

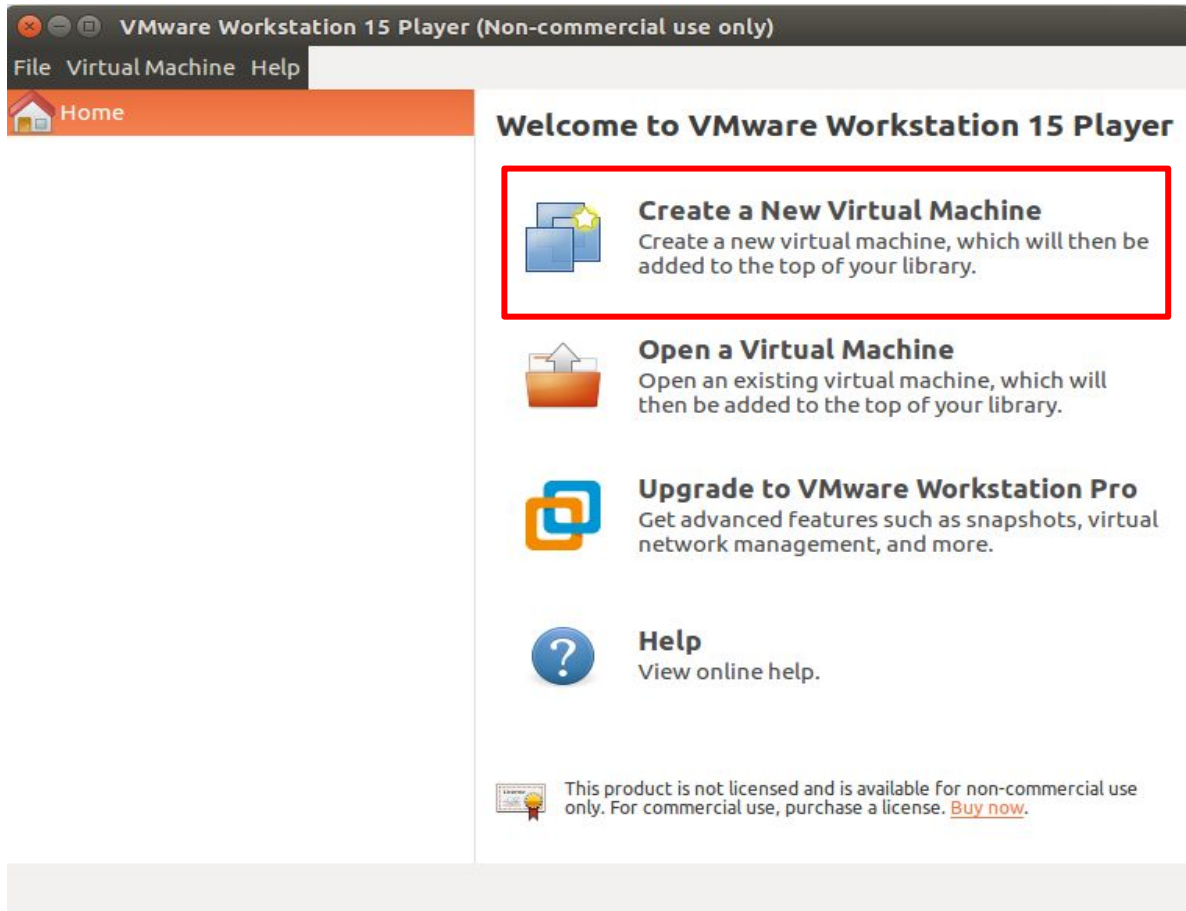


install Linux server

(ubuntu 18.04)

