

Docker tutorial

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Introduction

There are several examples of docker usage. They are collected in one place mainly for future references.

The source code for examples can be found on the article git repository [\[1\]](#) in the folder **dockertutorial/src**.

1 Base commands

1.1 Simple program run

You can run a command (**uname -a**) with

```
$ docker run ubuntu uname -a
```

The container **ubuntu:latest** will be used in the case.

The command execution status can be viewed with

```
$ docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED          ...
b5e8d82cce29   ubuntu   "uname -a"              5 seconds ago   ...
```

If you run the docker with **-rm** flag then the status info will not be stored.

1.2 Interactive session

You can run an interactive shell with

```
$ docker run -it ubuntu /bin/bash
```

where **-it** means **-interactive -tty**, **ubuntu** the latest ubuntu image and **/bin/bash** - the command to be start

1.3 Docker as a daemon

First of all run the docker in interactive mode and as daemon

```
$ docker run -itd ubuntu
```

possible output

```
649dae02de59ea3eb065a40b1248b2d322986e563ab12af3126fa4bb4710008a
```

Check the docker run in daemon mode with

```
$ docker ps
```

output:

```
$ docker ps
CONTAINER ID      IMAGE          COMMAND        ...
649dae02de59     ubuntu        "/bin/bash"    ...
```

Execute `ls /var` command in the run docker

```
$ docker exec -it 649dae02de59 ls /var
backups  cache  lib  local  lock  log  mail  opt  run  spool  tmp
```

Stop it with

```
$ docker stop 649dae02de59
649dae02de59
```

Check the result

```
$ docker ps
CONTAINER ID      IMAGE          COMMAND        ...
```

References

- [1] Murashko, I. Articles git repository. — 2019. — <https://github.com/ivanmurashko/articles>.