Jitsi Meet server 安裝參考文件
1090424 第六版

<本文件主要提供新北校長科技領導社群及教育單位參考使用，持續更新中…>

分享者：

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聯絡資訊：（本文件若有修改建議處，歡迎來信告知～）

mingkult@gmail.com
https://emaker.tw

後續更新版文件下載處

https://ezschool.tw
https://ntpcgo.tw

※本文件歡迎大家分享一起讓「Zoom out」時代更便利，但建議註明

出處以讓後續文件得以流傳，讓更多教育人員受益～

參考文件：

- https://jitsi.org/what-is-jitsi/

- https://jitsi.org/downloads/

- https://github.com/jitsi/jitsi-meet/blob/master/doc/quick-install.md?fbclid=IwAR3odiq26-UhHLndO2Xi35PUrj53t53TdP8o89aKdey4TJYYjI7HAG8sbbQ#systemd-details

安裝前討論：

● 為什麼要裝這部伺服器？

● 其他類似功能

● Google hangouts meet vs. Jitsi meet

● Opensource ?

● free software ?（UMCD）

● 相關文件《連結》

安裝前準備：

● 下載 ubuntu 作業系統 18.04 server iso

    ■ https://zh.wikipedia.org/wiki/Ubuntu

    ■ https://ubuntu.com/download/server

● rufus 工具軟體

    ■ https://rufus.ie/

    ■ https://zh.wikipedia.org/wiki/Rufus

    ■ 安裝完後，即可利用 rufus 做好一個 ubuntu 安裝隨身碟

● 隨身碟一個，4G 就夠用了，製做安裝隨身碟用

● 一部簡單的主機，新北市的教育夥伴可使用十年前教育局配發的

    主機，Acer L480（經實測過後 29 名學生同時上線使用 ok，感謝

張原禎老師於 1090409 用心協助測試～），後續如果常用，貴校可視自有經費換新即可

- 另一部有安裝 windows 作業系統的電腦，遠端管理暫用用，也就是在接下來在這篇文件中會提到的（電腦 B）

- 您要在學校安裝的 Server 主機相關網路設定資訊

  - Server name：例如 hi.tres.ntpc.edu.tw

  - IP：例如 163.20.28.156

  - Netmask ：例如 255.255.255.128

  - Default getway：例如 163.20.28.254

  - Dns server ：例如 203.72.153.153

    - 紫色的文字是這次上課的範例，各位回學校後，請務必加以更新為貴校網路的資料

    - 新北市的教育夥伴們請務必在上課前一天提早到 https://webdns.ntpc.edu.tw/login.php，
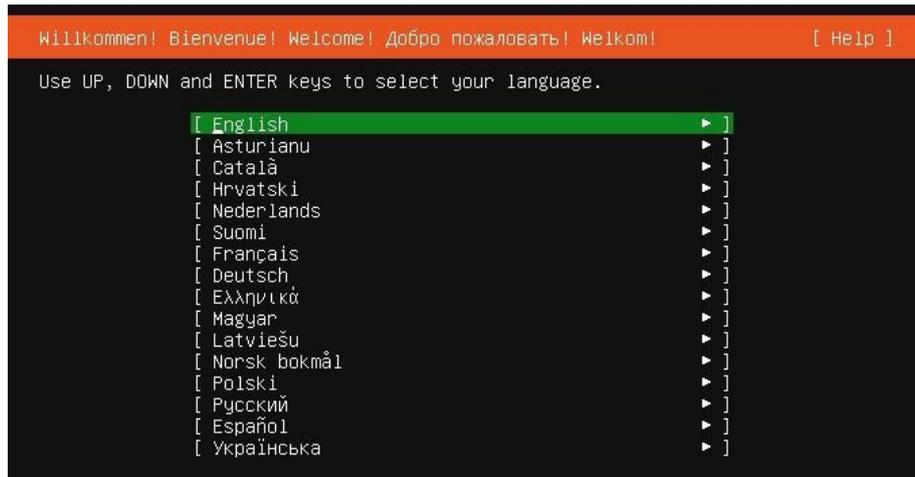
      在此設定 DNS 的 A record，例如將 163.20.28.156 指向 hi.tres.ntpc.edu.tw