xuan
2019.11.20

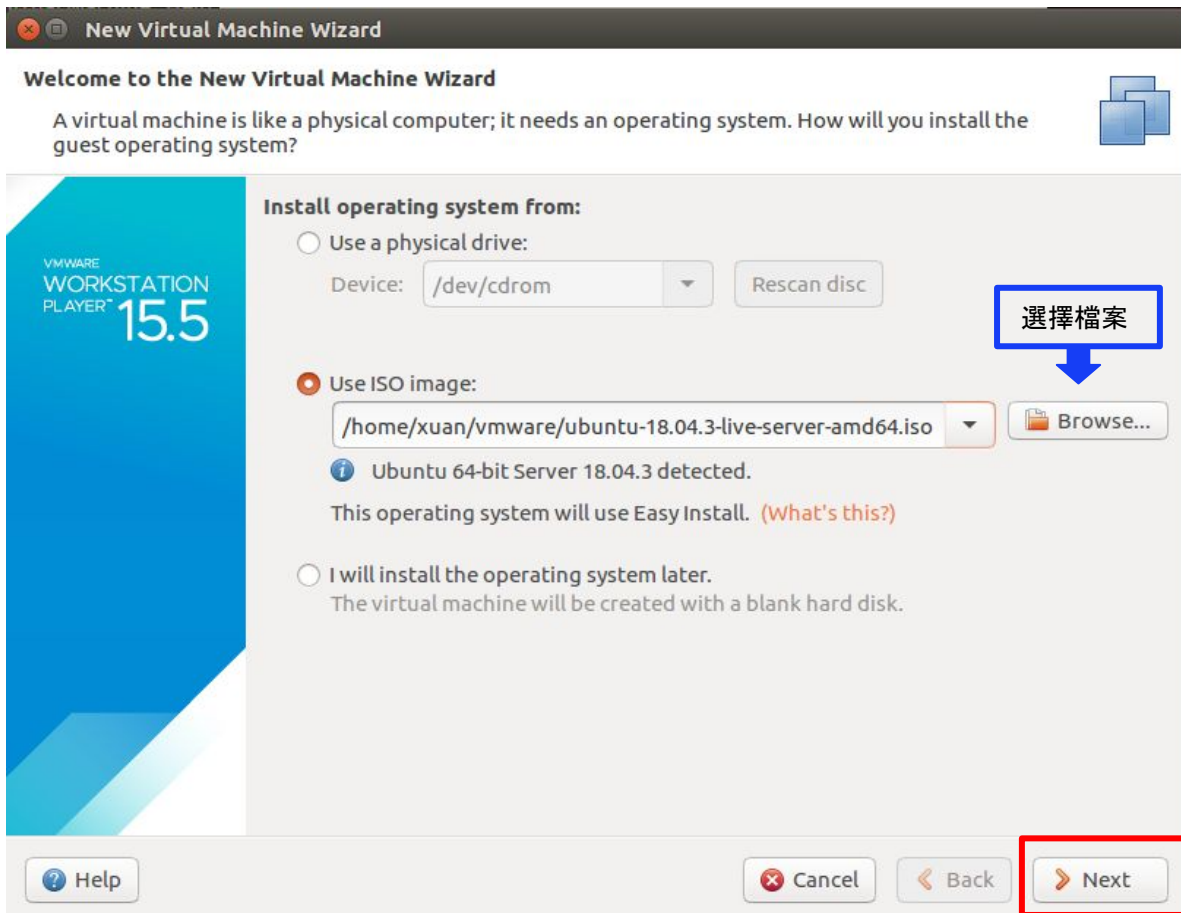




步驟：

選擇 *[Creat a New Virtual Machine](#)*

新建一個虛擬機。



步驟：

選擇 *iso image*.

這邊的版本是
`ubuntu-18.04-live-server-amd.iso`

前面的 `/home/xuan/vmware/` 是我的資料夾路徑。

選擇檔案後 > **Next** 下一個步驟。

New Virtual Machine Wizard

Easy Install Information

This is used to install Ubuntu 64-bit.

VMWARE
WORKSTATION
PLAYER™ 15.5

Personalize Linux

Full name: xuan

User name: xuan

Password:

Confirm:

