WSL2 Ubuntu docker to replace docker desktop

il !! windowdocker desktop window window WSL docker

- 1. WSL2 Windos10
 - WSL Windows 10 2004

Windows 規格

版本 Windows 10 專業版

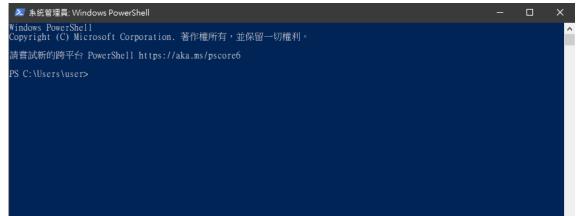
版本 21H2

安裝於 2021-03-09 OS 組建 19044.1526

體驗 Windows Feature Experience Pack

120.2212.4170.0

- 2. WSL Windows
 - a. WindowsWSL
 - b. PowerShell



- c. wsl --install wsl
- d. WSL
 - i. dism.exe /online /enable-feature /featurename:Microsoft-Windows-Subsystem-Linux /all /norestart

PS C:\Users\user> dism.exe /online /enable-feature /featurename:Microsoft-Windows-Subsystem-Linux /all /norestart 部署映像服務與管理工具版本: 10.0.19041.844
映像版本: 10.0.19044.1526
飯用功能

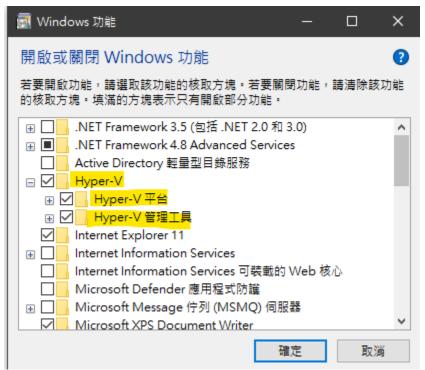
- e. Linux
 - $i.\ dism. exe \ / online \ / enable-feature \ / feature name: Virtual Machine Platform \ / all \ / no restart$
 - PS C:\Users\user> dism.exe /online /enable-feature /featurename:VirtualMachinePlatform /all /norestart

 部署映像服務與管理工具
 版本: 10.0.19041.844

 映像版本: 10.0.19044.1526

 飲用功能
 [
 操作順利完成。
- f. Windows Hyper-V





h. WSL2 linux kernel : WSL2 Linux (x64)

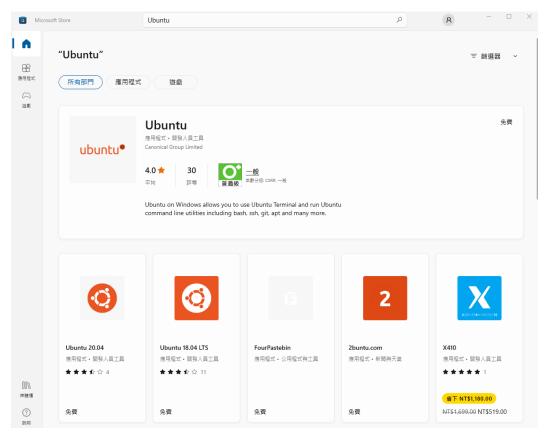
i. PowerShell WSL WSL2

i. wsl --set-default-version 2

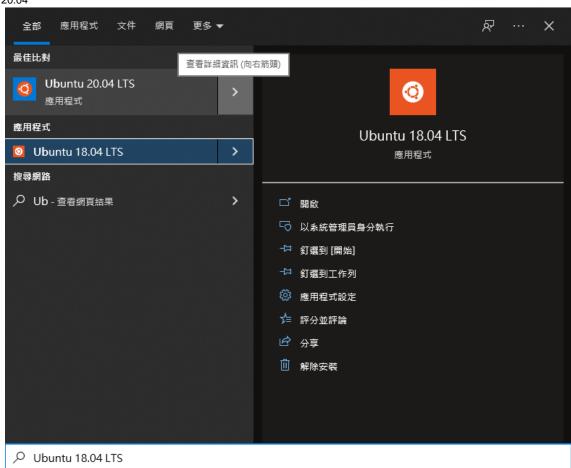
j. microsoft store

i. Ubuntu 20.04

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k. Ubuntu 20.04



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I. :ls /mnt/ CD

The list of available updates is more than a week old. To check for new updates run: sudo apt update

his message is shown once a day. To disable it please create the home/moin/.hushlogin file. pin@FA00158:~\$

