

Narration&Reference How to install Docker in Ubuntu on WSL

Base File Name: NarrationReference_WSL_Ubuntu_Docker_ja_05_en

2018.10.31

How to install Docker in Ubuntu on WSL

by ***Shuichi Ohtsu***

Operating environment

In this video, I will show you how to install Docker in Ubuntu on *WSL(Subsystem for Linux)*.

Please note that this commentary depends heavily on posting on yanoshi's post at Qiita "Docker Engine seemed to be working on WSL" and tkyonezu's "Using Docker with WSL".

For details, refer to Reference of *Narration & Reference* file.

First of all, *Docker for Windows* needs to be installed on the system itself.

If you have not installed it please refer to another video and install it in advance.

First, right click on the Docker icon on the toolbar.

Please note that *Docker for Windows* has not started yet while the Docker icon is animating.

Make sure the icon is stationary and right click on it.

Then a popup menu will be displayed, so select *Settings* in it.

When the *Settings* window opens,

check *Expose daemon on tcp://localhost:2375 Tick without TLS*.

Ubuntu on WSL

Update Ubuntu

Next, open Ubuntu on the WSL.

First, type `sudo apt update` to get updated information.

Next, type `sudo apt upgrade` and update the system.

Install Docker

Next, install *Docker*

Type `sudo apt install docker.io`.

Next, type `sudo cgroupfs-mount`,

Type `sudo usermod -aG docker $USER`.

Next, change the *DOCKER_HOST* environment variable.

From the command prompt

Type `echo "export DOCKER_HOST='tcp://0.0.0.0:2375'" >> ~/.bashrc`

and Enter.

I will check with *text editor*

You can see that one line has been added to the bottom line.

Next, in order to make this setting effective,

type `source ~/.bashrc`

Next, start the service based on this setting.

Type `sudo service docker start`.

Next, for confirmation, type `docker version`.

Then the client is up but you can see that the server setting is wrong.

Open the `.bashrc` file and check it.

// was missing at *tcp*'s address.

Add this and save this file.

Try typing `docker version` again.

Information on the server was also displayed this time.

It is OK.

Run Docker

So let's download and run the classic *HELLO WORLD*.

Type `docker run hello-world`.

The download is completed, and *Hello from Docker* is displayed.

It is OK.

Installation of Docker on WSL has been completed.

It is OK.

Thank you for your watching.

Reference

- "Windows 10 Installation Guide",
<https://docs.microsoft.com/en-us/windows/wsl/install-win10>
- "Windows 10でLinuxプログラムを利用可能にするWSLをインストールする(バージョン1803以降対応版) [Install WSL to make Linux programs available on Windows 10 (version 1803 or later)]",
<http://www.atmarkit.co.jp/ait/articles/1608/08/news039.html>
- "Windows Subsystem for Linuxをインストールしてみよう！ [Let's install Windows Subsystem for Linux!]",
<https://qiita.com/Aruneko/items/c79810b0b015bebf30bb>
- "「Windows Subsystem for Linux(WSL)」セットアップガイド【スクリーンショットつき解説】 [Windows Subsystem for Linux (WSL) setup guide [Explanation with screenshot]]",
<https://linuxfan.info/wsl-setup-guide>
- "WSL + Ubuntu で Docker を使う [Use Docker with WSL + Ubuntu]",
<https://qiita.com/masinc000/items/d774c661b12ce239d441>
- "WSL上でDocker Engineが動くようになっていたっぽいという話 [A story that Docker Engine seemed to be working on WSL]",
<https://qiita.com/yanoshi/items/dcecbf117d9cbd14af87>
- "WSLでDockerを使う [Use Docker with WSL]",
<https://qiita.com/kyonezu/items/f89fe109ee764912bc8f>
- "docker is running natively on wsl",
https://www.reddit.com/r/bashonubuntuonwindows/comments/8cvr27/docker_is_running_natively_

- "WSL(Bash on Windows)でDockerを使用する[Use Docker with WSL (Bash on Windows)]",
<https://qiita.com/yoichiwo7/items/0b2aaa3a8c26ce8e87fe>
- "Angular 5, Angular 6 Custom Library: Step-by-step guide",
<https://www.udemy.com/angular5-custom-library-the-definitive-step-by-step-guide/>
- "Angular 5, Angular 6用 カスタムライブラリの作成: 完全ステップ・バイ・ステップ・ガイド",
<https://www.udemy.com/angular5-1/>