自訂使用著名稱

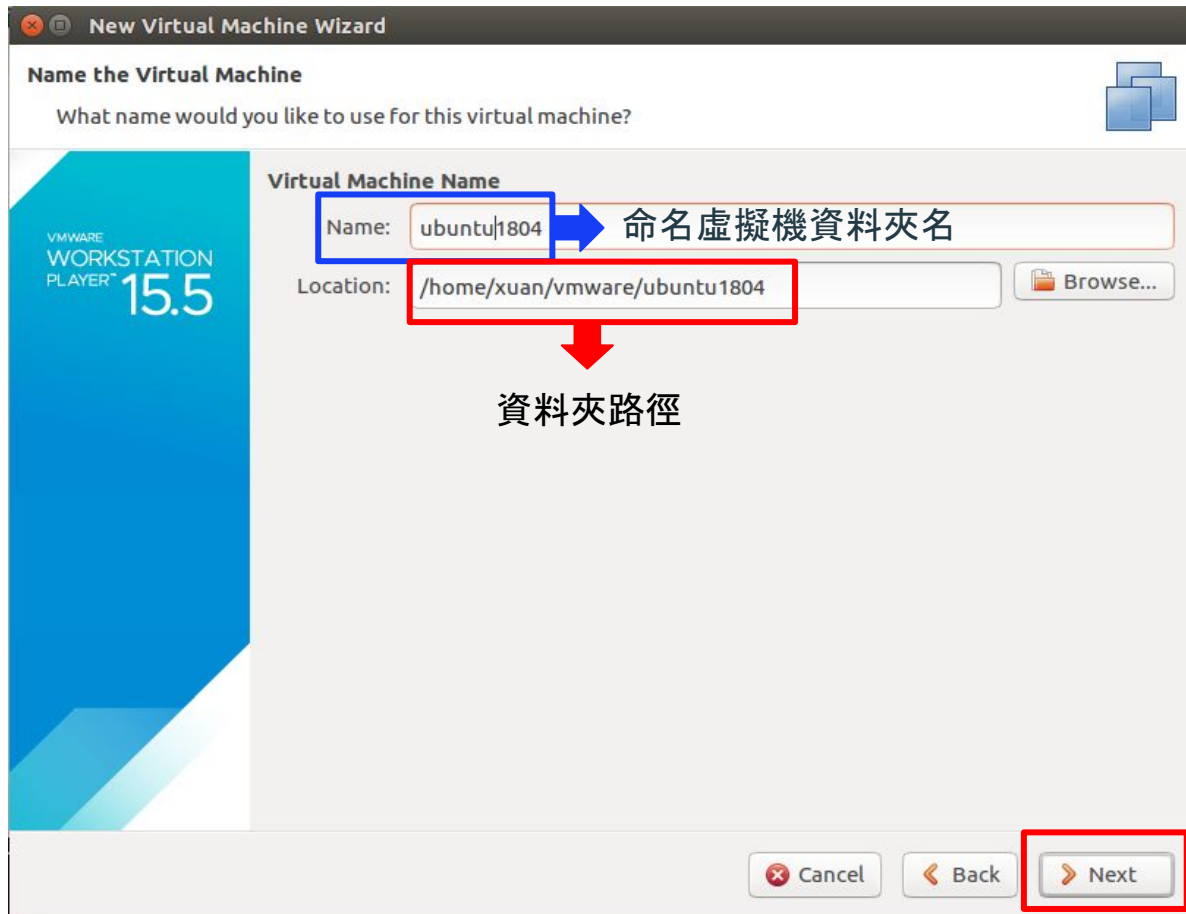
自訂使用著密碼

Help Cancel Back Next

步驟：

這邊是命名使用著名稱及設定密碼。

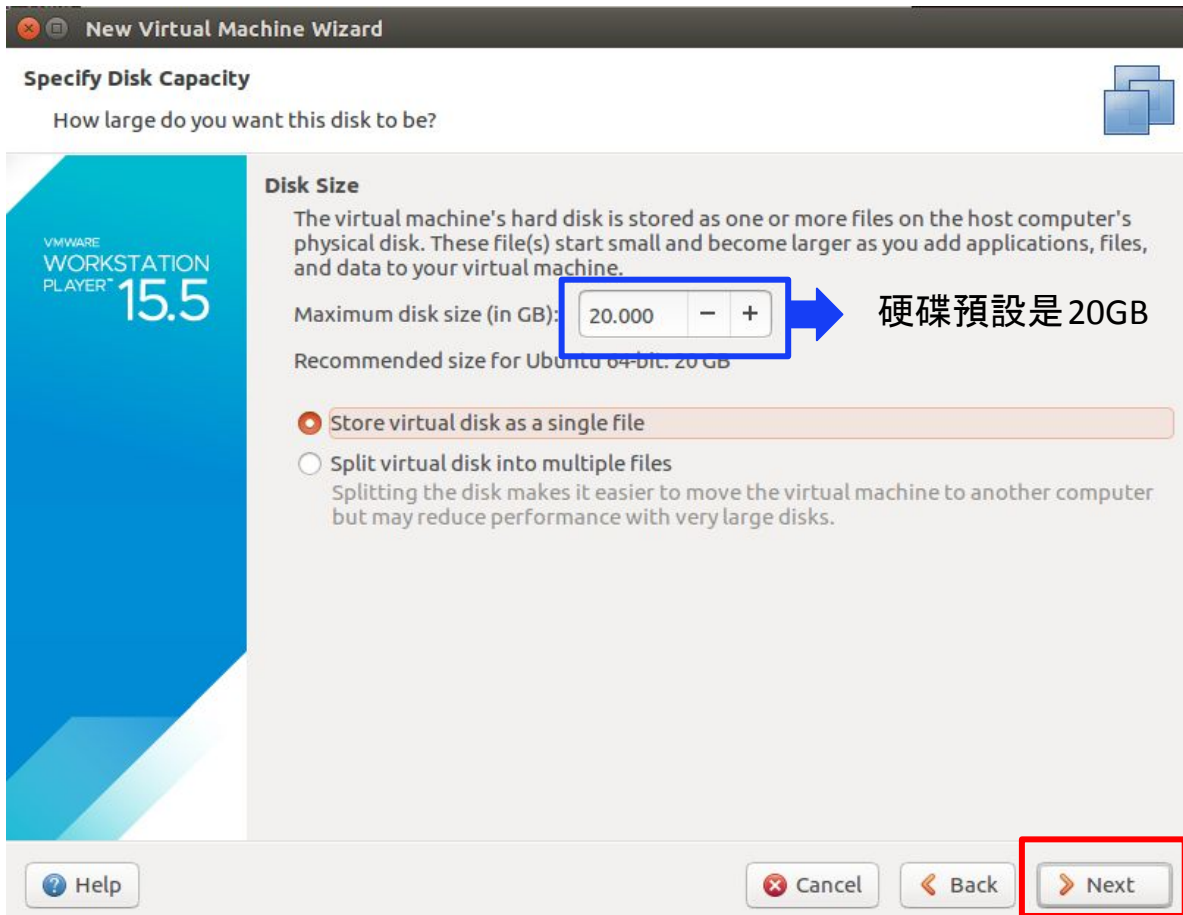
設定完後 > **Next** 下一個步驟。



步驟：

命名虛擬機資料夾名稱。

設定完後 > **Next** 下一個步驟。



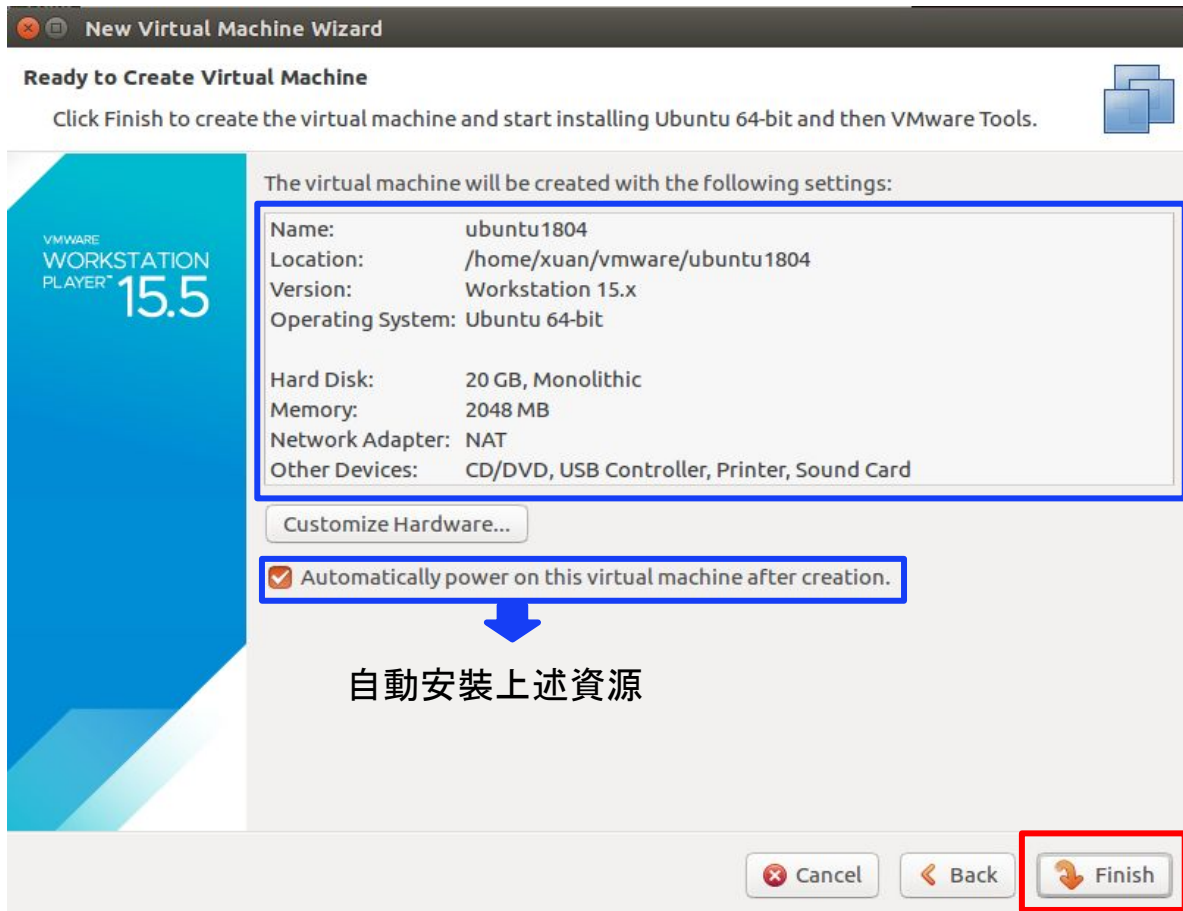
步驟：

設定硬碟大小，依據自己電腦硬碟規格自行設定。

Store virtual disk as a single file: 將虛擬硬碟存儲為單個文件，如果直接在電腦上做安裝，之後備份較為方便。

Split virtual disk into multiple file: 將虛擬硬碟切割為多個文件，如果是用隨身碟安裝或檔案格式為at的就比合適。

設定完後 > **Next** 下一個步驟。



步驟：

準備創建虛擬機，並且將安裝 VMware Tools。

設定完後 > **Finish** 下一個步驟。

```
ISOLINUX 3.82 2009-06-09 ETCD Copyright (C) 1994-2009 H. Peter Anvin et al
[ 2.019353] piix4_smbus 0000:00:07.3: SMBus Host Controller not enabled!
[ 2.687290] sd 2:0:0:0: [sda] Assuming drive cache: write through
touch: /dev/.initramfs/lupin-waited-for-devs: No such file or directory
cp: can't stat '/custom-installation/initrd-override/*': No such file or directory
cp: can't stat '/custom-installation/iso-override/*': No such file or directory
Generating locales (this might take a while)...
    en_US.UTF-8... done
Generation complete.
grep: /root/floppy/preseed.cfg: No such file or directory
Using CD-ROM mount point /cdrom/
Identifying... [82f411df57c9bb5c0ab5a20c70b3a7a7-2]
Scanning disc for index files...
Found 2 package indexes, 0 source indexes, 0 translation indexes and 1 signatures
Found label 'Ubuntu-Server 18.04.3 LTS _Bionic Beaver_ - Release amd64 (20190805)'
This disc is called:
