**How to import a virtual machine to LXD instance**

**VM移轉LXD平台**

If you have an existing machine, either physical or virtual (VM or container), you can use the lxd-migrate tool to create a LXD instance based on your existing disk or image.

<https://documentation.ubuntu.com/lxd/en/latest/howto/import_machines_to_instances/>

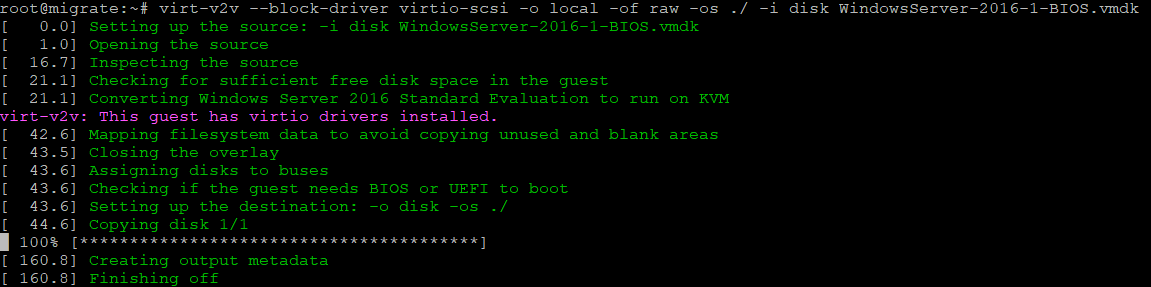
**安裝Migrate套件與環境**

於Ubuntu24.04 LTS配置環境

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| **sudo apt update**  **sudo apt install -y libvirt-clients virtinst virt-v2v**  sudo wget -nd -O srvany.rpm https://kojipkgs.fedoraproject.org//packages/mingw-srvany/1.1/4.fc38/noarch/mingw32-srvany-1.1-4.fc38.noarch.rpm  **sudo apt install -y rpm2cpio**  sudo rpm2cpio srvany.rpm | cpio -idmv && mkdir /usr/share/virt-tools && mv ./usr/i686-w64-mingw32/sys-root/mingw/bin/\*exe /usr/share/virt-tools/  **sudo apt install -y dnf**  sudo dnf install https://fedorapeople.org/groups/virt/virtio-win/repo/stable/virtio-win-0.1.240-1.noarch.rpm  **sudo virt-v2v --block-driver virtio-scsi -o local -of raw -os ./ -i disk WindowsServer-2016-BIOS.vmdk** |

**轉檔範例**

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| root@migrate:~$ sudo virt-v2v --block-driver virtio-scsi -o local -of raw -os ./ -i disk WindowsServer-2016-1-BIOS.vmdk  [ 0.0] Setting up the source: -i disk WindowsServer-2016-1-BIOS.vmdk  [ 1.0] Opening the source  [ 16.7] Inspecting the source  [ 21.1] Checking for sufficient free disk space in the guest  [ 21.1] Converting Windows Server 2016 Standard Evaluation to run on KVM  virt-v2v: This guest has virtio drivers installed.  [ 42.6] Mapping filesystem data to avoid copying unused and blank areas  [ 43.5] Closing the overlay  [ 43.6] Assigning disks to buses  [ 43.6] Checking if the guest needs BIOS or UEFI to boot  [ 43.6] Setting up the destination: -o disk -os ./  [ 44.6] Copying disk 1/1  █ 100% [\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*]  [ 160.8] Creating output metadata  [ 160.8] Finishing off |

