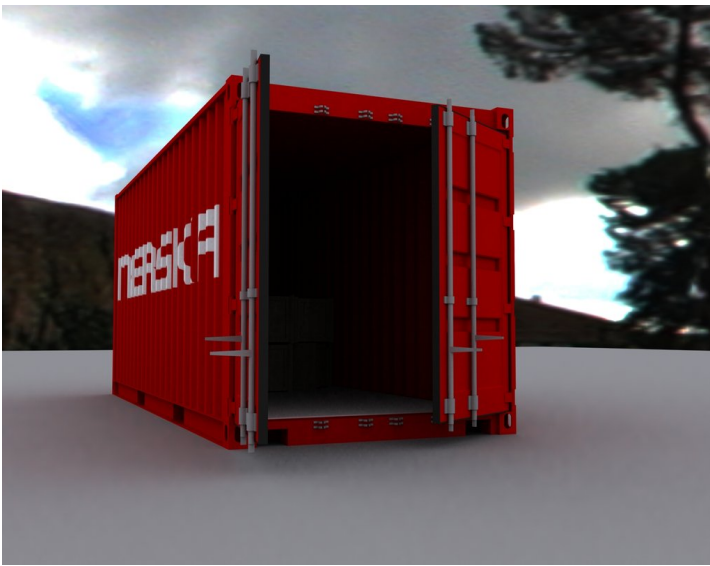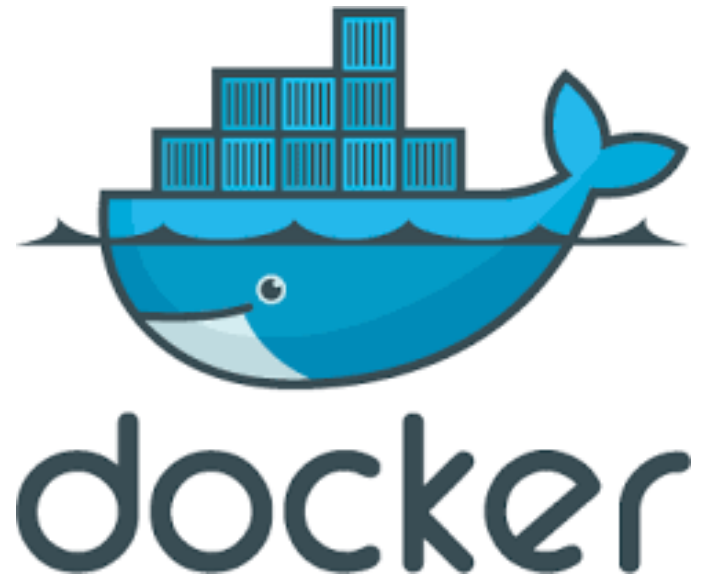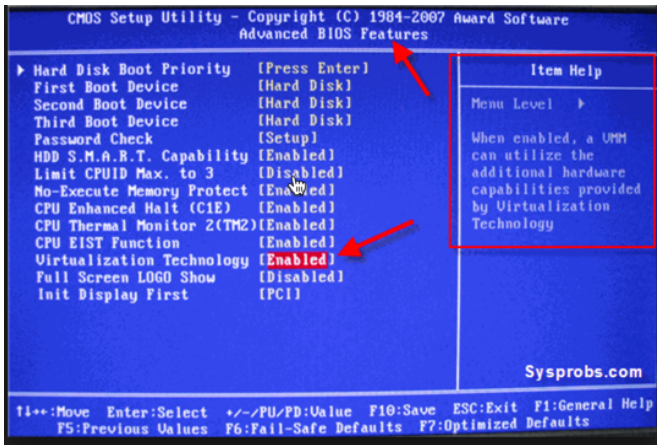# Manual