'Ubuntu-Server 18.04.3 LTS _Bionic Beaver_ - Release amd64 (20190805)'
Copying package lists...gpgv: Signature made Mon Aug  5 19:59:57 2019 UTC
gpgv:         using RSA key D94AA3F0EFE21092
gpgv: Good signature from "Ubuntu CD Image Automatic Signing Key (2012) <cdimage@ubuntu.com>"
Reading Package Indexes... Done
Writing new source list
Source list entries for this disc are:
deb cdrom:[Ubuntu-Server 18.04.3 LTS _Bionic Beaver_ - Release amd64 (20190805)]/ bionic main restricted
Repeat this process for the rest of the CDs in your set.
```

步驟：

等待創建虛擬機又...

稍等一下～

Willkommen! Bienvenue! Welcome! Добро пожаловать! Welkom!

Please choose your preferred language.

[English	▶]
[Asturianu	▶]
[Català	▶]
[Hrvatski	▶]
[Nederlands	▶]
[Suomi	▶]
[Français	▶]
[Deutsch	▶]
[Ελληνικά	▶]
[Magyar	▶]
[Latviešu	▶]
[Norsk bokmål	▶]
[Polski	▶]
[Русский	▶]
[Español	▶]
[Українська	▶]

看到這個畫面表示開始設定server環境了。

首先 選擇語言，這邊選擇English。(因為沒有中文，所以點選英文。)

設定完後 Enter鍵 下一個步驟。

Keyboard configuration

Please select your keyboard layout below, or select "Identify keyboard" to detect your layout automatically.

Layout: [English (US) ▼]

Variant: [English (US) ▼]

[Identify keyboard]

設定使用哪種布局的鍵盤？

在台灣使用的都是美式鍵盤，所以這邊選擇`English(US)`。

設定完後 `Done` 下一個步驟。若要返回 `Back` 上一個步驟。

Network connections

Configure at least one interface this server can use to talk to other machines, and which preferably provides sufficient access for updates.

NAME	TYPE	NOTES
[ens33	eth	-