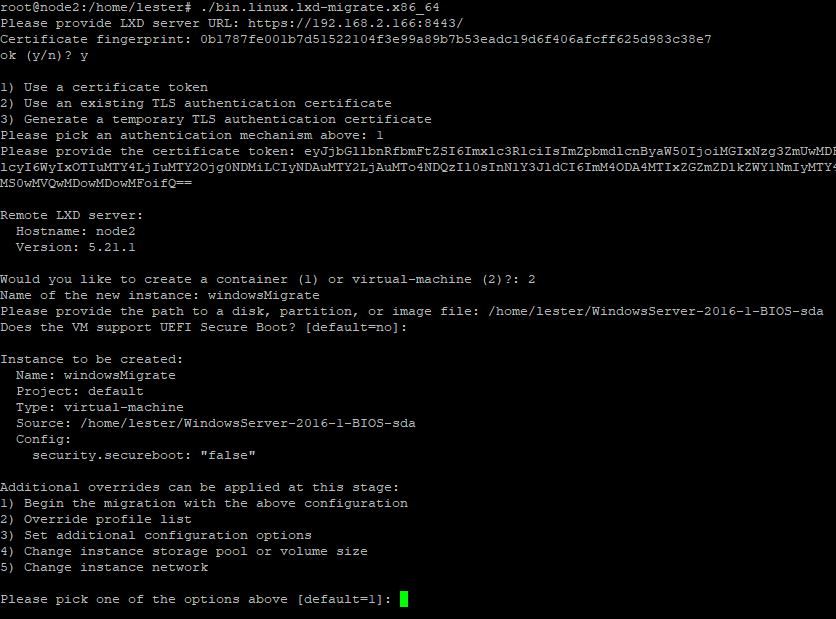
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**匯入檔案**

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| sudo wget https://github.com/canonical/lxd/releases/latest/download/bin.linux.lxd-migrate.x86\_64  sudo chmod u+x bin.linux.lxd-migrate.x86\_64  sudo lxc config trust add --name lester  sudo ./bin.linux.lxd-migrate.x86\_64 |

**匯入範例**

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| root@node2:/home/lester# ./bin.linux.lxd-migrate.x86\_64  Please provide LXD server URL: https://192.168.2.166:8443/  Certificate fingerprint: 0b1787fe001b7d51522104f3e99a89b7b53eadc19d6f406afcff625d983c38e7  ok (y/n)? y  1) Use a certificate token  2) Use an existing TLS authentication certificate  3) Generate a temporary TLS authentication certificate  Please pick an authentication mechanism above: 1  Please provide the certificate token: eyJjbGllbnRfbmFtZSI6Imxlc3RlciIsImZpbmdlcnByaW50IjoiMGIxNzg3ZmUwMDFiN2Q1MTUyMjEwNGYzZTk5YTg5YjdiNTNlYWRjMTlkNmY0MDZhZmNmZjYyNWQ5ODNjMzhlNyIsImFkZHJlc3NlcyI6WyIxOTIuMTY4LjIuMTY2Ojg0NDMiLCIyNDAuMTY2LjAuMTo4NDQzIl0sInNlY3JldCI6ImM4ODA4MTIxZGZmZDlkZWY1NmIyMTY4MmM5MWJjMmUzZjI1MTJjZGE2NDNhZjE2YTI4YTQ4YmFmYjk0MWQxMGIiLCJleHBpcmVzX2F0IjoiMDAwMS0wMS0wMVQwMDowMDowMFoifQ==  Remote LXD server:  Hostname: node2  Version: 5.21.1  Would you like to create a container (1) or virtual-machine (2)?: 2  Name of the new instance: windowsMigrate  Please provide the path to a disk, partition, or image file: /home/lester/WindowsServer-2016-1-BIOS-sda  Does the VM support UEFI Secure Boot? [default=no]:  Instance to be created:  Name: windowsMigrate  Project: default  Type: virtual-machine  Source: /home/lester/WindowsServer-2016-1-BIOS-sda  Config:  security.secureboot: "false"  Additional overrides can be applied at this stage:  1) Begin the migration with the above configuration  2) Override profile list  3) Set additional configuration options  4) Change instance storage pool or volume size  5) Change instance network  Please pick one of the options above [default=1]: |

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**虛擬機開機前設定**

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| **sudo lxc config set security.csm=true**  **sudo lxc config set migration.stateful=true**  **sudo lxc config set security.secureboot=false** |

**VM資源配置：CPU、記憶體、硬碟及設定**

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**YAML檢視虛擬機設定**