安裝 ubuntu 18.04 server

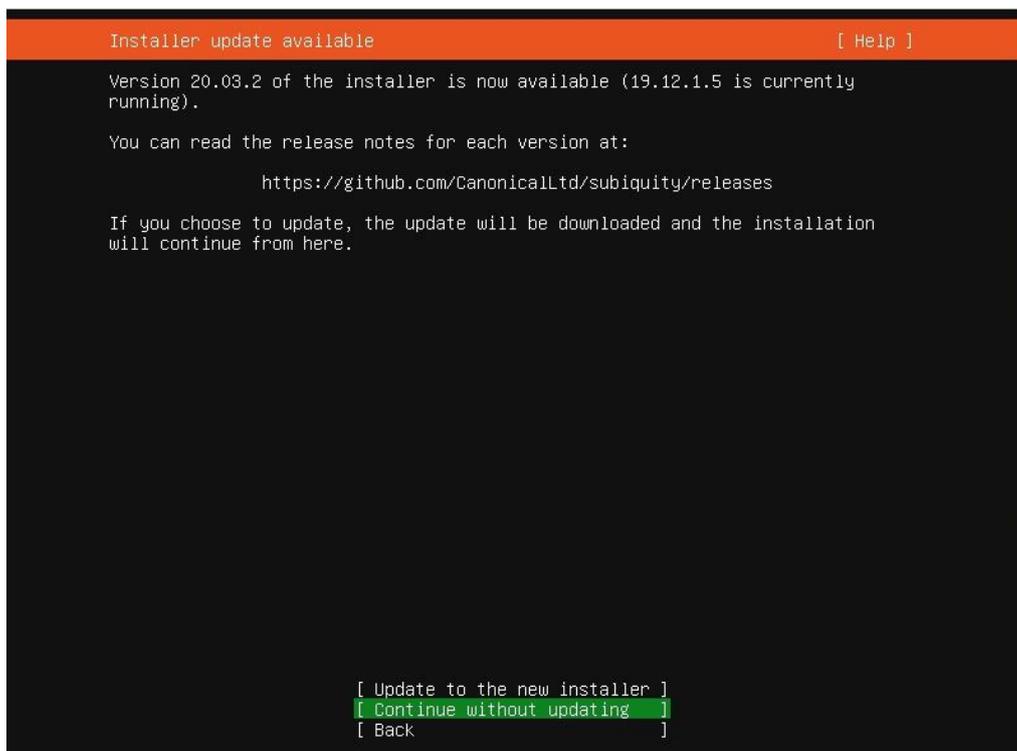● 使用 Ubutu server 18.04 安裝隨身碟開機（請使用 BIOS 調整，本次用的範例主機 Acer L480 請在開機聲後按 F12 鍵來進行調整），開始進行安裝程序，
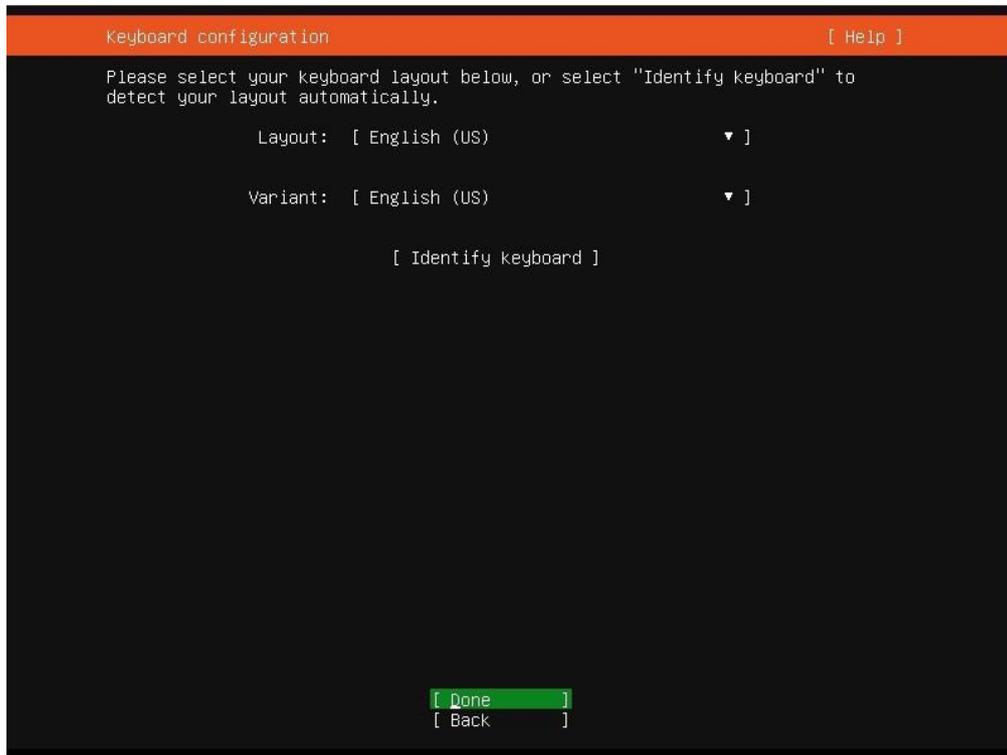
看到這個畫面後，選取預設的「English」即可，按 enter 繼續

```
Willkommen! Bienvenue! Welcome! Добро пожаловать! Welkom!        [ Help ]

Use UP, DOWN and ENTER keys to select your language.

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

接下來如果看到這個畫面，

選取預設的「Continue without updating」即可，按 enter 繼續，
※如果沒有出現這個畫面，不用理會，可直接跳至下一步驟※

```
Installer update available                                      [ Help ]

Version 20.03.2 of the installer is now available (19.12.1.5 is currently
running).

You can read the release notes for each version at:

              https://github.com/CanonicalLtd/subiquity/releases

If you choose to update, the update will be downloaded and the installation
will continue from here.




                        [ Update to the new installer ]
                        [ Continue without updating    ]
                        [ Back                          ]
```

接著看到這個畫面是「鍵盤設定」，

選取預設的[Done]即可，按 enter 繼續

```
Keyboard configuration                                    [ Help ]

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

              Layout:   [ English (US)                    ▼ ]

              Variant:  [ English (US)                    ▼ ]

                        [ Identify keyboard ]




                              [ Done          ]
                              [ Back          ]
```

接下來是是 Networ connections，這個步驟是要設定網路環境，

很重要！請各位務必確實操作

```
Network connections                                       [ Help ]

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
[ enp0s3   eth   -                    ▶ ]
   DHCPv4  10.0.2.15/24
   08:00:27:e0:43:d1 / Intel Corporation / 82540EM Gigabit Ethernet Controller
(PRO/1000 MT Desktop Adapter)

[ Create bond ▶ ]







                              [ Done          ]
                              [ Back          ]
```
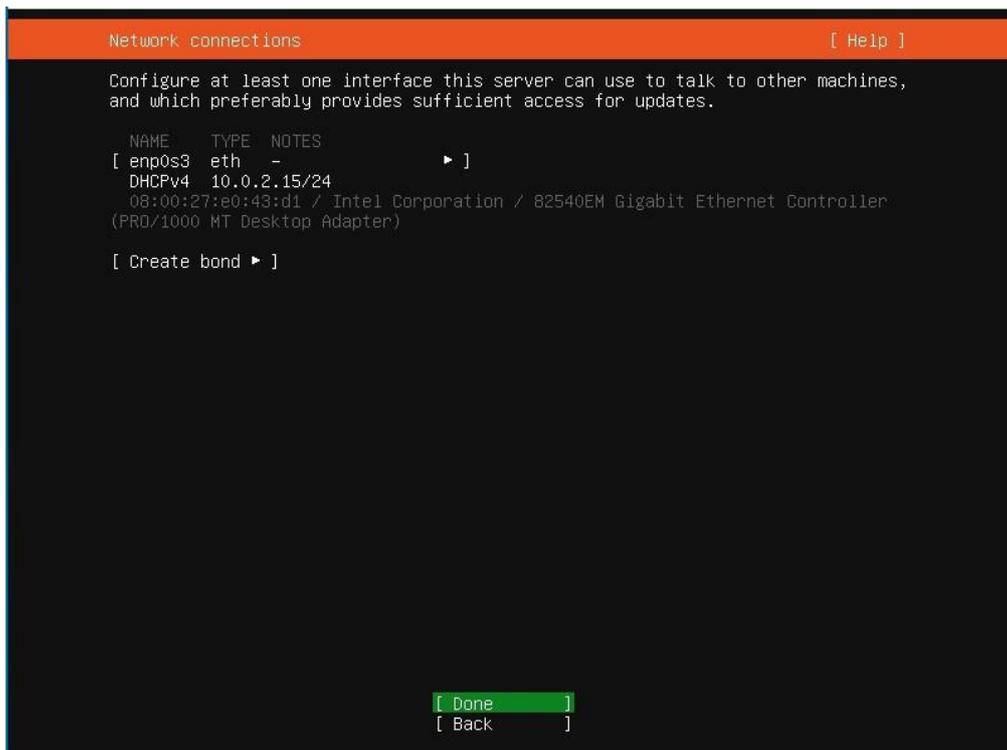
選擇主機網路卡（代號不一定是 enp0s3，視網路卡型號不同），

按 enter 進入次選單，選「Edit IPv4」

