

在 Linux 上使用 docker 和工作排程

- 安裝 Linux 作業系統 (Ubuntu 版本) 並透過其 Software 管理程式安裝 docker
 - 下載 iso 檔案後，製成開機片，開機後安裝到 usb 隨身碟 (<https://www.ubuntu-tw.org/>)
- 手動下載相關的 docker image 並建立 container
 - `docker pull joyzoursky/python-chromedriver:3.8-selenium`
 - `docker run -d -it --name windy_powerplants -v /home/pydoc/python3_scripts/windy_powerplants:/root ff9200da8099 bash`
- 在終端機下測試並合併成單一的指令 (Bash 格式)
- 使用 cron 完成工作排程
 - 執行 `crontab -e` 編輯檔案，完成存檔後會被系統自動納入排程

Ubuntu 行為規範 (第二版)

下載 Ubuntu

發行版

- Ubuntu 桌面版本
 Ubuntu 伺服器版本

不同發行版具備不同的圖形環境與配套軟體。如果您不知道如何選擇，請選擇 Ubuntu 桌面版本。

版本

- 20.10 (半年支援)
 20.04 LTS (5 年支援)
 18.04 LTS (5 年支援)
 16.04 LTS (5 年支援)

20.04 LTS (2020/04 - 2025/04) 為最新 LTS 版 (長期支援, 穩定, 五年支援)。16.04 (及之前版本) 的預設桌面為經典 Unity, 18.04 開始為 Gnome 3, 但您仍可手動安裝 Unity 並進行切換。詳細資訊請參考 [Release End of Life](#)

電腦架構

- 32 位元版本
 64 位元版本

目前一般電腦大多使用 64 位元架構, 故從 18.04 開始, 桌面版也將不再提供 32 位元版本。另外, 目前在下載區無 Mac 版本可下載。

下載選項

- 下載 BitTorrent 種子

開始下載

或是 [至此瀏覽所有版本及檔案](#)

類似 windows 的操作界面

Q 輸入以搜尋



公用程式



文字編輯器



初始啟動程式



設定值



軟體更新



軟體與更新



電源統計



語言支援



檔案



額外驅動程式



IDLE



IDLE (using Pyt...



LibreOffice 7.0



LibreOffice 7.0 ...



LibreOffice 7.0 ...



LibreOffice 7.0 ...



LibreOffice 7.0 ...



LibreOffice 7.0 ...



LibreOffice 7.0 ...



Livepatch



PCManX BBS 連...



Ubuntu Software



VLC 媒體播放器



	Disks	Manage Drives and Media	移除 1.1 MB
	docker	Docker container runtime	移除 138.0 MB
	File Roller	開啟、編輯、製作壓縮過的封存檔	移除 1.8 MB
	LibreOffice	LibreOffice is a powerful office suite including word processing and creation of spreadsheets, slideshows and databases	移除 647.6 MB
	Logs	View detailed event logs for the system	移除 712.7 kB
	Power Statistics	Observe power management	移除 331.8 kB

透過 ubuntu software 圖形化界面安裝應用程式 (例如 docker)



Linux 作業系統下的 docker

**docker**
Docker container runtime ★★★★★ (67)

移除(R) Permissions

Build and run container images with Docker.

Usage

- This build can only access files in the home directory. So Dockerfiles and all other files used in commands like docker build, docker save and docker load need to be in \$HOME.
- You can change the configuration of this build by modifying the files in /var/snap/docker/current/.
- Additional certificates used by the Docker daemon to authenticate with registries need to be added in /var/snap/docker/common/etc/certs.d (instead of /etc/docker/certs.d).

Running Docker as normal user

By default, Docker is only accessible with root privileges (sudo). If you want to use docker as a regular user, you need to add your user to the docker group.

```
sudo addgroup --system docker
sudo adduser $USER docker
newgrp docker
sudo snap disable docker
sudo snap enable docker
```

Warning: if you add your user to the docker group, it will have similar power as the root user. For details on how this impacts security in your system, see <https://docs.docker.com/engine/security/#docker-daemon-attack-surface>

Authors

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細節

頻道	latest/stable
版本	19.03.13
更新	2021年02月12日
授權	自由授權
開發者	Canonical 
來源	snappcraft.io
安裝後大小	138.0 MB

docker 常用到的指令

```
pydoc@pydoc:~$ docker image list
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
kivy/buildozer      latest             13cc3085deb7       6 weeks ago        1.12GB
hello-world         latest             bf756fb1ae65       13 months ago      13.3kB
joyzoursky/python-chromedriver  3.8-selenium      ff9200da8099       14 months ago      1.42GB

pydoc@pydoc:~$ docker container list
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES
pydoc@pydoc:~$ docker container ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES
ee59deb8f7c1       13cc3085deb7       "buildozer android d..." 5 days ago         Exited (0) 5 days ago           test2
37bd5b6762fb       13cc3085deb7       "buildozer init"          5 days ago         Exited (0) 5 days ago           test
29be538af3ff       ff9200da8099       "bash"                  6 days ago         Exited (0) 3 minutes ago         windy_powerplants
e19dec305982       hello-world        "/hello"               6 days ago         Exited (0) 6 days ago           affectionate_feynman

pydoc@pydoc:~$ cat ~/bash_scripts/windy_powerplants.sh
/snap/bin/docker container start windy_powerplants
/snap/bin/docker container exec windy_powerplants sh -c "cd /root ; python3 windy_chrome_PowerPlants_docker.py ; exit"
/snap/bin/docker container stop windy_powerplants

pydoc@pydoc:~$
```

crontab guru

The quick and simple editor for cron schedule expressions by [Cronitor](#)

“At minute 0 past every hour.”

next at 2021-02-18 15:00:00

[random](#)

0 * /1 * * *

minute

hour

day
(month)

month

day
(week)

- * any value
- , value list separator
- range of values
- / step values