## Creating and Running a Container from an Image
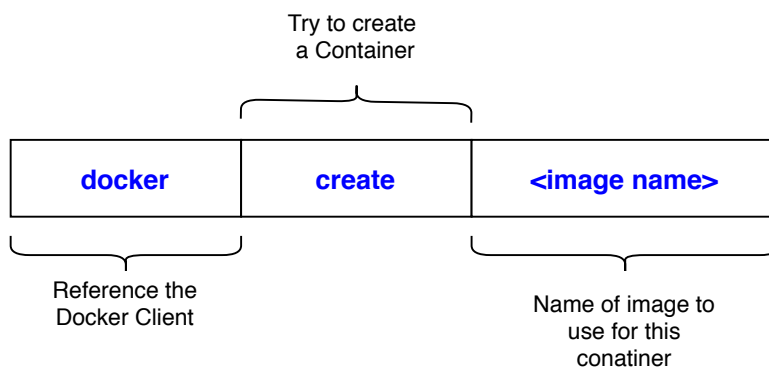
Try to create and run a Container
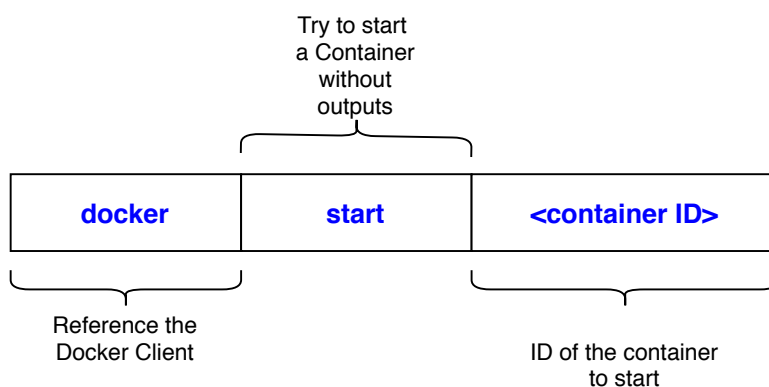
Option to run the process in the background

| docker | run | <-d> | <image name> |
|--------|-----|------|--------------|

Reference the Docker Client

Name of image to use for this conatiner

## List All containers

List all running containers

| docker | ps |
|--------|-----|

Reference the Docker Client
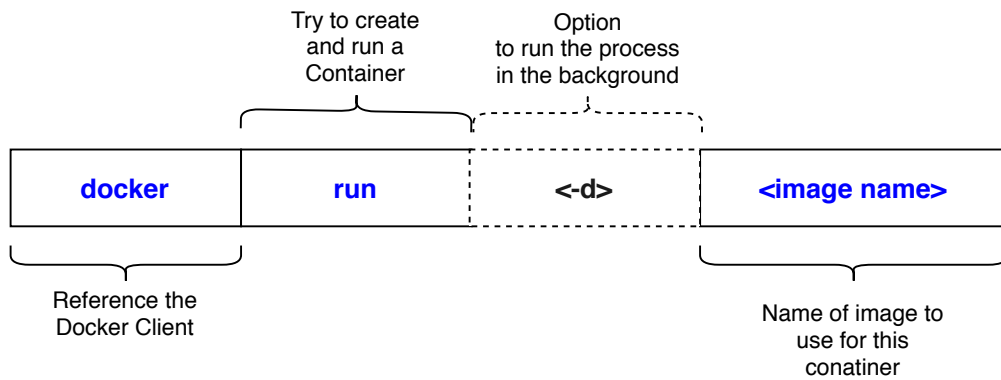
List all containers

| docker | ps | < -a or --all > |
|--------|-----|-----------------|
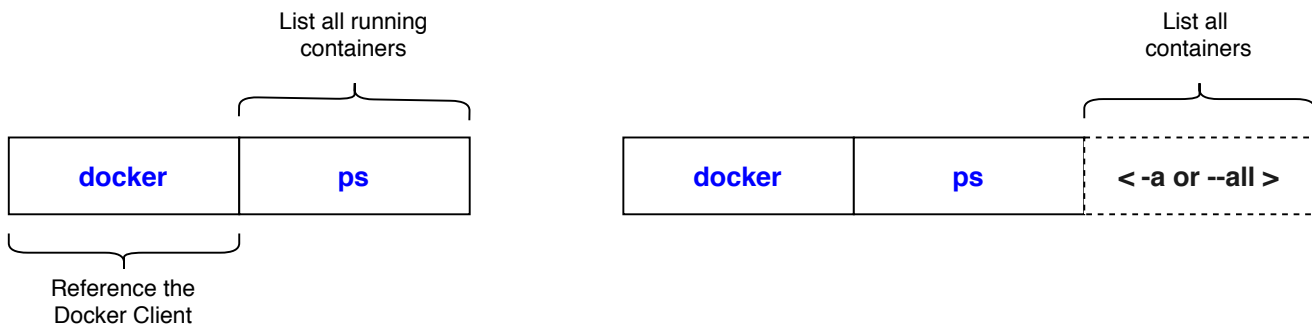
## Docker Run = Docker Create + Docker Start