This message is shown once a day. To disable it please create the /home/moin/.hushlogin file. moin@FA00158:~\$ ls /mnt/ wsl moin@FA00158:~\$

m. PowerShell:wsl -l -v

- VERSION1, wsl -set-version Ubuntu-20.04 2 VERSION2. /bin/bash: -set-version: command not found, wsl .exe --set-version Ubuntu 2
- 3. Ubuntu docker docker-compose
 - a. Ubunturoot: sudo -i

```
root@FA00158: ~
        FA00158:~$ ls /mnt/
 ojp@PAOD158:~$ sudo -i
sudo] password for moin:
elcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.10.16.3-microsoft-standard-WSL2 x86_64)
 * Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage
   System information as of Tue Feb 22 14:00:52 CST 2022
   System load: 0.0
Usage of /: 0.5% of 250.98GB
                                                        Users logged in: 0
IPv4 address for eth0: 172.26.11.87
  Memory usage: 0%
Swap usage: 0%
 lupdate can be applied immediately.
To see these additional updates run: apt list --upgradable
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
 This message is shown once a day. To disable it please create the
/root/.hushlogin file.
root@FA00158:~#
```

b. docker:

i. apt-get update

```
t update
roote#A00158:\(\sigma \) apt-get update
get:\(\) http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Hit:\(\) http://archive.ubuntu.com/ubuntu focal InRelease
get:\(\) http://archive.ubuntu.com/ubuntu focal-security/main and64 Packages [1263 kB]
get:\(\) http://archive.ubuntu.com/ubuntu focal-security/main and64 Packages [1263 kB]
get:\(\) http://archive.ubuntu.com/ubuntu focal-security/main and64 Packages [8628 kB]
get:\(\) http://security.ubuntu.com/ubuntu focal-security/main Tanslation-en [22] kB]
get:\(\) http://security.ubuntu.com/ubuntu focal-security/main and64 c-n.f Metadata [956 B]
get:\(\) http://security.ubuntu.com/ubuntu focal-security/restricted and64 Packages [764 kB]
get:\(\) http://security.ubuntu.com/ubuntu focal-security/restricted and64 c-n.f Metadata [956 B]
get:\(\) http://security.ubuntu.com/ubuntu focal-security/restricted and64 c-n.f Metadata [950 kB]
get:\(\) http://security.ubuntu.com/ubuntu focal-security/universe and64 Packages [767 kB]
get:\(\) http://security.ubuntu.com/ubuntu focal-security/universe and64 packages [768 kB]
get:\(\) http://security.ubuntu.com/ubuntu focal-security/universe and64 c-n.f Metadata [150 kB]
get:\(\) http://security.ubuntu.com/ubuntu focal-security/universe and64 c-n.f Metadata [250 kB]
get:\(\) http://security.ubuntu.com/ubuntu focal-security/universe and64 c-n.f Metadata [250 kB]
get:\(\) http://security.ubuntu.com/ubuntu focal-updates/universe and64 c-n.f
```