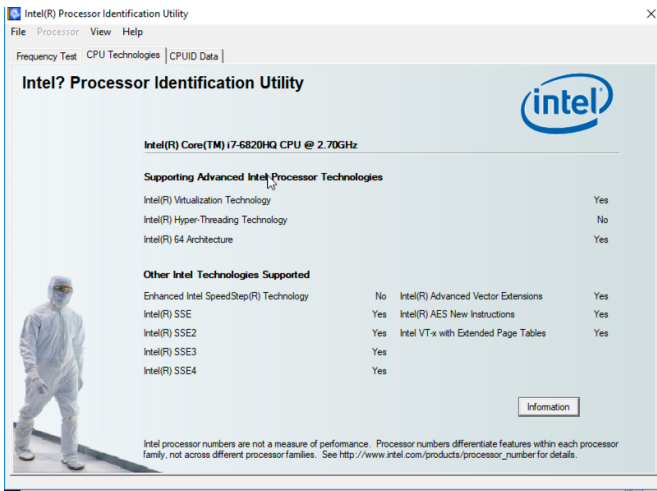# Install Docker Toolbox for Windows

Prerequisite

Enable Virtualization Technology (vt-x/AMD-v) on BIOS:

Normally virtualization technology should be enable by default.
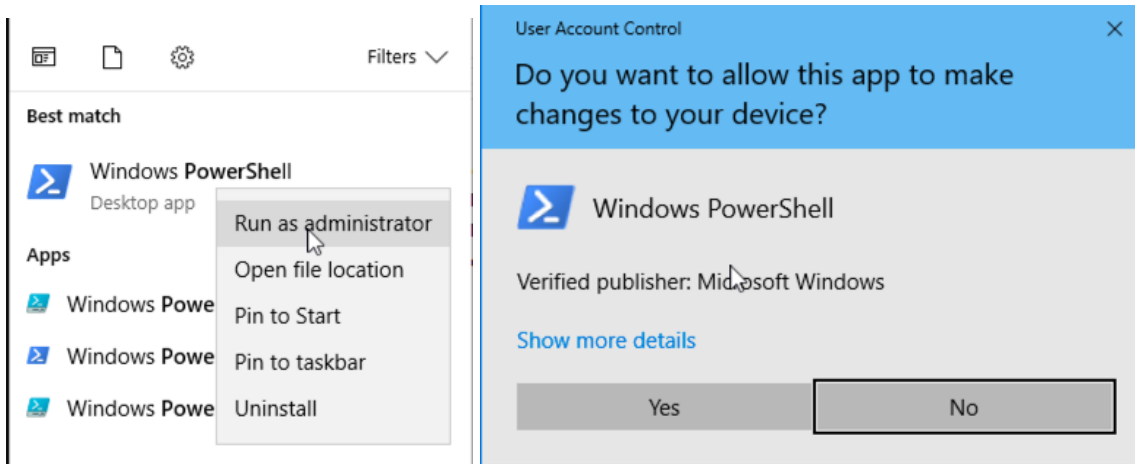

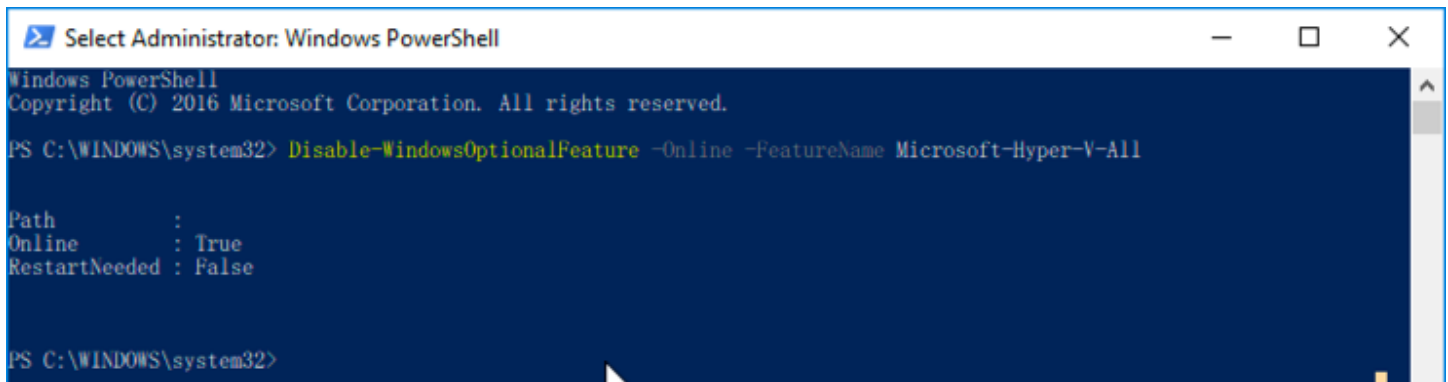## Checking Feature via Utility Tools
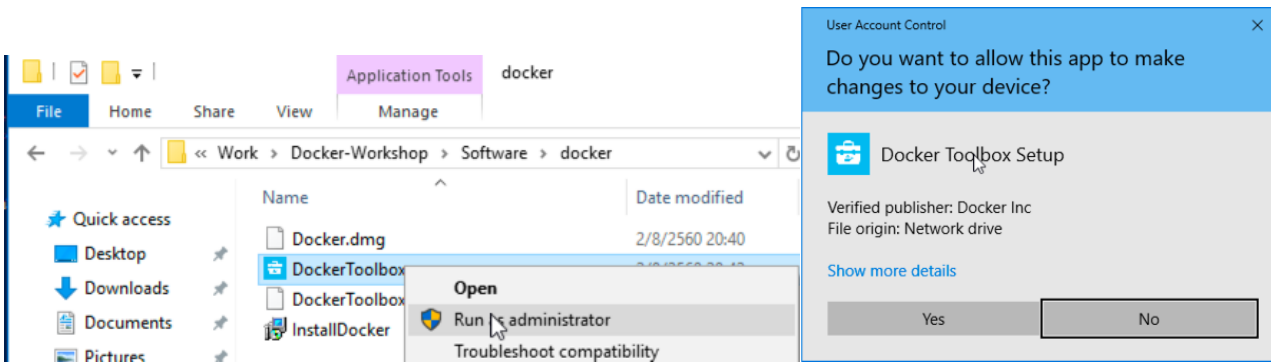
Install Docker Toolbox

