# Dockerfile

1. copy . . 🡸 1st dot for host and 2nd dot for docker root (by default) and can be changed with WORKDIR
2. Visual Code Editor, Plugin to write Dockerfile.
3. d

# Docker RUN : To Run a New Container

1. **docker run** 🡺 To create/run a container.

|  |  |  |
| --- | --- | --- |
| -d |  | To run in detached mode. By default, it is attached. |
| -i | --interactive | To run in interactive mode |
| -t | --tty | To allocate a pseudo-TTY |
| --rm |  | To remove a container automatically when it is stopped or exists. |
| --name |  | To name a container as by default a random name is given. |
| -p |  | To map host port to container port to expose containerized app to outside world. By default, it is not exposed to outside world. -p <host-port> : <container-port> |

* 1. **-d** 🡺 to run in detached mode.
  2. **-i** = --interactive
  3. -t = --tty 🡺 To allocate a pseudo-tty
  4. --rm 🡺 To remove a container automatically when it is stopped or exists.
  5. --name 🡺 To name a container

# Listing Containers

|  |  |  |
| --- | --- | --- |
| Docker ps : To list running containers but will not list stopped containers. | | |
| -a | -all | To list the stopped containers too. |

# Attached/Detached

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| --- | --- | --- |
| **Docker attach** **<container-id-or-name>**: To attach console to the STDIN/STDOUT of the containerized app. | | |
|  |  |  |

# Start/Stop

|  |  |  |
| --- | --- | --- |
| **Docker stop<container-id-or-name>**: To stop a running container. | | |
|  |  |  |
| **Docker start <container-id-or-name>**: To start a stopped container. | | |
| -a | --attach | To start in attached mode. By default, it is detached. Attaches STDOUT/STDERR and forward Signals |
|  |  |  |

# Remove Container/Images

|  |  |  |
| --- | --- | --- |
| **Docker stop<container-id-or-name>**: To stop a running container. | | |
|  |  |  |
| **Docker start <container-id-or-name>**: To start a stopped container. | | |
| -a | --attach | To start in attached mode. By default, it is detached. Attaches STDOUT/STDERR and forward Signals |
|  |  |  |