```
Network connections                                      [ Help ]

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
[ enp0s3  eth   -                        ] ◄ (close)
    DHCPv4  10.0.2.15/24                     Info              ►
    08:00:27:e0:43:d1 / Intel Corpor         Edit IPv4         ► it Ethernet Controller
(PRO/1000 MT Desktop Adapter)               Edit IPv6         ►
                                            Add a VLAN tag    ►
[ Create bond ► ]
```

將「Automatic (DHCP)」

```
┌─────── Edit enp0s3 IPv4 configuration ───────┐
│                                              │
│  IPv4 Method:  [ Automatic (DHCP) ▼ ]        │
│                                              │
│                                              │
│                    [ Save      ]             │
│                    [ Cancel    ]             │
│                                              │
└──────────────────────────────────────────────┘
```

改為「（Manual）」

```
┌─────── Edit enp0s3 IPv4 configuration ───────┐
│                                              │
│  IPv4 Method:   Automatic (DHCP) ◄           │
│                 Manual                       │
│                 Disabled                     │
│                                    ]         │
│                    [ Cancel     ]            │
│                                              │
└──────────────────────────────────────────────┘
```

接下來請填入這部伺服器的網路設定

```
┌─────── Edit enp0s3 IPv4 configuration ───────┐
│  IPv4 Method:  [ Manual         ▼ ]          │
│                                              │
│      Subnet:  [                        ]     │
│                                              │
│     Address:  [                        ]     │
│                                              │
│     Gateway:  [                        ]     │
│                                              │
│ Name servers: [                        ]     │
│               IP addresses, comma separated  │
│ Search domains:[                       ]     │
│               Domains, comma separated       │
│                    [ Save      ]             │
│                    [ Cancel    ]             │
└──────────────────────────────────────────────┘
```

以下將這次研習範例主機資訊給各位參考，但請勿照抄…

完成後，請按「save」進入下一步

```
┌─────────── Edit enp0s3 IPv4 configuration ───────────┐
  IPv4 Method:    [ Manual              ▼ ]

          Subnet: ┌─────────────────────────────────┐
                  │163.20.28.0/24                   │
                  └─────────────────────────────────┘
         Address: ┌─────────────────────────────────┐
                  │163.20.28.156                    │
                  └─────────────────────────────────┘
         Gateway: ┌─────────────────────────────────┐
                  │163.20.28.254                    │
                  └─────────────────────────────────┘
    Name servers: ┌─────────────────────────────────┐
                  │203.72.153.153                   │
                  └─────────────────────────────────┘
                  IP addresses, comma separated
  Search domains: ┌─────────────────────────────────┐
                  │tres.ntpc.edu.tw                 │
                  └─────────────────────────────────┘
                  Domains, comma separated
                       [ Save       ]
                       [ Cancel     ]
```

在「網路連接設定」完成後，會出現[Done]這個選項，

即可按 enter 進入下一步，

<但是如果沒有看到 Done 代表您的網路設定或網路線路有問題，請加以確認後排除。>

```
 Network connections                              [ Help ]

 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
 [ enp0s3  eth   -                   ▶ ]
   DHCPv4  10.0.2.15/24
   08:00:27:e0:43:d1 / Intel Corporation / 82540EM Gigabit Ethernet Controller
 (PRO/1000 MT Desktop Adapter)

 [ Create bond ▶ ]




                            [ Done       ]
                            [ Back       ]
```

這個 configure proxy 設定直接選[Done]，按 enter 進入下一步

這個 configure ubuntu archive mirror 設定直接選[Done]，

按 enter 進入下一步

選取預設的「Continue without updating」即可，按 enter 繼續，

※如果沒有出現這個畫面，不用理會，可直接跳至下一步驟※

這個 filesystem setup 設定也直接選「Use An Entire Disk」後

選[Done]，按 enter 進入下一步

這個 Filesystem setup 步驟也選[Done]，按 enter 進入下一步

```
Filesystem setup                                              [ Help ]

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:

    [ VBOX_HARDDISK_VBe705d65c-cbd97336  local disk    63.999G  ► ]
         unused
















                          [ Cancel    ]
```

這個 Filesystem setup 步驟也選[Done]，按 enter 進入下一步

```
Filesystem setup                                              [ Help ]

FILE SYSTEM SUMMARY

  MOUNT POINT     SIZE    TYPE      DEVICE TYPE
[ /              63.996G  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
[ VBOX_HARDDISK_VBe705d65c-cbd97336          local disk   63.999G  ► ]
  partition 1  new, bios_grub                             1.000M   ►
  partition 2  new, to be formatted as ext4, mounted at /  63.996G  ►