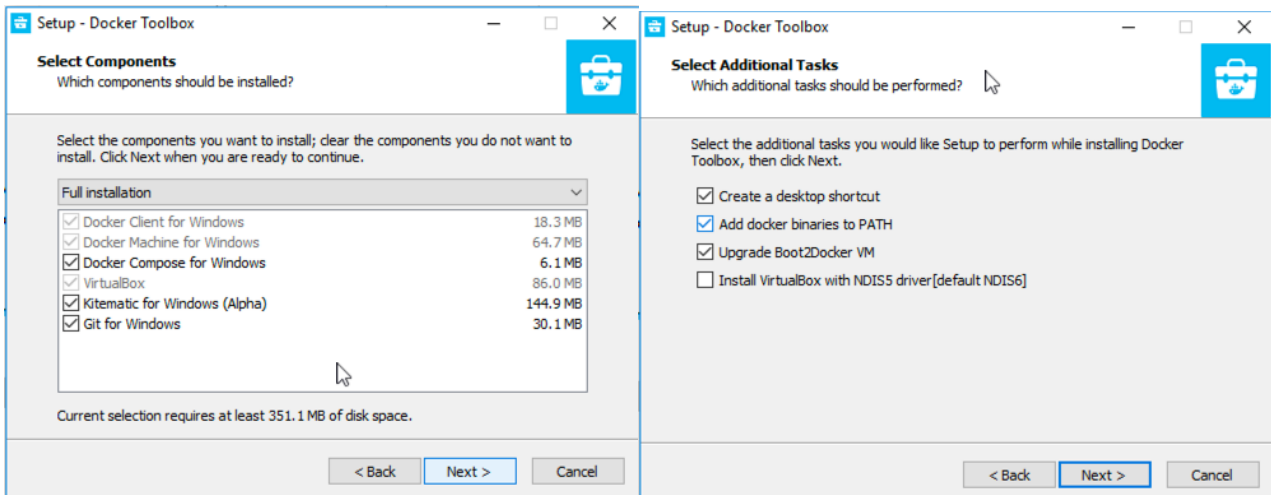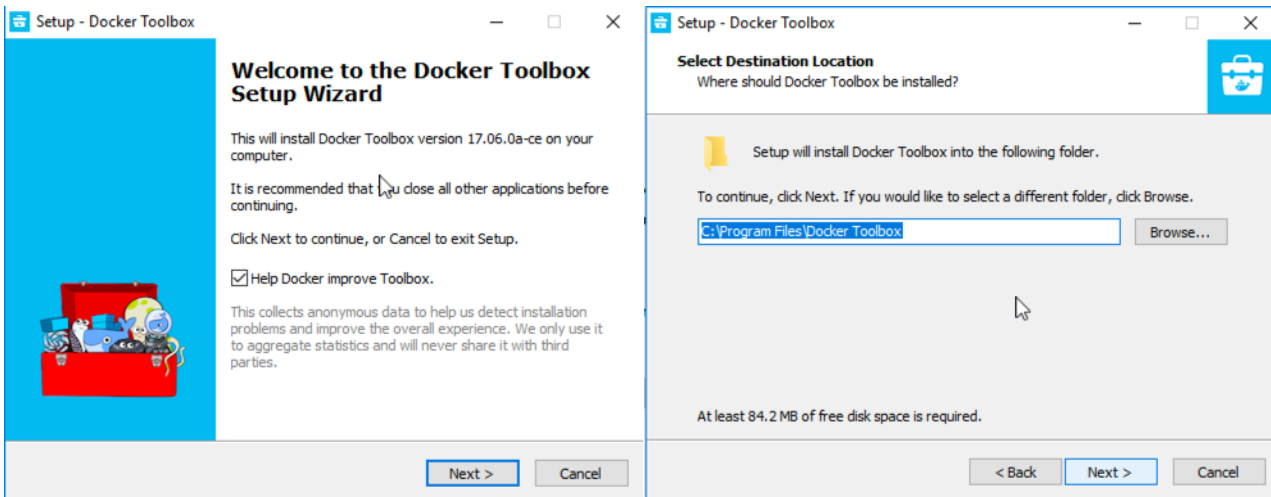1. Open PowerShell by "select windows powershell" and run as administrator