Try to create a Container

**Create a Container**

| docker | create | <image name> |
|--------|--------|--------------|

Reference the Docker Client

Name of image to use for this conatiner

Try to start a Container without outputs

**Start a Container**

| docker | start | <container ID> |
|--------|-------|----------------|

Reference the Docker Client

ID of the container to start

| docker | strart | -a | <container ID> |
|--------|--------|-----|----------------|

Try to start a Container

(attcjed) watch for output from the container

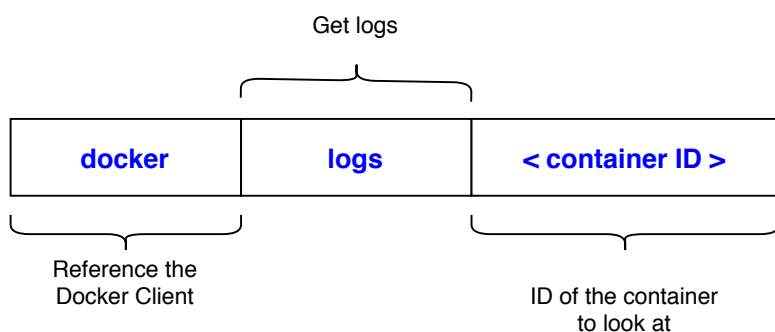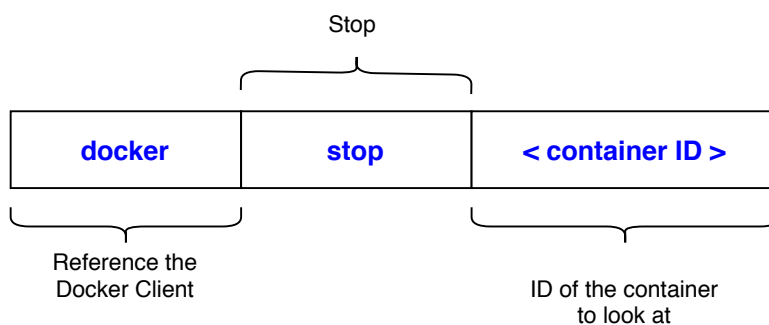Reference the Docker Client

ID of the container to start
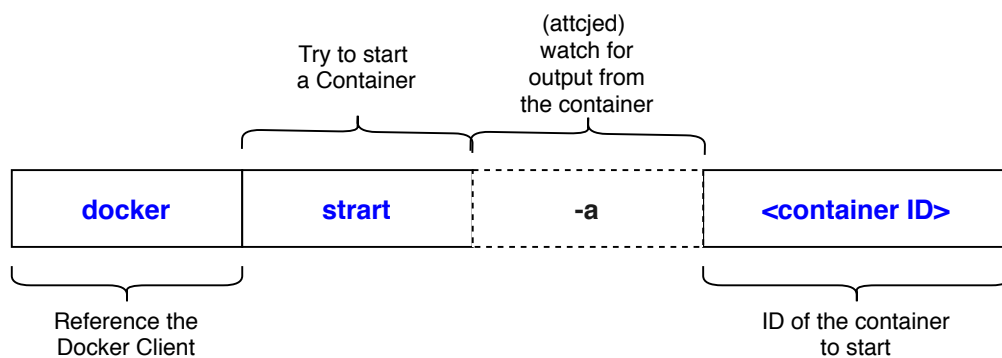
- cann't change the default command by the outside of the container
- delete all stopped containers : docker system prune
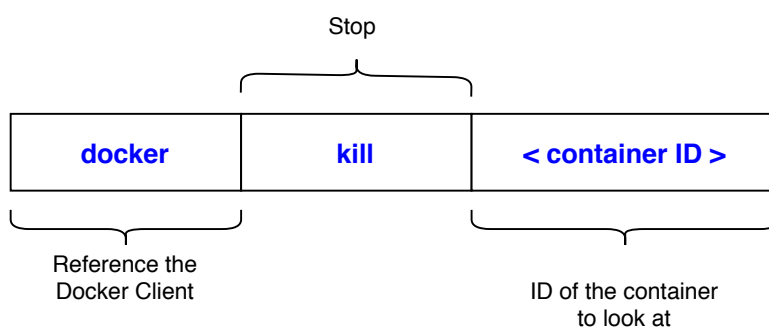
**Get logs form a container**

Get logs

| docker | logs | < container ID > |
|--------|------|------------------|

Reference the Docker Client

ID of the container to look at

- to get logs without restart a container.

