

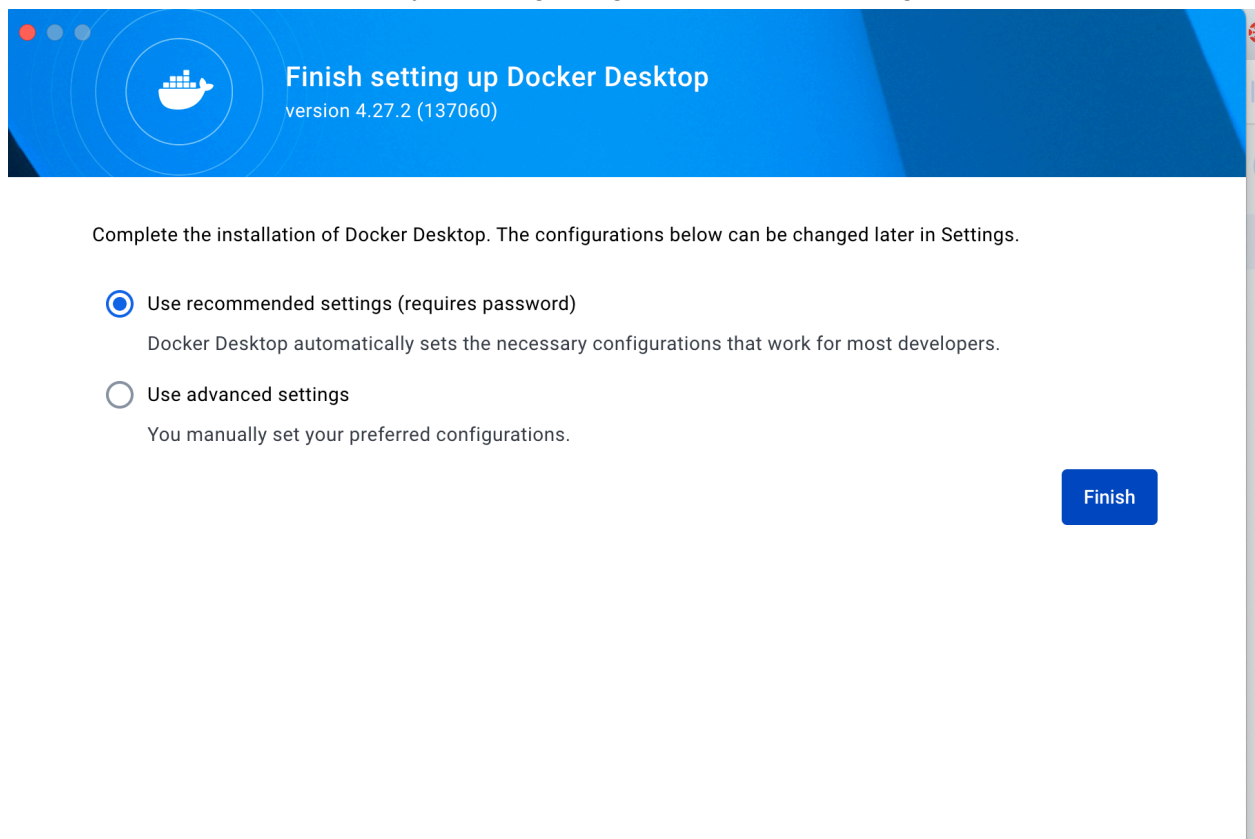
Installation of Docker via Desktop, Virtual Machine, or Cloud Instance (AWS, Azure, GCP, etc). Screenshot of download and installation.

Use Docker to spin up a **CentOS, Ubuntu Desktop/Server, and a Kali Container**. Screenshot showing your successful pull and run of CentOS and Kali Containers running in Docker.

Complete and thorough documentation of all your steps taken to successfully complete download, installation, and configuration.

Docker Install Documentation:

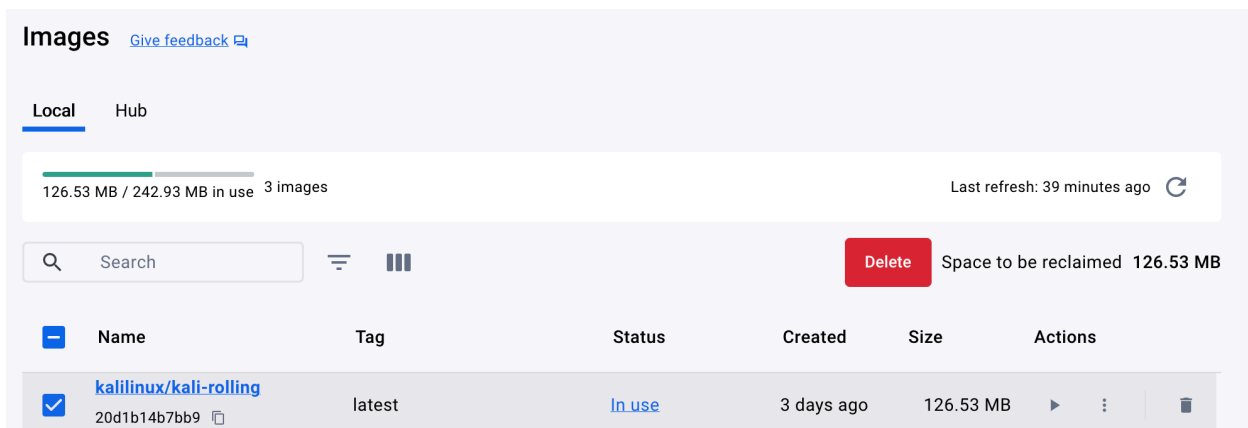
1. Download dmg installer from <https://docs.docker.com/desktop/install/mac-install/>.
2. Finished install wizard by installing using recommended settings.