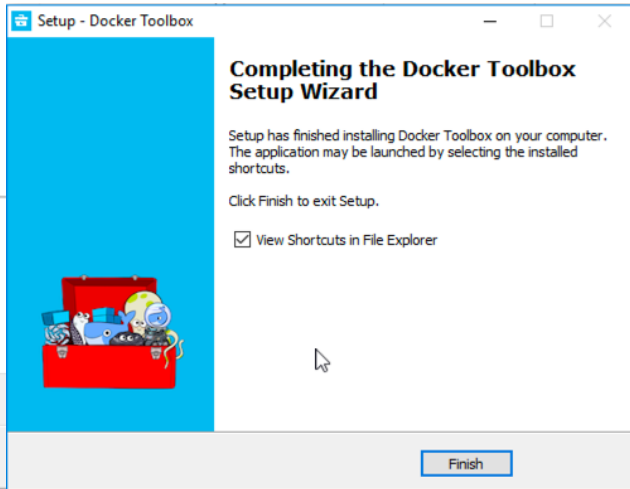2. Run command " Disable-WindowsOptionalFeature -Online -FeatureName Microsoft-Hyper-V-All"

3. Right Click and "Run as administrator" on "DockerToolbox" and confirm "yes" on user account control.

4. Following screen for setup

Setup - Docker Toolbox

Ready to Install
Setup is now ready to begin installing Docker Toolbox on your computer.

Click Install to continue with the installation, or click Back if you want to review or change any settings.

Destination location:
C:\Program Files\Docker Toolbox

Setup type:
Full installation

Selected components:
Docker Client for Windows
Docker Machine for Windows
Docker Compose for Windows
VirtualBox
Kitematic for Windows (Alpha)
Git for Windows

< Back   Install   Cancel

Setup - Docker Toolbox

Installing
Please wait while Setup installs Docker Toolbox on your computer.

Extracting files...
C:\Program Files\Docker Toolbox\docker-compose.exe

Cancel

Windows Security

Would you like to install this device software?

Name: Oracle Corporation Universal Serial Bus ...
Publisher: Oracle Corporation

☑ Always trust software from "Oracle Corporation".   Install   Don't Install

⚠ You should only install driver software from publishers you trust. How can I decide which device software is safe to install?

Setup - Docker Toolbox

Completing the Docker Toolbox Setup Wizard

Setup has finished installing Docker Toolbox on your computer. The application may be launched by selecting the installed shortcuts.

Click Finish to exit Setup.

