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Memasang Docker di Komputer Lokal (Localhost)

Workshop Docker Fundamental

Docker di Windows & Mac

https://www.docker.com/products/docker-desktop

> **Klik Download for Windows**

> **Get Docker**
  * **Windows 10 Professional/Enterprise 64bit.
    Selain Windows itu, download Docker Toolbox.**

  * **Berisi: docker community edition, docker-compose,
    kubernetes.**

Docker Desktop for Windows

Docker Desktop for Windows

By Docker

The fastest and easiest way to get started with Docker on Windows

Edition Windows x86-64

Get Docker Desktop for Windows

Docker Desktop for Windows is available for free.

Requires Microsoft Windows 10 Professional or Enterprise 64-bit. For previous versions get Docker Toolbox.

By downloading this, you agree to the terms of the Docker Software End User License Agreement and the Docker Data Processing Agreement (DPA).

◆ **Get Docker**

Install & Run

Install

Double-click `Docker for Windows Installer` to run the installer.

When the installation finishes, Docker starts automatically. The in the notification area

whale indicates that Docker is running, and accessible from a

terminal.

Run

Open a command-fine terminal like PowerShell, and try out some Docker commands!

Run `docker version` to check the version.

Run `docker run hello-world` to verify that Docker can `pull` and run images.

Enjoy

Docker is available in any terminal as long as the Docker Desktop for Windows apf is

running. Settings are available on the UI$_r$ accessible from the Docker whale in the taskbar.

Syarat Install Docker di Windows 1

- **Windows 10 64bit: Pro, Enterprise or Education (1607 Anniversary Update, Build 14393 or later).**

- **Others: install Docker Toolbox: https://docs.docker.com/toolbox/overview/**

- **Virtualization is enabled in BIOS. Typically, virtualization is enabled by default. This is different from having Hyper-V enabled. For more detail see Virtualization must be enabled in Troubleshooting.**

- **CPU SLAT-capable feature. Intel processors whose names start with 'i', e.g. i3, i5, i7, i9. AMD: setara intel.**
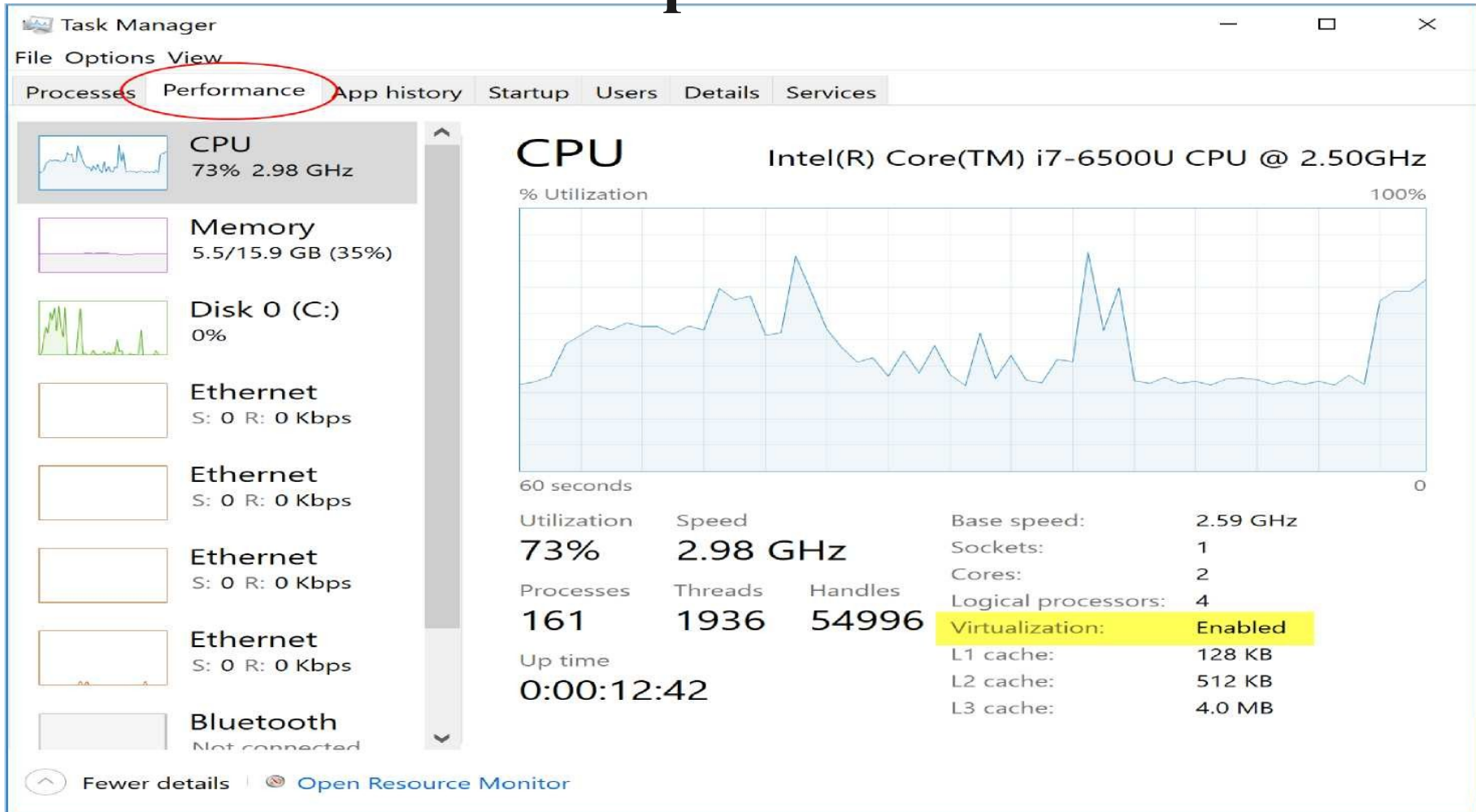
- **At least 4GB of RAM.**