DHCPv4 192.168.37.133/24		
00:0c:29:cf:fb:b1 / Intel Corpor		
[Create bond ▶]		

◀ (close)

Info ▶

Edit IPv4 ▶

Edit IPv6 ▶

Add a VLAN tag ▶

it Ethernet Controller (Copper) (PRO/1000 MT Single Port Adapter)

設定網路接口選擇 *IPv4*.

跳出旁邊選單這裡選擇 *Automatic(DHCP)*.

設定完後 **Done** 下一個步驟。

若要返回 **Back** 上一個步驟。

Edit ens33 IPv4 configuration

IPv4 Method:

Automatic (DHCP) ◀

Manual

Disabled

[Cancel]

Configure proxy

If this system requires a proxy to connect to the internet, enter its details here.

Proxy address:

If you need to use a HTTP proxy to access the outside world, enter the proxy information here. Otherwise, leave this blank.

The proxy information should be given in the standard form of "http://[[user][:pass]@]host[:port]/".

Configure Ubuntu archive mirror

If you use an alternative mirror for Ubuntu, enter its details here.

Mirror address:

You may provide an archive mirror that will be used instead of the default.

詢問此系統是否需要外部連接才能連網？

若需要 這邊填 <http://tw.archive.ubuntu.com/ubuntu>

設定完後 **Done** 下一個步驟, 若要返回 **Back** 上一個步驟。

Filesystem setup

The installer can guide you through partitioning an entire disk either directly or using LVM, or, if you prefer, you can do it manually.

If you choose to partition an entire disk you will still have a chance to review and modify the results.

```
[ Use An Entire Disk ]  
[ Use An Entire Disk And Set Up LVM ]  
[ Manual ]  
[ Back ]
```

用整個硬碟 避免檔案被切割便於管搬移，這裡選 *Use An Entire Disk*.