                          [ Done     ]
                          [ Reset    ]
                          [ Back     ]
```

接下來會出現 confirm destructive action 這個選項

系統要確定您是否真的準備好開始安裝了嗎？

因為原來硬碟上的資料會全部消失！原來硬碟上的資料會全部消失！

如果確定要進行安裝，請選「Continue」，按 enter 進入下一步
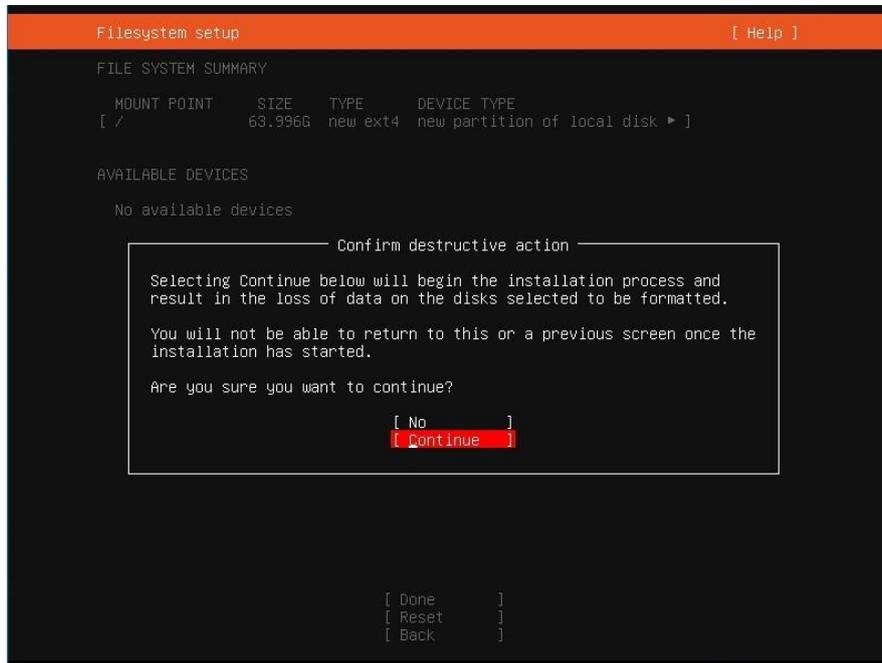
這個 Profie setup 步驟請輸入伺服器管理者的帳號及密碼，

相關資訊請妥為留存！也勿使用太簡單的密碼為宜！
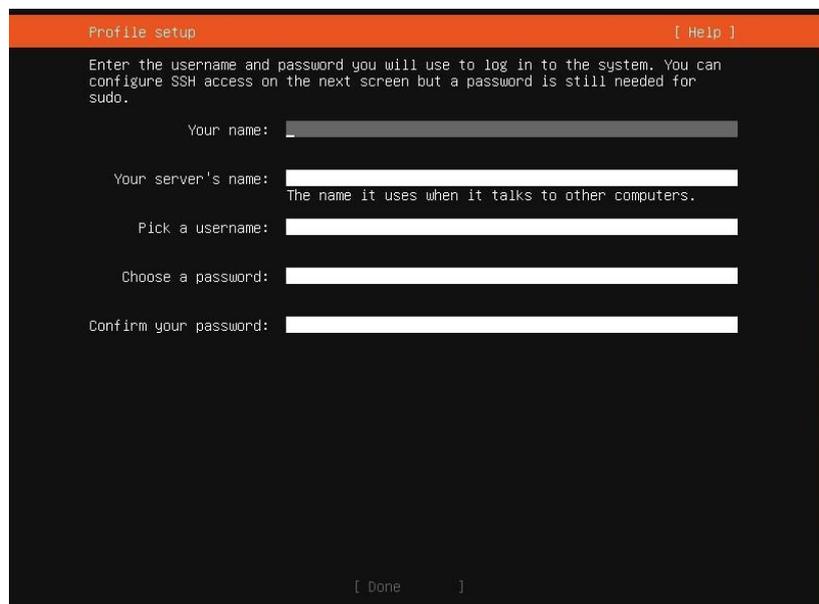
提供這次研習的範例主機資訊給各位參考，一樣不要抄…

```
Profile setup                                              [ Help ]

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:  mingkult

    Your server's name:  hi
                         The name it uses when it talks to other computers.

       Pick a username:  mingkult

     Choose a password:  ********

  Confirm your password:  ********_


                              [ Done        ]
```
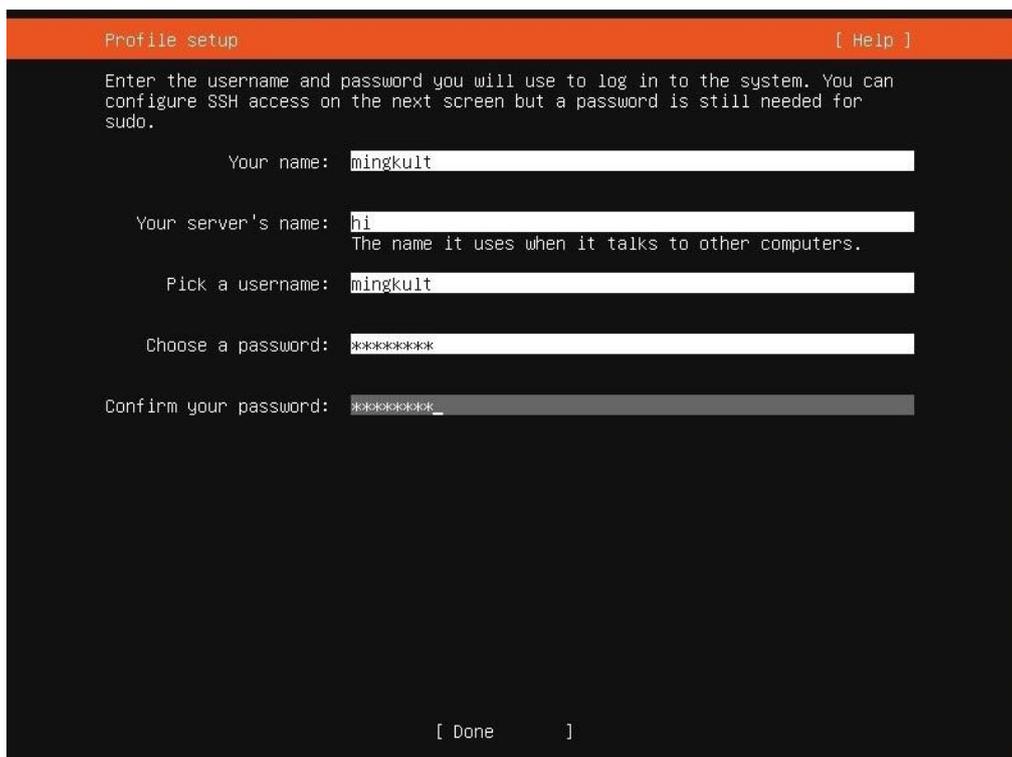
接下來這個 SSH Setup 步驟很重要，請移動鍵盤「空白鍵」選取

「Install OpenSSH server」，出現[X]（如下圖），後續您即可安全地進

行遠端伺服器設定及管理！完成後選[Done]，按 enter 進入下一步