Syarat Install Docker di Windows 2

- **Turn Windows features on or off > Hyper-V**
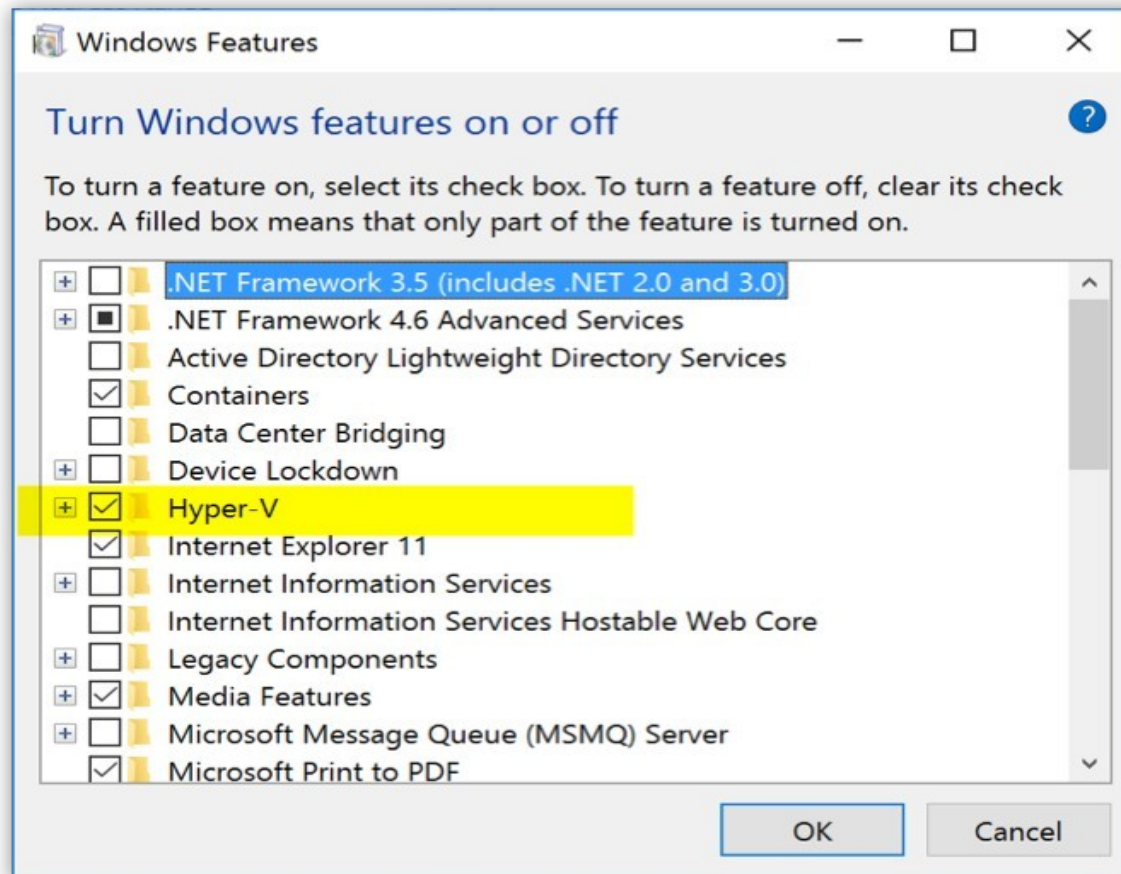
Syarat Install Docker di Windows 3

* Setelah reboot lihat apakah Virtualization enabled.