設定完後 **Done** 下一個步驟，若要返回 **Back** 上一個步驟。

Filesystem setup

The selected guided partitioning scheme creates the required bootloader partition on the chosen disk and then creates a single partition covering the rest of the disk, formatted as ext4 and mounted at '/'.
Choose the disk to install to:

```
[ /dev/sda local disk 20.000G ▶ ]  
partition 1 new, bios_grub 1.000M  
partition 2 new, to be formatted as ext4, mounted at / 19.999G
```

這裡指第一顆 SATA 硬碟，不過不一定 SATA 硬碟代表第一顆硬碟！！

確認後 Done 下一個步驟，若要返回 Back 上一個步驟。

Filesystem setup

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE	TYPE
[/	19.998G	new ext4	new partition of local disk	▶]

AVAILABLE DEVICES

No available devices

[Create software RAID (md) ▶]
[Create volume group (LVM) ▶]

USED DEVICES

DEVICE	TYPE	SIZE
[/dev/sda	local disk	20.000G ▶]
partition 1	new, to be formatted as ext4, mounted at /	19.998G ▶

這裡在說明 硬碟分割區 保留區(依據不同電腦, 這裡顯示的不同又 !!)

確認後 **Done** 下一個步驟, 若要返回 **Back** 上一個步驟。

Confirm destructive action

Selecting Continue below will begin the installation process and result in the loss of data on the disks selected to be formatted.

You will not be able to return to this or a previous screen once the installation has started.

Are you sure you want to continue?

[No]

[Continue]

這裡告訴你，在下邊如果選擇Continue後將開始進行安裝過程，並且將選擇的硬碟區塊格式化，請確保不會使數據丟失。

在安裝開始後，無法再返回或上一步驟。

確認後 Continue 下一個步驟，若要返回no 上一個步驟。

Profile setup

Enter the username and password you will use to log in to the system. You can configure SSH access on the next screen but a password is still needed for sudo.

Your name: xuan

Your server's name: xuan

The name it uses when it talks to other computers.

Pick a username: xuan

Choose a password: *****

Confirm your password: *****

設定登入使用著名稱及密碼。

設定完後 **Done** 下一個步驟。

SSH Setup

You can choose to install the OpenSSH server package to enable secure remote access to your server.

☐ Install OpenSSH server

Import SSH identity: [No ▼]
You can import your SSH keys from Github or Launchpad.

Import Username:

☒ Allow password authentication over SSH

安裝 openssh，之後才能夠遠端連線又！！

確認後 **Done** 下一個步驟。

```
Ubuntu 18.04.3 LTS ubuntu-server tty1
```

```
[ OK ] Started Wait until snapd is fully seeded.  
[ OK ] Reached target Multi-User System.  
[ OK ] Reached target Graphical Interface.  
        Starting Update UTMP about System Runlevel Changes...  
[ OK ] Started Update UTMP about System Runlevel Changes.
```

步驟：

等待安裝 openssh...

Installing system

```
    configuring disk: disk-sda
    configuring partition: partition-0
    configuring partition: partition-1
    configuring format: format-0
    configuring mount: mount-0
configuring network
    running 'curtin net-meta auto'
    curtin command net-meta
writing install sources to disk
    running 'curtin extract'
    curtin command extract
    acquiring and extracting image from cp:///media/filesystem
configuring installed system
    running '/snap/bin/subiquity.subiquity-configure-run'
    running '/snap/bin/subiquity.subiquity-configure-apt'
/snap/subiquity/1093/usr/bin/python3 false'
    curtin command apt-config
    curtin command in-target
running 'curtin curthooks'
    curtin command curthooks
    configuring apt configuring apt
    installing missing packages
    configuring iscsi service
    configuring raid (mdadm) service
    installing kernel \
```

[View full log]

步驟：

安裝系統..

等待一下～

Installation complete!

```
----- Finished install! -----  
/snap/subiquity/1093/usr/bin/python3 false'  
  curtin command apt-config  
  curtin command in-target  
  running 'curtin curthooks'  
  curtin command curthooks  
    configuring apt configuring apt  
    installing missing packages  
    configuring iscsi service  
    configuring raid (mdadm) service  
    installing kernel  
    setting up swap  
    apply networking config  
    writing etc/fstab  
    configuring multipath  
    updating packages on target system  
    configuring pollinate user-agent on target  
  finalizing installation  
    running 'curtin hook'  
    curtin command hook  
  executing late commands  
final system configuration  
  configuring cloud-init  
  restoring apt configuration  
copying logs to installed system
```

[View full log]

[Reboot Now]

