

# Docker

## Docker hub

<https://hub.docker.com/>

## Searching an Image

```
docker search <img-name>
```

## Pull a Image

```
docker pull <image>:<version>
```

## Run a Container

```
docker run -it <img-name> /bin/bash
```

## Run a Container with ports + volume

-v = volume, -p = port, -d = detach

```
docker run --name <name> -d -p 80:80 -v /data/websites:/var/www <image/tag>
```

## Run a command inside container

```
docker exec -it <container-name> bash
```

## List Images

```
docker images
```

## List all Containers

```
docker ps -a
```

## List Volumes

```
docker volume ls
```

## Commit a Image

```
docker commit <container-id> <name>
```

## Save image to a tar.gz file

```
docker save --output name.tar <container-name>
```

## Import image from a tar.gz file

```
docker load < name.tar
```

## Start containers automatically

```
systemctl enable docker  
docker run -dit --restart unless-stopped <container-name>
```

## Renaming a Container

```
docker rename <old-name> <new-name>
```

## Delete a Container

```
docker rm <container-id>
```

## Delete a Image

```
docker rmi <image-id>
```

## Stop+Delete all Containers+Images

```
docker stop $(docker ps -a -q)  
docker rm $(docker ps -a -f status=exited -q)  
docker rm $(docker ps -a -q)  
docker rmi $(docker images -q)
```

## Create a Dockerfile

Easy example:

```
FROM ubuntu:18.04  
COPY . /app
```

```
RUN make /app  
CMD python /app/app.py
```

```
docker build -t <image/tag> .
```

More info here: [https://docs.docker.com/develop/develop-images/dockerfile\\_best-practices/](https://docs.docker.com/develop/develop-images/dockerfile_best-practices/)

# Docker Ignore

```
vim .dockerignore  
  
badscript.sh  
*.conf  
README.md
```

```
docker build -t <image/tag> .
```

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