

How to install a Windows VM using LXD

從光碟安裝 Windows 虛擬機

<https://ubuntu.com/tutorials/how-to-install-a-windows-11-vm-using-lxd>

Download iso and pack like below, a total 20G free disk is required.

安裝 distrobuilder 套件及製作 ISO

```
$ sudo snap install distrobuilder --classic
$ sudo apt install genisoimage libwin-hivex-perl wimtools
$ sudo distrobuilder repack-windows WindowsIsolmage.iso win11.lxd.iso
```

製作範例

```
lester@isorepack:~/Downloads$ sudo distrobuilder repack-windows
Win11_23H2_Chinese_Simplified_x64v2.iso
win11.lxd.iso
INFO [2024-04-25T18:55:59+08:00] Mounting Windows ISO
mount: /var/cache/distrobuilder.2323481667/source: WARNING: source write-protected,
mounted
read-only.
INFO [2024-04-25T18:55:59+08:00] Downloading drivers ISO
INFO [2024-04-25T19:08:17+08:00] Mounting driver ISO
mount: /var/cache/distrobuilder.2323481667/drivers: WARNING: source write-protected,
mounted
read-only.
INFO [2024-04-25T19:08:17+08:00] Modifying WIM file file=boot.wim
index=2
Committing changes to /var/cache/distrobuilder.2323481667/overlay/sources/boot.wim
(image 2)
Using LZX compression with 12 threads
Archiving file data: 19 MiB of 19 MiB (100%) done
INFO [2024-04-25T19:08:20+08:00] Modifying WIM file file=install.wim
index=1
Committing changes to /var/cache/distrobuilder.2323481667/overlay/sources/install.wim
(image 1)
Using LZX compression with 12 threads
...
```

```
Using DIRECTORYSERVICES_DOMAIN000.MAN;1 for
/var/cache/distrobuilder.2323481667/overlay/sources/replacementmanifests/directoryservic
es-domain
controller-tools-replacement.man
(directoryservices-domaincontroller-servercoreupg-replacement.man)
Size of boot image is 2880 sectors -> No emulation
0.15% done, estimate finish Thu Apr 25 19:09:00 2024
...
99.98% done, estimate finish Thu Apr 25 19:09:15 2024
Total translation table size: 2048
Total rockridge attributes bytes: 0
Total directory bytes: 217088
Path table size(bytes): 2464
Max brk space used fe000
3410754 extents written (6661 MB)
INFO [2024-04-25T19:09:16+08:00] Removing cache directory
lester@isorepack:~/Downloads$ ls *.iso -lhs
6.4G -rw-rw-r-- 1 zlmao zlmao 6.4G Apr 25 18:16
Win11_23H2_Chinese_Simplified_x64v2.iso
6.6G -rw-r--r-- 1 root root 6.6G Apr 25 19:09 win11.lxd.iso
lester@isorepack:~/Downloads$
```

主控台 → 建立一個 VM

Create an instance

Main configuration

> Advanced

YAML configuration

Instance name

Enter name

Description

Enter description

Base Image*

Browse images

Use custom ISO

Instance type

Container

Profiles

default

Cancel

Create

Create and start

選擇 Use custom ISO

Upload custom ISO

Some image formats need to be modified in order to work with LXD.
Windows ISO images

Local file

Browse...

No file selected.