```
SSH Setup                                                  [ Help ]

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

            [X]  Install OpenSSH server

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

    Import Username:

            [X]  Allow password authentication over SSH
```

```
                              [ Done        ]
                              [ Back        ]
```

12
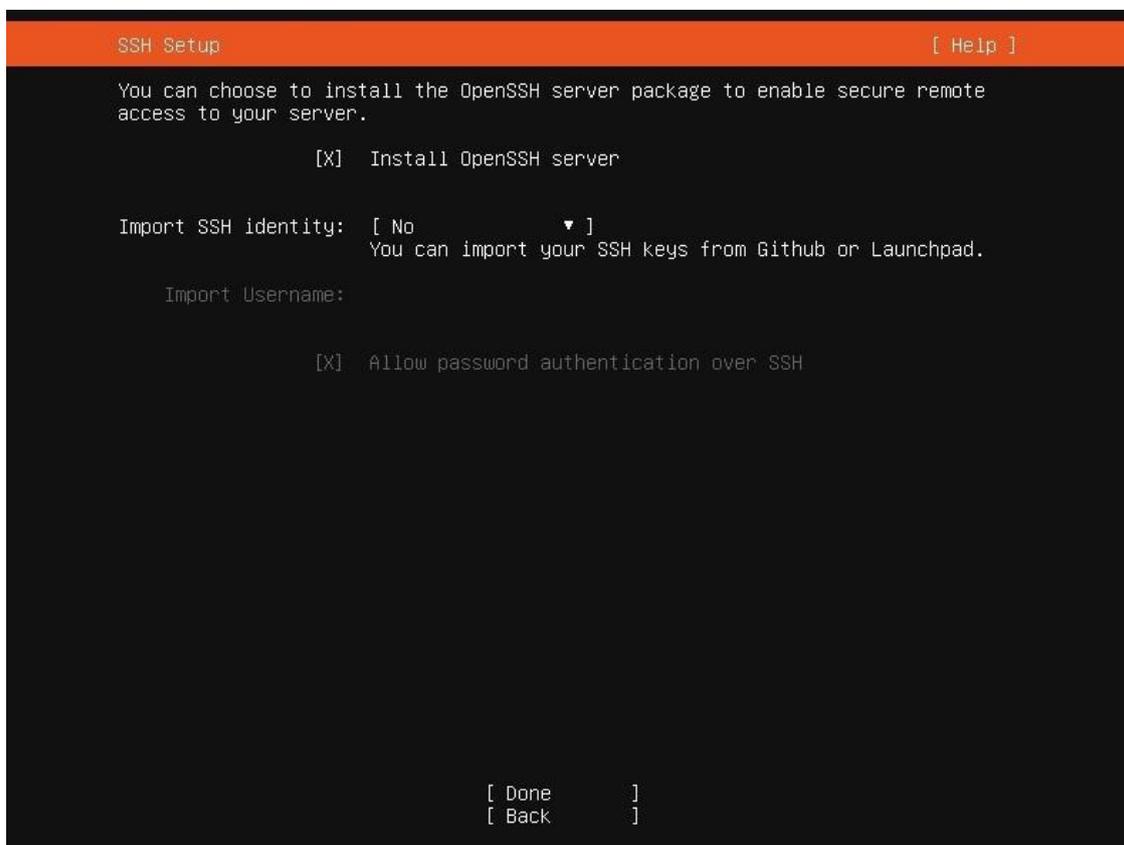
這個 Featured Server Snaps，都不用選，直接
用 tab 鍵移到[Done]，按 enter 進入下一步

```
Featured Server Snaps                                          [ Help ]

These are popular snaps in server environments. Select or deselect with SPACE,
press ENTER to see more details of the package, publisher and versions
available.

( ) microk8s           Kubernetes for workstations and appliances        ▶
( ) nextcloud          Nextcloud Server - A safe home for all your data   ▶
( ) wekan              Open-Source kanban                                 ▶
( ) kata-containers    Lightweight virtual machines that seamlessly plug int ▶
( ) docker             Docker container runtime                           ▶
( ) canonical-livepatch Canonical Livepatch Client                        ▶
( ) rocketchat-server  Group chat server for 100s, installed in seconds.  ▶
( ) mosquitto          Eclipse Mosquitto MQTT broker                      ▶
( ) etcd               Resilient key-value store by CoreOS                ▶
( ) powershell         PowerShell for every system!                       ▶
( ) stress-ng          A tool to load, stress test and benchmark a computer ▶
( ) sabnzbd            SABnzbd                                            ▶
( ) wormhole           get things from one computer to another, safely    ▶
( ) aws-cli            Universal Command Line Interface for Amazon Web Servi ▶
( ) google-cloud-sdk   Command-line interface for Google Cloud Platform prod ▶
( ) slcli              Python based SoftLayer API Tool.                    ▶
( ) doctl              DigitalOcean command line tool                      ▶
( ) conjure-up         Package runtime for conjure-up spells               ▶
( ) minidlna-escoand   server software with the aim of being fully compliant ▶
( ) postgresql10       PostgreSQL is a powerful, open source object-relation ▶
( ) heroku             CLI client for Heroku                              ▶
( ) keepalived         High availability VRRP/BFD and load-balancing for Lin ▶
( ) prometheus         The Prometheus monitoring system and time series data ▶
( ) juju               Simple, secure and stable devops. Juju keeps complexi ▶

