else You can create or resize partitions yourself, or choose multiple partitions for Ubuntu. 			
7			
		0	
		2	
			\
	Quit	Back	Continue

😣 🗐 Install

Installation type

Device	Type	Mount point	Format?	Size	Used	System	1044 39	11010100	04.00
/dev/sda3			6	134 MB	unknown				
/dev/sda4	ntfs		(1)	513 MB	293 MB				
/dev/sda5	ntfe		153	110000 MR	43263 MB				
free space				117982 MB	1				
/dev/3do7	nifa			05051410	7566 MB				
/dev/sda6			9	8596 MB	unknown				
free space			0	0 MB					
+ - Char	nge)							New Partitio	n Table Reve
evice for bo	oot loa	der installatio	n:						
/dev/sda	ATA SA	MSUNG SSD P	M84 (256.	1 GB)					
2									- 522
							Quit	Back	Install No

Installation type

free space	s	da1 (fat32)	sda2 (fa 41.9 MB	t32) 📕 sda 134	3 (unknow 2 MB	vn) sda4 (ntfs) 513.8 MB	sda5 (ntfs) 119.9 GB	sda8 (ext4) 18.0 GB	sda9 (linux- 8.0 GB
Device	Туре	Mount point	Format?	Size	Used	System			
/dev/sda5	ntfs		0	119900 MB	43263 MB				
/dev/sda8	ext4	1	1	17983 MB	unknown				
/dev/sda9	swap		0	7999 MB	unknown				
/dev/sda10	ext4	/home	1	91999 MB	unknown				
/dev/sda7	ntrs			8365 MB	7566 MB				
/dev/sda6			10	8596 MB	unknown				
free space				0 MB					
+ - Chan	ge							New Partition	Table Revert
Device for bo	otload	ler installation	:						
/dev/sda	ATA SA	AMSUNG SSD P	M84 (256.	1 GB)					*
							Quit	Back	Install Now

Step 9: the rest of the installation

• Select regional options



• Enter user information

	Install			
Who are you?				
Your name: Your computer's name: Pick a username: Choose a password: Confirm your password:	abhishek its-foss The name it uses when it talks abhishek	Cood password		
		•	Ba	ck Continue

• Ubuntu is here to copy files and create directories



• Reboot and remove USB key





• The boot list for choosing to start Windows or Ubuntu

