

Install Ubuntu 6.10 Edgy to USB Using Windows

Upon completion, the user will be able to boot and run a Portable Ubuntu Edgy from the USB thumb drive. This tutorial utilizes multiple partitions to enable the user to save changes and settings back to the flash thumb drive and restore them persistently. Note that the second partition must be labeled "casper-rw" to use the "persistent" feature and save changes back to the stick.



Ubuntu® is a product of Canonical Ltd and is based on Debian Linux. It is both user friendly and stable. Ubuntu's famous slogan is (it should "Just Work", TM)

Distribution Home Page: Ubuntu.com
Minimum Flash Drive Capacity: 1GB
Persistent Feature: Yes

Basic essentials

1GB or larger USB flash drive
Ubuntu 6.10 ISO
CD Burner/Recorder
7-zip (or another ISO extracting tool)

Partition and make the USB flash drive bootable

1. Download the Ubuntu 6.10 ISO and burn it to CD
2. Restart your computer (booting from the Ubuntu Live CD)
3. Insert a 1GB or larger USB flash drive
4. Open a terminal window and type `sudo su`

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5. Now type `fdisk -l` to list available drives/partitions (note which device is your flash drive Example: `/dev/sdb`). Throughout this tutorial, replace all instances of `x` with your flash drive letter. For example, if your flash drive is `sdb`, replace `x` with `b`.
 - Type `umount /dev/sdx1`
 - Type `fdisk /dev/sdx`
 - type `p` to show the existing partition and `d` to delete it
 - type `p` again to show any remaining partitions
 - type `n` to make a new partition
 - type `p` for primary partition
 - type `1` to make this the first partition
 - hit `enter` to use the default 1st cylinder
 - type `+750M` to set the partition size
 - type `a` to make this partition active
 - type `1` to select partition 1
 - type `t` to change the partition filesystem
 - type `6` to select the fat16 file system
 - type `n` to make another new partition
 - type `p` for primary partition
 - type `2` to make this the second partition
 - hit `enter` to use the default cylinder
 - hit `enter` again to use the default last cylinder
 - type `w` to write the new partition table
6. Type `umount /dev/sdx1` to unmount the partition
7. Type `mkfs.vfat -F 16 -n usb /dev/sdx1` to format the first partition. "Alternately you can try `mkfs.vfat -F 32 -n usb /dev/sdx1` (doesn't always work)"
8. Type `umount /dev/sdx2` to ensure the partition is unmounted
9. Type `mkfs.ext2 -b 4096 -L casper-rw /dev/sdx2` to format the second partition
10. Remove and Re-insert your flash drive
11. Back at the terminal, type `sudo apt-get install syslinux mtools`
12. Type `syslinux -sf /dev/sdx1`
13. Restart your computer, remove the CD and boot back into Windows
14. Using Windows to prepare and move the files to the USB Stick
15. Create a folder named USB on your computer
16. Download UBconvert.zip and extract the files to the USB folder
17. Move the Ubuntu 6.10 ISO downloaded earlier to the USB folder
18. Click `fixu.bat` from the USB folder (follow on screen instructions)

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19. Move all files from the ubuntu directory to your memory stick
20. Reboot your computer and set your system BIOS to boot from USB-HDD or USB-ZIP. Also set the "Hard Disk Boot Priority" if necessary.
21. You should now be booting into Ubuntu Linux from your USB drive!