

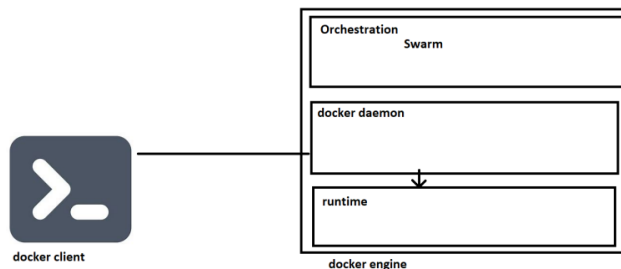


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DevOps Classroomnotes 06/Apr/2023

Docker Installation

- When we install docker we get two major components
 - docker client:
 - A command line to interact with docker engine
 - docker engine: This is collection of multiple components
 - Orchestration
 - Docker daemon
 - Runtime



- to play with docker commands
 - manual --help
 - cheatsheet
- Install
 - Linux VM:
 - Docker can be installed by following instructions over here [Refer Here](#)
 - script based installation [Refer Here](#)

```
curl -fsSL https://get.docker.com -o get-docker.sh
```

```
sh get-docker.sh
```

```
ubuntu@ip-172-31-41-164:~$ docker info
Client:
Context: default
Debug Mode: false
Plugins:
  buildx: Docker Buildx (Docker Inc.)
    Version: v0.10.4
    Path: /usr/libexec/docker/cli-plugins/docker-buildx
  compose: Docker Compose (Docker Inc.)
    Version: v2.17.2
    Path: /usr/libexec/docker/cli-plugins/docker-compose
Server:
ERROR: permission denied while trying to connect to the Docker daemon socket at unix:
//var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/info": dial unix
/var/run/docker.sock: connect: permission denied
errors pretty printing info
ubuntu@ip-172-31-41-164:~$
```

- Docker allows communication to the unix socket for the users who belong to docker group. so lets add current user to docker group `sudo usermod -aG docker <username>`. logout and login

- Now execute docker container run hello-world

```

ubuntu@ip-172-31-41-164:~$ docker container run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:ffb13da98453e0f04d33af6ee5bb8e46ee50d08eb17735fc0779d0349e889e9
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.
   (amd64)
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://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
ubuntu@ip-172-31-41-164:~$

```

Windows 10/11 (Non Home editions)

- [Refer Here](#)
- I will not recommend installing docker on windows.

Mac

- [Refer Here](#)

Docker Playground

- Create a Docker Hub account [Refer Here](#)
- This playground gives a linux machine with docker installed for 4 hours for free. [Refer Here](#)

terms To be aware of

- containerd
- runc
- libcontainer
- oci
- docker shim
- appc
- grpc
- rkt containers

Cheatsheets

- [Refer Here](#)
- [Refer Here](#)

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