

安裝Alpine作業系統

Alpine Linux

特色：

Alpine Linux是一個由社群開發的基於musl和BusyBox的Linux作業系統。
最主要特色小且輕便。

下載：

<https://alpinelinux.org/downloads/>

製作開機隨身碟

參考

登入Alpine

Alpine 開機後，預設的登入帳號為 root ，而且沒有密碼。

```
* Mounting /dev/mqueue ... [ ok ]
* Mounting modloop ...
* Verifying modloop [ ok ]
* Mounting security filesystem ... [ ok ]
* Mounting debug filesystem ... [ ok ]
* Mounting persistent storage (pstore) filesystem ... [ ok ]
* Starting busybox mdev ... [ ok ]
* Loading hardware drivers ... [ ok ]
* Loading modules ... [ ok ]
* Setting system clock using the hardware clock [UTC] ... [ ok ]
* Checking local filesystems ... [ ok ]
* Remounting filesystems ... [ ok ]
* Mounting local filesystems ... [ ok ]
* Configuring kernel parameters ... [ ok ]
* Migrating /var/lock to /run/lock ... [ ok ]
* Creating user login records ... [ ok ]
* Wiping /tmp directory ... [ ok ]
* Setting hostname ... [ ok ]
* Starting busybox syslog ... [ ok ]
* Starting firstboot ... [ ok ]

Welcome to Alpine Linux 3.12
Kernel 5.4.72-0-lts on an x86_64 (/dev/tty1)

localhost login: _
```


安裝系統

```
Welcome to Alpine Linux 3.12
Kernel 5.4.43-1-lts on an x86_64 (/dev/tty1)

localhost login: root
Welcome to Alpine!

The Alpine Wiki contains a large amount of how-to guides and general
information about administrating Alpine systems.
See <http://wiki.alpinelinux.org/>.

You can setup the system with the command: setup-alpine

You may change this message by editing /etc/motd.

localhost:~# setup-alpine_
```

使用 Alpine 預設命令來安裝系統。

輸入：setup-alpine

[注意]

- 安裝過程使用問答方式，若回答想要反悔，只能透過 Ctrl + C 重來。

設定鍵盤

```
Available keyboard layouts:
af      be      cn      fi      hu      it      lk      mm      pl      sy      uz
al      bg      cz      fo      id      jp      lt      mt      pt      th      vn
am      br      de      fr      ie      ke      lv      my      ro      tj
ara     brai     dk      gb      il      kg      ma      ng      rs      tm
at      by      dz      ge      in      kr      md      nl      ru      tr
az      ca      ee      gh      iq      kz      me      no      se      tw
ba      ch      epo     gr      ir      la      mk      ph      si      ua
bd      cm      es      hr      is      latam  ml      pk      sk      us
Select keyboard layout [none]: tw
Available variants: tw-indigenous tw-saisiyat tw
Select variant []: tw
* Caching service dependencies ... [ ok ]
* Setting keymap ... [ ok ]
```

輸入1： tw

輸入2： tw

tw 表示 taiwan 。

設定電腦名稱

```
Enter system hostname (short form, e.g. 'foo') [localhost]:
```

輸入： wka5501

設定網路卡

```
Available interfaces are: eth0.  
Enter '?' for help on bridges, bonding and vlans.  
Which one do you want to initialize? (or '?' or 'done') [eth0]  
Ip address for eth0? (or 'dhcp', 'none', '?') [dhcp]  
Do you want to do any manual network configuration? [no]  
udhcpc: started, v1.31.1  
udhcpc: sending discover  
udhcpc: sending select for 172.16.48.129  
udhcpc: lease of 172.16.48.129 obtained, lease time 1800
```

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設定 root 密碼

```
Changing password for root
New password:
Bad password: too short
Retype password:
passwd: password for root changed by root
```

輸入1： root

輸入2： root

設定時區

```
Which timezone are you in? ('?' for list) [UTC] Asia
What sub-timezone of 'Asia' are you in? ('?' for list) Taipei
* Starting busybox acpid ... [ ok ]
* Starting busybox crond ... [ ok ]
```

輸入1： Asia

輸入2： Taipei

設定 proxy 與 ntp

```
HTTP/FTP proxy URL? (e.g. 'http://proxy:8080', or 'none') [none]  
Which NTP client to run? ('busybox', 'openntpd', 'chrony' or 'none') [chrony]  
* service chronyd added to runlevel default  
* Caching service dependencies ... [ ok ]  
* Starting chronyd ... [ ok ]
```

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設定 alpine repository 與 ssh server

```
40) ftp.icm.edu.pl
41) mirror.ungleich.ch
42) alpine.mirror.vexxhost.ca
43) sjc.edge.kernel.org
44) ewr.edge.kernel.org
45) ams.edge.kernel.org
46) download.nus.edu.sg
47) alpine.yourlabs.org
48) mirror.pit.teraswitch.com
49) mirror.reenigne.net

r) Add random from the above list
f) Detect and add fastest mirror from above list
e) Edit /etc/apk/repositories with text editor

Enter mirror number (1-49) or URL to add (or r/f/e/done) [1]: 37
Added mirror mirror.math.princeton.edu
Updating repository indexes... done.
Which SSH server? ('openssh', 'dropbear' or 'none') [openssh]
* service sshd added to runlevel default
ssh-keygen: generating new host keys: RSA DSA ECDSA ED25519
* Starting sshd ... [ ok ]
```

[注意] 若網路沒有通， repository 會找不到

輸入1： 6. (前面 1~8 為 Alpine 官網提供下載點)

輸入2： 使用預設 enter鍵

安裝 alpine 到硬碟中

```
Available disks are:
  sda   (21.5 GB VMware,  VMware Virtual S)
Which disk(s) would you like to use? (or '?' for help or 'none') [none] sda
The following disk is selected:
  sda   (21.5 GB VMware,  VMware Virtual S)
How would you like to use it? ('sys', 'data', 'lvm' or '?' for help) [?] sys
WARNING: The following disk(s) will be erased:
  sda   (21.5 GB VMware,  VMware Virtual S)
WARNING: Erase the above disk(s) and continue? [y/N]: y
Creating file systems...
Installing system on /dev/sda3:
/mnt/boot is device /dev/sda1
100% #####
=> initramfs: creating /boot/initramfs-lts
/boot is device /dev/sda1

Installation is complete. Please reboot.
```

查看上一行 disk 有哪些？ 選擇要安裝的硬碟。

輸入1： sda

輸入2： sys

輸入3： y (此問確認安裝？)

重新開機

```
Installation is complete. Please reboot.  
test:~# reboot
```

安裝至硬碟後須重新開機，並退出 iso .

輸入：reboot