Alias

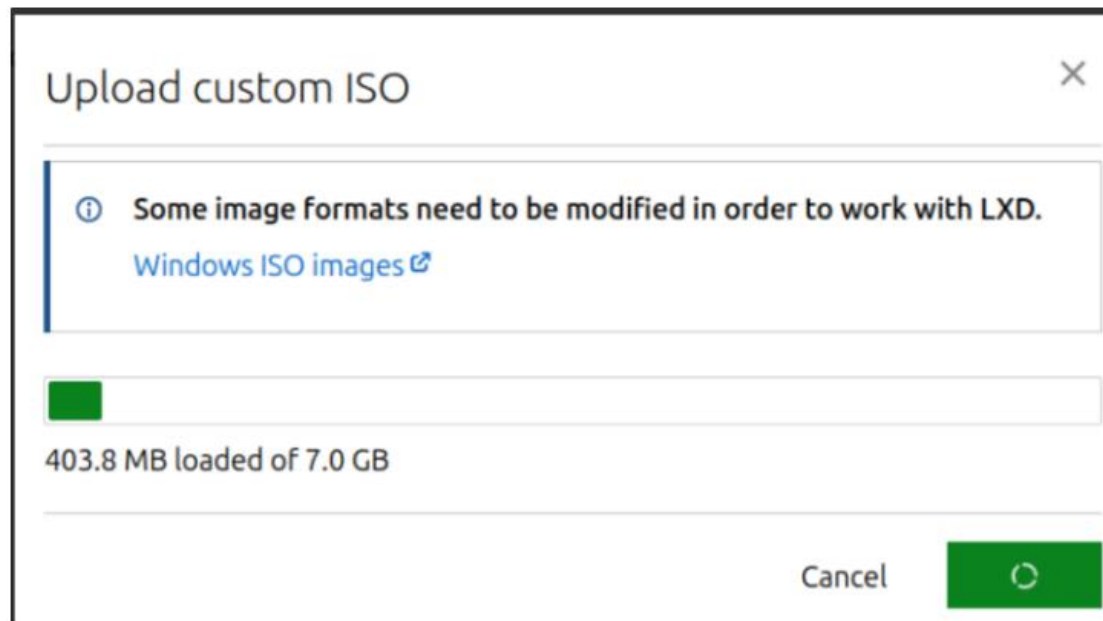
Storage pool

default

Cancel

Upload

點選 Browser，選擇製作好的 ISO 檔，按下上傳 Upload



VM 資源配置：CPU、記憶體、硬碟及設定

Create an instance

- Main configuration
- Advanced
 - Disk devices
 - Network devices
 - Resource limits**
 - Security policies
 - Snapshots
 - Cloud init
- YAML configuration

CONFIGURATION	INHERITED	OVERWRITE
Exposed CPU limit Which CPUs to expose to the instance	1 From: LXD (VM)	<input checked="" type="radio"/> number <input type="radio"/> fixed × 2 Total number of CPU cores: 4
Memory limit Usage limit for the host's memory	1GB From: LXD (VM)	<input checked="" type="radio"/> absolute <input type="radio"/> percentage × 4 GiB Total memory: 16 GiB
Memory swap (Containers only) Whether to encourage/discourage swapping less used pages for this instance	Allow From: LXD	✎
Disk priority Priority of the instance's I/O requests	5 From: LXD	✎
Max number of processes (Containers only) Maximum number of processes that can run in the instance	- From: LXD	✎

Cancel Create

滑鼠點擊、按下任意鍵，從 CD 或 DVD 啟動

INSTANCES / WIN11-VM1 *Running* ▶ ⏸ ⏹ Stop Delete instance

Overview Configuration Snapshots Terminal Console Logs

☒ Graphic ☐ Text console win11.lxd.iso Detach ISO Fullscreen Shortcuts ▼

```
Press any key to boot from CD or DVD.....

Bdshee: failed to start Boot0001 "UEFI QEMU QEMU CD-ROM " from PciRoot(0x0)/Pci(0x1,0x1)/Pci(0x0,0x0)
/Scsi(0x1,0x1): Time out
Bdshee: failed to load Boot0002 "UEFI QEMU QEMU HARDDISK " from PciRoot(0x0)/Pci(0x1,0x1)/Pci(0x0,0x0)
/Scsi(0x0,0x1): Not Found

>>Start PXE over IPv4.
PXE-E16: No valid offer received.
Bdshee: failed to load Boot0003 "UEFI PXE#4 (MAC:00163E0226E3)" from PciRoot(0x0)/Pci(0x1,0x4)/Pci(0
x0,0x0)/MAC(00163E0226E3,0x1)/IPv4(0.0.0.0,0x0,0x0,0.0.0.0,0x0,0.0.0.0,0.0.0.0): Not Found

>>Start PXE over IPv6.
```

Overview Configuration Snapshots Terminal Console Logs

☒ Graphic ☐ Text console win11.lxd.iso Detach ISO Fullscreen Shortcuts ▼