                          [ Done      ]
                          [ Back      ]
```

接下來可以看到安裝中的畫面

```
Installing system                                             [ Help ]

  configuring storage
    running 'curtin block-meta simple'
      curtin command block-meta
        removing previous storage devices
        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/1459/usr/bin/python3 true'
      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 ]
```

此時開始進行安裝程序中，建議各位可休息一下，不要去動鍵盤！

以免誤觸按到[Cancel update and reboot]指令

```
Installation complete!                                      [ Help ]
┌───────────────────── Finished install! ─────────────────────┐
│    running '/snap/bin/subiquity.subiquity-configure-run'     │
│    running '/snap/bin/subiquity.subiquity-configure-apt      │
│/snap/subiquity/1459/usr/bin/python3 true'                    │
│      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            │
│        updating initramfs configuration                      │
│    finalizing installation                                   │
│      running 'curtin hook'                                   │
│        curtin command hook                                   │
│    executing late commands                                   │
│  final system configuration                                  │
│    configuring cloud-init                                    │
│    installing openssh                                        │
│    restoring apt configuration                               │
│  downloading and installing security updates -               │
│                                                              │
│                   [ View full log            ]               │
│                   [ Cancel update and reboot ]               │
└──────────────────────────────────────────────────────────────┘
```

全部安裝完成後，您即可看到[Reboot]的文字出現，恭喜您！

請按 enter 鍵即可重新開機，正式開始運作這部伺服器！

```
Installation complete!                                      [ Help ]
┌───────────────────── Finished install! ─────────────────────┐
│    running '/snap/bin/subiquity.subiquity-configure-apt      │
│/snap/subiquity/1459/usr/bin/python3 true'                    │
│      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            │
│        updating initramfs configuration                      │
│    finalizing installation                                   │
│      running 'curtin hook'                                   │
│        curtin command hook                                   │
│    executing late commands                                   │
│  final system configuration                                  │
│    configuring cloud-init                                    │
│    installing openssh                                        │
│    restoring apt configuration                               │
│  downloading and installing security updates                 │
│  copying logs to installed system                            │
│                                                              │
│                   [ View full log ]                          │
│                   [ Reboot ]                                 │
└──────────────────────────────────────────────────────────────┘
```

重開機程序進行，各位可看到以下類以文字跳動畫面

```
ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBLPqWj8QJbo4w+X96J4s128AUX1W
YTQLt12mQp+nwCxXdasvpMMECxwbCsJCJO9XZ7Wd2xZvbetH/UiC8jdf4WA= root@si
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIPaYtT7yNZH8cwUDoBWqNjUZnoRtJ66maoSVhbjuyfX5 root@si
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDDk/3t3FyrV8LV5CPPyHJVhH+wFI1Op4nIQVrZey95jax62lU39KFVeyMrtmFA
MM2vyYJdt5BOHzPikU+jciwuVtf/4Qy3SjfBn17d6YJu51rW9zCGpzRW+BcWxiGfa2pBrNNqqej6J4Ds8xpj6lr+0t+yjphr6T4w
0f0982zqSPcAJlaajt6XauD76i8WlB1T4eAgn2L/GYuWp8bDSLy1HB2iRtzw0rhZ63o8wHH8KUh3oOr/iJWB9m1UFprx1AQTdURP
EUjpNktQli4NSqgG9uSSFexKrBD/4+ny9OpZOqgFOZ+I/ZccbLLc011VrgL+Y7w4FbvbjEbdH1dwUKOh root@si
-----END SSH HOST KEY KEYS-----
[   19.368076] cloud-init[1580]: Cloud-init v. 19.4-33-gbb4131a2-0ubuntu1~18.04.1 running 'modules:f
inal' at Mon, 13 Apr 2020 07:10:40 +0000. Up 19.29 seconds.
[   19.369139] cloud-init[1580]: ci-info: no authorized SSH keys fingerprints found for user mingkul
.
[   19.370157] cloud-init[1580]: Cloud-init v. 19.4-33-gbb4131a2-0ubuntu1~18.04.1 finished at Mon, 1
3 Apr 2020 07:10:40 +0000. Datasource DataSourceNoCloud [seed=/var/lib/cloud/seed/nocloud-net][dsmod
e=net].  Up 19.36 seconds
[  OK  ] Started Execute cloud user/final scripts.
[  OK  ] Reached target Cloud-init target.
^[[18~
```

看到 「login:」的畫面即可，接下來如果有看到一堆說明文字

各位可以不需理會，可再按 enter 鍵即會出現以下登入畫面

```
Ubuntu 18.04.4 LTS hi tty1

hi login:
```

接下來要進行遠端操作這部伺服器的動作，請使用其他的一般 windows 作業系統電腦，也就是請各位先準備的另一部電腦（電腦 B），在這部電腦安裝 Putty 這套遠端管理的自由軟體

請到 https://ezschool.tw 網站下載 ssh 可攜式版本《連結》，解壓縮後即可直接使用，啟動程式後畫面如下：

請輸入伺服器主機 IP（請看本文件第 7 頁，您之前所設定的資訊），

那個 22 數字不用去更改，接著選 Open
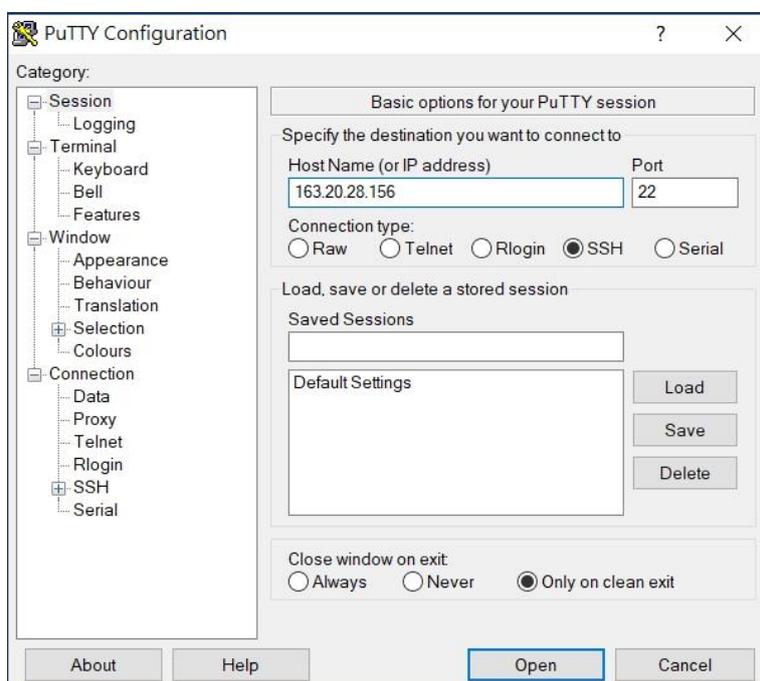
第一次連線會看到這個警示畫面，正常，請按「是」

login:輸入您的帳號及密碼 （請看本文件第 11 頁，您之前所設定的資訊）

接著在~$提示符號後 輸入 sudo su -（中間有空格，sudo 空格 su 空格-）

按 enter 執行後，系統會請您再一次輸入密碼

此時您已進入超級使用者模式，提示符號由 ~$ 變成 ~#

接下來您擁有伺服器管理員的權限，

在執行任何指令都要特別小心注意！

第一種版本是參考 jitsi 來源網站參考件而來，安裝方法在本文件第 19 頁到第 22 頁。

第二種版本為陽明大學陳育群教授在 1090424 帶領團隊改進 jitsi 原始碼而成的進階版本，安裝方法在本文件第 24 頁到第 29 頁。

請視貴校需求決定安裝版本，前者功能較基本，安裝方法亦較簡便，後項擁有更多功能，如錄影及限定會議室使用者，也具更佳的保密功能。

開始安裝 jitsi server 相關程式：