Install Docker di Linux Ubuntu

- Hyper-V enabled tidak dapat digunakan untuk menjalankan Virtualbox atau VMWare, sehingga harus dikembalikan ke tidak mendukung Hyper-V.

- Pasang mesin virtual (Virtualbox atau VMWare).

- Download Ubuntu Server 18.04.2 dalam bentuk virtual disk image (.VDI) untuk Virtualbox atau VMWare, file .7z di-ekstrak ke suatu folder.

- Jalankan Ubuntu di mesin virtual (New > Name > RAM > Use an existing virtual hard disk file).

- Install Docker di Ubuntu (guest dalam mesin virtual) seperti install Docker di Ubuntu host.

Install Docker di Linux Ubuntu Server

- Network di mesin virtual (misal Virtualbox) diaktifkan sebagai NAT sehingga terhubung ke internet yang diakses Windows, atau ubah ke bridge jika akan diakses dari luar.

- $ sudo install resolvconf

- *After installing resolvconf on your VM client, add your desired DNS server to the /etc/resolvconf/resolv.conf.d/head file. Place nameserver [your preferred dns server] at the bottom of the file (nameserver 8.8.8.8).*

- *After rebooting your VM client, you will see the content of the /etc/resolvconf/resolv.conf.d/head file in your /etc/resolv.conf file, which will take precedence of other settings.*

Install Docker di Linux Ubuntu (1)

1. Sebelum melakukan instalasi docker di Ubuntu, terlebih dahulu update (perbarui) indeks aplikasi dari repositori Ubuntu dengan perintah ini:

```
$ sudo apt update
```

2. Lakukan update CA certificates dengan perintah ini.

```
$ sudo apt install apt-transport-https
ca-certificates curl software-
properties-common
```

3. Tambahkan GPG key dengan perintah ini.

```
$ curl -fsSL

https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
```

4. Lakukan verifikasi fingerprint dengan perintah ini.

```
$ sudo apt-key fingerprint 0EBFCD88
```

Jika berhasil maka akan muncul output seperti berikut.

```
pub 4096R/0EBFCD88 2017-02-22

    Key fingerprint = 9DC8 5822 9FC7 DD38 854A E2D8 8D81
803C 0EBF CD88

uid Docker Release (CE deb) <docker@docker.com> sub

4096R/F273FCD8 2017-02-22
```

5. Tambahan repo docker untuk Ubuntu.

```
$ sudo add-apt-repository "deb
[arch=amd64]
https://download.docker.com/llnux/ubuntu
$(lsb_release -cs) stable"
```

Lakukan update kembali indeks repositori.

```
$ sudo apt update
```

6. Jika pernah install, hapus docker yang lama. $

```
sudo apt purge Ixc-docker
```

Jalankan perintah ini untuk menginstal docker.

```
$ sudo apt install docker-ce
```

Cek status service docker dengan perintah ini.

```
$ sudo systemctl status docker
```

7. Untuk menggunakan docker tanpa sudo:

I.   Buat docker group dengan perintah berikut.

```
$ sudo groupadd docker
```

II.   Kemudian tambahkan username Anda (misal "rus") ke group "docker" dengan perintah ini.

```
$ sudo usermod -aG docker rus
```

III.   Logout dan Login kembali.

8. Tes: Perintah "docker run" untuk mengunduh (pull), membuat dan menjalankan *container* dari image "hello-world".

```
$ docker run hello-world

Unable to find image 'hello-world:latest' locally latest: Pulling from
library/hello-world 1b930d010525: Pull complete Digest:
sha256:92695bc579f31df7a63da6922075d0666e565ceccad16b59c3374d2cf4
e8e50e


Status: Downloaded newer image for hello-world:latest Hello from

Docker!
This message shows that your installation appears to be working
correctly.
```

Selanjutnya ..

* **Mencari image di registry (docker search)**

* **Mengunduh image (docker pull)**

* **Membuat container dari image (docker create)**

* **Menjalankan container dari image (docker run)**

* **Melihat container yang sedang berjalan (docker ps)**

* **Melihat semua container (docker ps -a)**

* **Menghentikan container (docker stop)**

* **Menghapus container (docker rm)**

* **Melihat semua image (docker images)**

* **Menghapus image (docker rmi)**

* **Membuat image baru (docker build)**

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