

General Docker Information

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To preface this page; I personally recommend trying out [Portainer](#), which is essentially a web GUI for Docker - it's great. Portainer even lives in a docker container itself.

Regarding images and container management; the contents of this page are great if you're working with a small number of containers that are being installed/setup as a one-off then this is all fine, however, if you're launching containers for applications that need to be updated, changed/customised etc then you're probably best off taking a look at the [Docker Compose page](#).

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Installation

Install Docker CE (Community Edition)

```
apt install docker.io
```

Commands & Usage

Managing Containers

List Docker processes/containers (running and stopped)

```
docker ps -a
```

Start a container

```
docker start containername
```

stop a container

```
docker stop containername
```

Delete a container

```
docker rm containername
```

Check container performance metrics

```
docker stats containername
```

Adding new docker images

Docker has their own 'marketplace' of sorts for docker images:

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

To install a new docker image

```
docker pull container-name
```

List installed Docker images

```
docker images
```

Search locally installed images, and search Docker repository for available images

```
docker search name
```

Launching Containers

Basic launch for a container based on an image

```
docker run --name containername -it imagename
```

There are lots and lots of options available for the [docker run command](#):

Starting an instance with this method will push your shell into the container itself. To exit the container (continues running):

```
ctrl+p ctrl+x
```

To connect to a docker image:

```
docker attach containername
```

To connect to a docker image CLI:

```
docker exec -it containername bash
```

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