```
Last login: Fri Apr 10 05:59:03 2020 from 10.242.30.128
mingkult@hi:~$ sudo su -
[sudo] password for mingkult:
root@hi:~# wget -qO - https://download.jitsi.org/jitsi-key.gpg.key | sudo apt-ke
y add -
```

● 請依序將下列#之後的文字指令加以輸入，一個字都不能錯也不能少！

● 建議您下載這個文件《連結》後，再將那個網頁文件上的紅色文字部份依序複製及貼上處理！

#echo 'deb https://download.jitsi.org stable/' >> /etc/apt/sources.list.d/jitsi-stable.list

#wget -qO -   https://download.jitsi.org/jitsi-key.gpg.key | sudo apt-key add –

apt-get update

#apt-get install apt-transport-https

#apt-get -y install jitsi-meet

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執行時的參考畫面

進行時，因為連到國外伺服器，所以要花一些時間，請耐心等候～

完成後會看到以下畫面
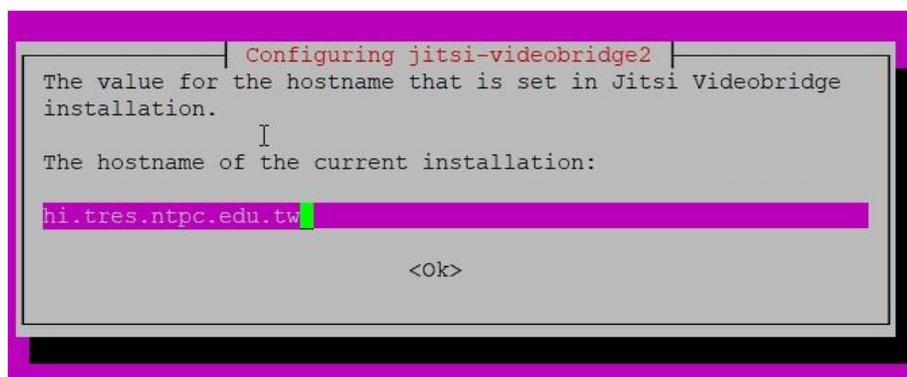
輸入伺服器主機名稱 hostname，再按 enter

範例：hi.tres.ntpc.edu.tw

選取 Generate a new self………………..再按 enter

```
┤ Configuring jitsi-meet-web-config ├
t to be set up with an SSL certificate. Having no
lf-signed one will be generated. By choosing
ill later have a chance to install Let's Encrypt
ing a certificate signed by a recognised CA, it can be
erver and point its location. The default filenames
--domain.name--.key for the key and
.name--.crt for the certificate.

or the Jitsi Meet instance

    Generate a new self-signed certificate (You will later get a chance to obt
    I want to use my own certificate


                              <Ok>
```

接下來是 SSL 加密設定程序

#/usr/share/jitsi-meet/scripts/install-letsencrypt-cert.sh

```
Processing triggers for ca-certificates (20180409) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...

done.
done.
Processing triggers for ufw (0.36-0ubuntu0.18.04.1) ...
Processing triggers for ureadahead (0.100.0-21) ...
ureadahead will be reprofiled on next reboot
Processing triggers for libc-bin (2.27-3ubuntu1) ...
root@hi:~# /usr/share/jitsi-meet/scripts/install-letsencrypt-cert.sh
-------------------------------------------------------------------------
This script will:
- Need a working DNS record pointing to this machine(for domain hi.tres.ntp
- Download certbot-auto from https://dl.eff.org to /usr/local/sbin
- Install additional dependencies in order to request Let's Encrypt certifi
- If running with jetty serving web content, will stop Jitsi Videobridge
- Configure and reload nginx or apache2, whichever is used