步驟：

安裝完成，

選擇重新開機～

```
Starting System Logging Service...
Starting Dispatcher daemon for systemd-networkd...
Starting Login Service...
Starting LXD - container startup/shutdown...
Starting Pollinate to seed the pseudo random number generator...
Starting LSB: automatic crash report generation...
[ OK ] Started FUSE filesystem for LXC.
[ OK ] Started Deferred execution scheduler.
Starting Accounts Service...
Starting Permit User Sessions...
Starting LSB: Record successful boot for GRUB...
[ OK ] Started irqbalance daemon.
[ OK ] Started Regular background program processing daemon.
[ OK ] Started D-Bus System Message Bus.
[ OK ] Started Login Service.
[ OK ] Started Unattended Upgrades Shutdown.
Starting Thermal Daemon Service...
Starting Snappy daemon...
[ OK ] Started System Logging Service.
[ OK ] Started LXD - container startup/shutdown.
[ OK ] Started Permit User Sessions.
Starting Hold until boot process finishes up...
Starting Terminate Plymouth Boot Screen...
[ OK ] Started Hold until boot process finishes up.
Starting Set console scheme...
[ OK ] Started Terminate Plymouth Boot Screen.
[ OK ] Started LSB: automatic crash report generation.
[ OK ] Started Thermal Daemon Service.
[ OK ] Started Set console scheme.
[ OK ] Created slice system-getty.slice.
[ OK ] Started Getty on tty1.
[ OK ] Reached target Login Prompts.
Starting Authorization Manager...
[ OK ] Started Authorization Manager.
[ OK ] Started Accounts Service.
[ OK ] Started LSB: Record successful boot for GRUB.
```

步驟：

看到這黑色畫面，就是
server 正在開機嘍！

Ubuntu 18.04.3 LTS xuan tty1

```
xuan login: [ 21.845321] cloud-init[1411]: Generating locales (this might take a while)...
[ 22.549147] cloud-init[1411]: en_US.UTF-8... done
[ 22.550073] cloud-init[1411]: Generation complete.
[ 22.779738] cloud-init[1411]: Cloud-init v. 19.1-1-gbaa47854-0ubuntu1~18.04.1 running 'modules:config' at Wed, 20 Nov 2019 14:56:43 +0000. Up 21.73 seconds.
ci-info: no authorized ssh keys fingerprints found for user xuan.
<14>Nov 20 14:56:44 ec2:
<14>Nov 20 14:56:44 ec2: #####
<14>Nov 20 14:56:44 ec2: -----BEGIN SSH HOST KEY FINGERPRINTS-----
<14>Nov 20 14:56:44 ec2: 1024 SHA256:VTynByAkcku/yisX/H2c00as0ksNTBjGDhCNfjTzjao root@xuan (DSA)
<14>Nov 20 14:56:44 ec2: 256 SHA256:cDUDJH/vSb9Rvoj299qM/5WEKjoMtnK2T1JZt3DLC1c root@xuan (ECDSA)
<14>Nov 20 14:56:44 ec2: 256 SHA256:tjNCrEVr+fy2MD1Tmn1Xkw7jJ4/qRkZ27kSxs8i2B3I root@xuan (ED25519)
<14>Nov 20 14:56:44 ec2: 2048 SHA256:fbSp2Ma3449sAJKyAUtsEgfbChtfLeTKuU5JXhFXykg root@xuan (RSA)
<14>Nov 20 14:56:44 ec2: -----END SSH HOST KEY FINGERPRINTS-----
<14>Nov 20 14:56:44 ec2: #####
-----BEGIN SSH HOST KEY KEYS-----
ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBftbNRUG/b0o8bFYZ1eEeKxcbo5
opsCDhpbRNjYtgjCz3+4BjCjrAbRpT0tRQsPlzMU198X752b1f46eYMex/g= root@xuan
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAILPt4eiGxBcmkhWX00B/C5EslQc3XL4c6Kg6nKhFm8Z root@xuan
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDBwI8e/ewYixyU2gQIQVz33pPIUPnTsNgn4mR5qMVojGek1VB+zf8i0ZTPdMn
LS9c6StEI2OGcvxI5yWylFXdzshjVDFaDw7jRhukxSKwPsgbSY4foHPdoCdu9DrXrm1ENeppm347BxQYvy+zw1Q5aDxFRJEeH0Z
awbUxkrQSPqis/o2X7X3buFND/cntI0wq9yK79sDswYWCMD7p094CUGXLEcoo0Ijs02+tlPx0iEHSMoXNhRQRWdyjMtDtltAAY
KSuC+SIE2JlW88L+fRe0iP13/TKCDfosqtifHjhrNA4Yd+/XI290YhL29d40BnCwB64+j5Uoqvz0qtuZ root@xuan
-----END SSH HOST KEY KEYS-----
[ 23.354361] cloud-init[1486]: Cloud-init v. 19.1-1-gbaa47854-0ubuntu1~18.04.1 running 'modules:final' at Wed, 20 Nov 2019 14:56:44 +0000. Up 23.21 seconds.
[ 23.354513] cloud-init[1486]: ci-info: no authorized ssh keys fingerprints found for user xuan.
[ 23.354598] cloud-init[1486]: Cloud-init v. 19.1-1-gbaa47854-0ubuntu1~18.04.1 finished at Wed, 20 Nov 2019 14:56:44 +0000. DataSource DataSourceNoCloud [seed=/var/lib/cloud/seed/nocloud-net][dsmod=net]. Up 23.34 seconds
```