ii. apt-get install -y curl

```
root@FA00158:-# apt-get install -y curl
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
    libcurl4
The following packages will be upgraded:
    curl libcurl4
2 upgraded, 0 newly installed, 0 to remove and 124 not upgraded.
Need to get 396 kB of archives.
After this operation, 2048 B of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 curl amd64 7.68.0-lubuntu2.7 [161 kB]
Get:2 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libcurl4 amd64 7.68.0-lubuntu2.7 [234 kB]
Fetched 396 kB in 2s (187 kB/s)
(Reading database ... 32223 files and directories currently installed.)
Preparing to unpack .../curl_7.68.0-lubuntu2.7_amd64.deb ...
Unpacking curl (7.68.0-lubuntu2.7) over (7.68.0-lubuntu2.6) ...
Preparing to unpack .../libcurl4_7.68.0-lubuntu2.7_amd64.deb ...
Unpacking libcurl4:amd64 (7.68.0-lubuntu2.7) over (7.68.0-lubuntu2.6) ...
Setting up libcurl4:amd64 (7.68.0-lubuntu2.7) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
Curl
                                            • curl
iii. curl -s https://get.docker.com | sudo sh
                                                                           gene titte, mar og viderfatli
mittet tydte, eg viderfatli
mitet tydte eg viderfatli
mitet tydte eg viderfatlige e
                                                                    un the Docker daemon as a fully privileged service, but granting non-roos access, refer to https://docs.docker.com/go/daemon-access/
iv. docker
                                                       docker : docker version
                                                                                                     docker version
cott@HA00158:# docker version
lient: Docker Engine - Community
Version: 20.10.12
API version: 1.41
Go version: gol.16.12
Git commit: e91ed57
Built: Mon Dec 13 11:45:33 2021
OS/Arch: linux/and64
Context: default
Encarlmental: true
                                                       :service docker start
                                                                                                  ot@FA00158: ~
                                                                                                    moin@FA00158:~$ sudo –i
[sudo] password for moin:
root@FA00158:~# service docker start
* Starting Docker: docker
                                                        :service docker stop
                                                                                                 root@FA00158:~# service docker stop
* Stopping Docker: docker
                                                        :service docker restart
                                                                                                 root@FA00158:~# service docker restart
* Starting Docker: docker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        r ok 1
  v. docker
                                                                root@FA00158: ~
                                                            moin@FA00158:~$ sudo -i
[sudo] password for moin:
root@FA00158:~# service docker start
* Starting Docker: docker
vi. docker docker ps
                                                                root@FA00079:~# docker ps
                                                             CONTAINER ID IMAGE
                                                                                                                                                                                                                                                        COMMAND
                                                                                                                                                                                                                                                                                                                                  CREATED
                                                                                                                                                                                                                                                                                                                                                                                                           STATUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PORTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAMES
                                             · docker version docker

    docker Failed to connect to bus: Host is down https://blog.csdn.net/zhangyuhaifa/article/details

                                                                                               /119756642
```

c. docker-compose

i. apt install docker-compose -y

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https://www.awaimai.com/2587.html

```
coefficients of the compose continue of the compose coefficients of the coefficients o
```

- ii. :docker-compose version
 - rootsFA00158:# docker-compose version docker-compose version 1.25.0, build unknown docker-py version: 4.1.0 CPython version: 3.8.10 UnanSI version: 3.8.10

d. :

- i. build docker
 - host.docker.internal service

```
extra_hosts :
- "host.docker.internal:host-gateway"
```

 windows pathlinux path ex. C:\\work\\hybris_docker\\\hybris_docker\\\/mnt/c/work /hybris_docker/hybris_docker/

, window docker desktopdelete. .env volumn mountpathlinux docker WSL

Docker Desktop IDE IntelliJ IDEA Mimic Docker Desktop

- 1. https://cloud.tencent.com/developer/article/1884572
- 2. https://docs.microsoft.com/zh-tw/windows/wsl/install-manual

Ubuntu docker, RAM, WSL2memoryprocessors

C:\Users\<your username>\.wslconfig .wslconfig

```
[wsl2]
memory=8GB  # Limits VM memory in WSL 2 up to 8GB
processors=4  # Makes the WSL 2 VM use two virtual processors
```

```
, cmdwsl,
a. wsl
       wsl --shutdown
b. wsl
       wsl
c. (linux) memory8GB
       sudo top
         17:20:12 up 34 min, 0 u
91 total, 2 running,
                                   O users,
                                               load average: 1.18,
                                    g, 89 s100;
0.0 ni, 87.1 id, 0.0 wa,
0.76 0 free, 5278.0 used,
                                         89 sleeping,
                                                            O stopped,
                                                                             O zombie
                         6.8 sy,
                                                           0.0 wa, 0.0 hi, 4.9 si, 0.0 st
                                                                          2303.2 buff/cache
2356.7 avail Mem
                7957.3 total,
 MiB Mem :
                                    2048.0 free,
 MiB Swap:
                2048.0 total.
                                                           0.0 used.
d. 4
       cat /proc/cpuinfo | grep "^processor" | wc -l
```

root@FA00079:/mnt/c/Users/user# cat /proc/cpuinfo | grep "^processor" | wc -l

memory,

- 1. https://itnext.io/wsl2-tips-limit-cpu-memory-when-using-docker-c022535faf6f
- 2. https://www.ltsplus.com/linux/linux-list-cpu-number-cores-number