You need to agree to the ACME server's Subscriber Agreement (https://letsen
-v1.1.1-August-1-2016.pdf)
by providing an email address for important account notifications
Enter your email and press [ENTER]:
```

請輸入您的電子郵件即可

ok，Jitsi server 全部安裝完成，恭喜您～

請打開瀏覽器，輸入伺服器網址，觀看各位的作品！恭喜！

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Secure, fully featured, and completely free video conferencing

Go ahead, video chat with the whole team. In fact, invite everyone you know. Jitsi Meet is a fully encrypted, 100% open source video conferencing solution that you can use all day, every day, for free — with no account needed.

Start a new meeting

IdeologicalIncomesWelcomeObviously

GO

Your recent list is currently empty. Chat with your team and you will find all your recent meetings here.

最後完成範例參考 https://hi.tres.ntpc.edu.tw

jitsi.org

新北市泰山區同榮國小視訊會議系統

歡迎各位，一起使用視訊通話。本系統採用 Jitsi Meet 來架設，它是將對話完全加密的視訊會議解決方案。您無需註冊帳號即可使用，且不分日夜為您免費服務。

啟動新的會議
OutstandingFeministsShoutBeautifully

開始

4月 9日, 2020 09:50	mingkult 00:34
4月 8日, 2020 18:26	aaa 08:05
4月 8日, 2020 15:56	張玩穎 56:15

以下文件提供您進一步設定時參考，簡述如下：

- 中文使用者界面的修改（如果要給小朋友用的，建議修改，後續他們操作上會更簡單直覺）

  - /etc/jitsi/meet/myserver-config.js

  - 第 267 行 en 改 zhTW

  - 移除 //

- 首頁中文標題更改（一般來說，改學校名稱即可）

  - /usr/share/jitsi-meet/lang/main-zhTW.json

  - 請注意 chown root.root 及 chmod 644

- To reload the systemd changes on a running system

  - systemctl daemon-reload

  - service jitsi-videobridge2 restart.

- Debugging problems

  - /var/log/jitsi/jvb.log

  - /var/log/jitsi/jicofo.log

  - /var/log/prosody/prosody.log

1090424 陽明大學陳育群教授提供其版本供大家使用，非常感謝陳教授無私的奉獻，

參考文件

https://news.ltn.com.tw/news/life/breakingnews/3144072

https://github.com/Yuchunchen/BuildYourOwnConferenceSystem

https://github.com/Yuchunchen/BuildYourOwnConferenceSystem/

blob/master/docs/install_jitsi_google.md

相關進階版本安裝流程如下：

■ 建議您下載這個文件《連結》後，再將那個網頁文件上的紅色文字部份依序複製及貼上處理！

登入 ubuntu server 之後，執行 sudo su –

接下來執行以下指令

#apt update

#apt upgrade 回答 Y

#apt-get update

#apt-get install sshfs

#apt-get -y install linux-image-generic

#update-grub

#nano /etc/default/grub

修改 GRUB_DEFAULT='1>2'

#sync;sync;sync;reboot

重新開機後，請再次登入，並再次 sudo su -

#wget https://raw.githubusercontent.com/switnet-ltd/quick-jibri-installer/master/jigasi.sh

#wget https://raw.githubusercontent.com/switnet-ltd/quick-jibri-installer/master/jitsi-updater.sh

#wget https://raw.githubusercontent.com/switnet-ltd/quick-jibri-installer/master/jm-bm.sh

#wget https://raw.githubusercontent.com/switnet-ltd/quick-jibri-installer/master/jra_nextcloud.sh

#wget https://raw.githubusercontent.com/switnet-ltd/quick-jibri-installer/master/quick_jibri_installer.sh

#chmod +x jigasi.sh

#chmod +x jitsi-updater.sh

#chmod +x jm-bm.sh

#chmod +x jra_nextcloud.sh

#chmod +x quick_jibri_installer.sh

#/root/quick_jibri_installer.sh

修改 GRUB_DEFAULT='1>2'

經過一小段時間下載安裝，在過程中會看到以下畫面

請輸入伺服器主機名稱 hostname，再按 enter

範例：hi.tres.ntpc.edu.tw

接下來是 SSL 加密設定，請選取 Generate a new self…………

再按 enter

接著進行以下設定:紫色文字為參考答案

1. Please set your language (Press enter to default to 'en')

zhTW (選擇中文為預設語系)

2. Set sysadmin email 管理者電子郵件

例：mingkult@gmail.com

2. Do you want to drop support for unsecure protocols TLSv1.0/1.1 now: (yes or no)，是否要停止支援不安全的 http 協定?

   yes 後續系統僅能透過 https 加密連線比較安全

4. Do you want to setup LetsEncrypt with your domain: (yes or no) 是否需要 SSL 加密？

   yes

5. Do you want to setup the Dropbox feature now: (yes or no)是否需要「錄影上傳 dropbox」功能？

   no 防止未經允許側錄會議

6. Do you want to install customized "brandless mode"?: (yes or no) 是否將 Jitsi logo 刪除？

   no 建議保留 jitsi logo

7. Do you want to translate 'Participant' to your own language? Leave empty to use the default one (English): 請將'Participant'翻譯成您的語言

   直接按 enter 保留預設值

8. Do you want to translate 'me' to your own language? 將 me 翻譯成您的語言

9. Do you want to disable the Welcome page: (yes or no)　是否關閉系統預設之首頁?

no 我們將使用預設的首頁

10. Do you want to enable static avatar?: (yes or no)　是否使用固定大頭貼?

yes

11. Do you want to enable local audio recording option?: (yes or no)　是否開放與會者自行側錄?

no 不允許側錄會議

12. Do you want to enable secure rooms?: (yes or no)　是否開啟會議室帳號密碼管控?

yes

13. Set username for secure room moderator:　設定管理者帳號 請自行設定

例：master

14. Secure room moderator password:　管理者密碼 請自行設定

例：22965881ok

15. Do you want to setup Jibri Records Access via Nextcloud:

(yes or no) 是否開放雲端側錄?

no 不允許側錄會議

16. Do you want to setup Jigasi Transcription: (yes or no) 是否開啟自動語音辨識功能?

no 因為需要額外付費,一般來說不需要這個功能

接著需再等候一下,系統安裝完成後會進行自動重新開機程序待開機完成後,請各位使用 Chrome or firefox 瀏覽器瀏覽這部伺服器網址(不可使用 ie 瀏覽器)

其他補充事項及其他重要系統設定檔案：

log　　/var/log/jitsi/jvb.log

log　　/var/log/jitsi/jicofo.log

log　　/var/log/prosody/prosody.log

JITSI 設定檔 /etc/jitsi/meet/myserver-config.js

JITSI 介面設定檔 /usr/share/jitsi-meet/interface_config.js

nginx 設定　/etc/nginx/sites-available/myserver.conf

重新啟動 sudo systemctl restart nginx.service && sudo nano /etc/jitsi/meet/myserver-config.js

Web Server Entry　/usr/share/jitsi-meet/ Jitsi meet home page

靜態大頭貼　/usr/share/jitsi-meet/images/avatar2.png

JIBRI 錄影檔　　/var/jbrecord

JIBRI 錄影上傳　/home/jibri/finalize_recording.sh