步驟:

跑一些系統東西...


```
Ubuntu 18.04.3 LTS xuan tty1
```

```
xuan login: [ 21.845321] cloud-init[1411]: Generating locales (this might take a while)...
[ 22.549147] cloud-init[1411]: en_US.UTF-8... done
[ 22.550073] cloud-init[1411]: Generation complete.
[ 22.779738] cloud-init[1411]: Cloud-init v. 19.1-1-gbaa47854-0ubuntu1~18.04.1 running 'modules:config' at Wed, 20 Nov 2019 14:56:43 +0000. Up 21.73 seconds.
ci-info: no authorized ssh keys fingerprints found for user xuan.
<14>Nov 20 14:56:44 ec2:
<14>Nov 20 14:56:44 ec2: #####
<14>Nov 20 14:56:44 ec2: -----BEGIN SSH HOST KEY FINGERPRINTS-----
<14>Nov 20 14:56:44 ec2: 1024 SHA256:VTynByAkKku/yisX/H2c00as0ksNTBjGDhCNfjTzjao root@xuan (DSA)
<14>Nov 20 14:56:44 ec2: 256 SHA256:cDUDjH/vSb9RvoJ299qM/5WEKjoMtnK2T1JZt3DLC1c root@xuan (ECDSA)
<14>Nov 20 14:56:44 ec2: 256 SHA256:tjNCrevr+fy2MD1Tmn1Xkw7jJ4/qRkZ27kSxs8i2B3I root@xuan (ED25519)
<14>Nov 20 14:56:44 ec2: 2048 SHA256:fbSp2Ma3449sAJKyAUTSEgfbChtfLeTKuU5JXhFXykg root@xuan (RSA)
<14>Nov 20 14:56:44 ec2: -----END SSH HOST KEY FINGERPRINTS-----
<14>Nov 20 14:56:44 ec2: #####
-----BEGIN SSH HOST KEY KEYS-----
ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdhAyNTYAAABBBFtbNRUG/b0o8bFY2leEeKxcB05C
opsCDhpbRNjYtgjCz3+4BjCjrAbRpT0tRQsPlzMU198X752b1f46eYMex/g= root@xuan
ssh-ed25519 AAAAC3NzaC1l2DI1NTE5AAAAILPt4eiGxBcmkhWX00B/C5Esp1Qc3XL4c6Kg6nKhFm8Z root@xuan
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDBwI8e/ewYixuY2gQIQVz33pPIUPnTsNgn4mR5qMVojGek1VB+zf8i0ZTPdMNa
LS9c6StEI20GcvxI5yWYLFxdzshjVDFaDw7jRhwxSKwPsgbSY4foHPdoCdu9DrXrm1ENEPpm347BxQYvyv+zW1Q5aDxFRJEEH0ZU
aUwUxkrQSPqis/p2XX7X3buFND/cntI0wq9yK79sDsWYKCMD7p094CUGXLEcooDIjs02+tLPxDiEHSMoXNhrQRWDyJMtDlttAAYe
KSuC+SlE2JlW88L+fReoiP13/TKCDfosqtifHjhrNA4Yd+/XI290YhL29d40BnCwB64+j5Uoqvz0qtuZ root@xuan
-----END SSH HOST KEY KEYS-----
[ 23.354361] cloud-init[1486]: Cloud-init v. 19.1-1-gbaa47854-0ubuntu1~18.04.1 running 'modules:final' at Wed, 20 Nov 2019 14:56:44 +0000. Up 23.21 seconds.
[ 23.354513] cloud-init[1486]: ci-info: no authorized ssh keys fingerprints found for user xuan.
[ 23.354598] cloud-init[1486]: Cloud-init v. 19.1-1-gbaa47854-0ubuntu1~18.04.1 finished at Wed, 20 Nov 2019 14:56:44 +0000. Datasource DataSourceNoCloud [seed=/var/lib/cloud/seed/nocloud-net] [dsmode=net]. Up 23.34 seconds
```

```
Ubuntu 18.04.3 LTS xuan tty1
```

```
xuan login: _
```

步驟：

準備登入嘍！

輸入剛剛設定的使用著名稱，輸入完 **enter** 鍵輸入密碼。


```
Ubuntu 18.04.3 LTS xuan tty1

xuan login: xuan
Password:
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-55-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Wed Nov 20 14:59:00 UTC 2019

System load:  0.07           Processes:            178
Usage of /:   18.2% of 19.56GB Users logged in:          0
Memory usage: 11%           IP address for ens33: 192.168.37.134
Swap usage:   0%

0 packages can be updated.
0 updates are security updates.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

xuan@xuan:~$ _
```

步驟：

看到紅框，表示登入成功！進入 [linux server](#) 了。

恭喜完成安裝 Linux server ! !