☑ View Shortcuts in File Explorer

Finish

5. Open command prompt (Run as Administrator) and check version of docker by "docker version"

```
Administrator: Command Prompt                                    –   □   ×
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>docker version
Client:
 Version:      17.06.0-ce
 API version:  1.30
 Go version:   go1.8.3
 Git commit:   02c1d87
 Built:        Fri Jun 23 21:30:30 2017
 OS/Arch:      windows/amd64
error during connect: Get http://%2F%2F.%2Fpipe%2Fdocker_engine/v1.30/version: open //./pipe/docker_engine: The system c
annot find the file specified. In the default daemon configuration on Windows, the docker client must be run elevated to
 connect. This error may also indicate that the docker daemon is not running.

C:\WINDOWS\system32>
```

6. Create virtual machine for run as "Docker Server" by command:

docker-machine create --driver=virtualbox –virtualbox-memory "1024" labdocker

```
Administrator: Command Prompt - docker-machine create --driver=virtualbox -virtualbox-memory "1024" labdocker     –   □   ×

C:\WINDOWS\system32>docker-machine create --driver=virtualbox -virtualbox-memory "1024" labdocker
Creating CA: C:\Users\praparn\.docker\machine\certs\ca.pem
Creating client certificate: C:\Users\praparn\.docker\machine\certs\cert.pem
Running pre-create checks...
(labdocker) Image cache directory does not exist, creating it at C:\Users\praparn\.docker\machine\cache...
(labdocker) No default Boot2Docker ISO found locally, downloading the latest release...
(labdocker) Latest release for github.com/boot2docker/boot2docker is v17.06.0-ce
(labdocker) Downloading C:\Users\praparn\.docker\machine\cache\boot2docker.iso from https://github.com/boot2docker/boot2
docker/releases/download/v17.06.0-ce/boot2docker.iso...
(labdocker) 0%....10%....20%....30%....40%....50%....60%....70%....80%....90%....100%
```

```
Administrator: Command Prompt                                    –   □
(labdocker) 0%....10%....20%....30%....40%....50%....60%....70%....80%....90%....100%
Creating machine...
(labdocker) Copying C:\Users\praparn\.docker\machine\cache\boot2docker.iso to C:\Users\praparn\.docker\machine\machines
labdocker\boot2docker.iso...
(labdocker) Creating VirtualBox VM...
(labdocker) Creating SSH key...
(labdocker) Starting the VM...
(labdocker) Check network to re-create if needed...
(labdocker) Windows might ask for the permission to create a network adapter. Sometimes, such confirmation window is mi
imized in the taskbar.
(labdocker) Found a new host-only adapter: "VirtualBox Host-Only Ethernet Adapter #2"
(labdocker) Windows might ask for the permission to configure a network adapter. Sometimes, such confirmation window is
minimized in the taskbar.
(labdocker) Windows might ask for the permission to configure a dhcp server. Sometimes, such confirmation window is min
mized in the taskbar.
(labdocker) Waiting for an IP...
Waiting for machine to be running, this may take a few minutes...
Detecting operating system of created instance...
Waiting for SSH to be available...
Detecting the provisioner...
Provisioning with boot2docker...
Copying certs to the local machine directory...
Copying certs to the remote machine...
Setting Docker configuration on the remote daemon...
Checking connection to Docker...
Docker is up and running!
To see how to connect your Docker Client to the Docker Engine running on this virtual machine, run: docker-machine env
abdocker

C:\WINDOWS\system32>docker-mach
```

7. Check ip address of labdocker by command: docker-machine ls

```
C:\WINDOWS\system32>docker-machine ls
NAME         ACTIVE    DRIVER       STATE     URL                              SWARM    DOCKER       ERRORS
labdocker    -         virtualbox   Running   tcp://192.168.99.100:2376                 v17.06.0-ce
```

8. Putty to specific ip address with username/password like below
    a. Username: docker
    b. Password: tcuser

9. Test run first container by command: docker run hello-world

```
192.168.99.100 - PuTTY                                          —   □   ×

docker@labdocker:~$ docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
b04784fba78d: Pull complete
Digest: sha256:f3b3b28a45160805bb16542c9531888519430e9e6d6ffc09d72261b0d26ff74f
Status: Downloaded newer image for hello-world:latest

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

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
 $ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
 https://cloud.docker.com/

For more examples and ideas, visit:
 https://docs.docker.com/engine/userguide/

docker@labdocker:~$ C
```