**Stop a Container**

Stop

| docker | stop | < container ID > |
|--------|------|------------------|

Reference the Docker Client

ID of the container to look at

- SIGTERM : terminate signal message

**Kill a Container**

Stop

| docker | kill | < container ID > |
|--------|------|------------------|

Reference the Docker Client

ID of the container to look at

- SIGKILL : kill signal message

**Excute an additional command in a running container**

Run another Command

Allow us to provide input text to the container

| docker | exec | -it | < container ID > | command |
|--------|------|-----|------------------|---------|

Reference the Docker Client

ID of the container to look at

command to excute

**redis-cli**

| STDIN | STDOUT | STDERR |
|-------|--------|--------|

| Stuff you type | Stuff that shows up on the screen |
|----------------|-----------------------------------|

**redis-cli**
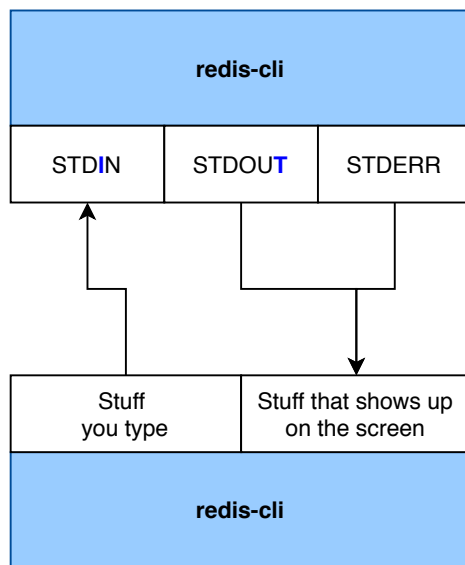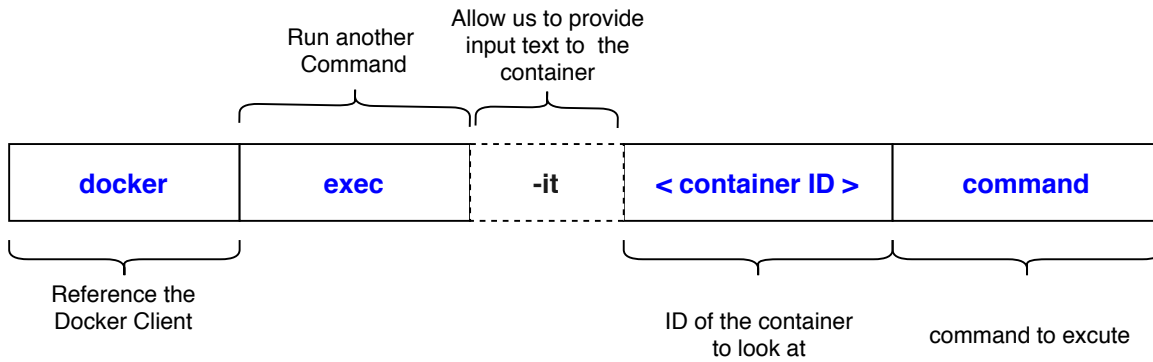
- to get a **terminal** in the context of a running container

| docker | exec | -it | < container ID > | sh |
|--------|------|-----|------------------|-----|

Shell command
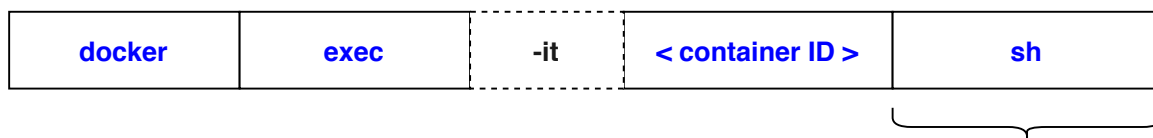
- to terminate the terminal : Ctrl + d

| bash | powershell | zsh | sh |
|------|-----------|-----|-----|

Shell command proecssors
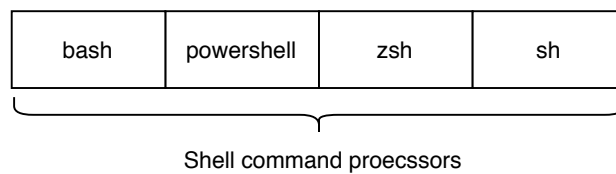
- to get a empty container with a shell inside of it

| docker | run | -it | < Image name > | sh |
|--------|-----|-----|----------------|-----|

Shell command
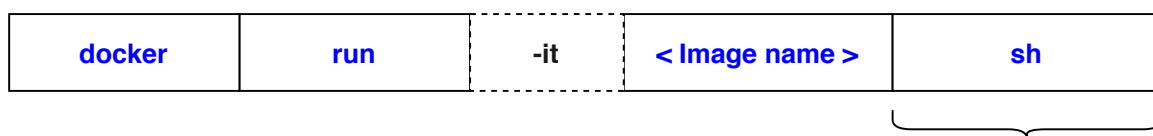
- not going to be running any other process.