3. Created a directory in my macbook terminal called kalidocker and move to the directory.
 - a. (mkdir kalidocker)
 - b. (cd kalidocker)

4. Ran the following commands on the terminal CLI:
 - a. `docker pull docker.io/kalilinux/kali-rolling` (to pull kali image to docker desktop)

```
me@ms-MacBook-Air ~ % git clone -m <name>
Initialized empty Git repository in /Users/me/kalidocker/.git/
me@ms-MacBook-Air kalidocker % docker pull kalilinux/kali-rolling
Using default tag: latest
latest: Pulling from kalilinux/kali-rolling
b8db5b66eb9d: Extracting 39.55MB/54.98MB
```

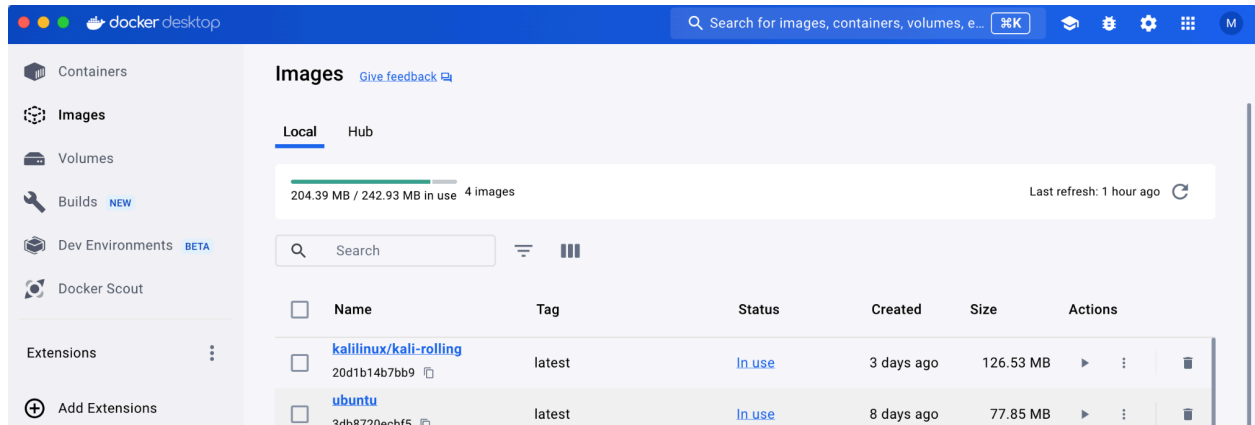


- b. `docker run --tty --interactive kalilinux/kali-rolling` (to create and run a new container with kali image)
 - c. `apt update && apt -y install kali-linux-headless` (update kali packages/install missing items on new container)



5. Created and moved to a directory for my ubuntu docker image & container.

```
me@ms-MacBook-Air ~ % mkdir ubuntu-docker
me@ms-MacBook-Air ~ % cd ubuntu-docker
me@ms-MacBook-Air ubuntu-docker %
```

6. Ran: `docker pull ubuntu` to pull ubuntu image to docker



7. Ran: `docker run ubuntu` to create and run container using image.

<input type="checkbox"/>	Name	Image	Status
<input type="checkbox"/>	 ubuntudesktop acd5522faf04 	ubuntu	Running

```
me@ms-MacBook-Air ubuntudocker % docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
acd5522faf04   ubuntu   "/bin/bash"   About a minute ago   Up 37 seconds           relaxed_allen
me@ms-MacBook-Air ubuntudocker % docker container rename relaxed_allen ubuntudesktop
me@ms-MacBook-Air ubuntudocker % docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
acd5522faf04   ubuntu   "/bin/bash"   7 hours ago   Up 7 hours           ubuntudesktop
```

`docker ps` shows the ubuntu container up and running via terminal CLI also used `docker rename` to rename the container.

8. Created and moved to a directory for my centos docker image & container.

- a. `mkdir centos`
- b. `cd centos`

9. Ran `docker pull centos:latest` to pull centos image to docker.

```
me@ms-MacBook-Air centos % docker pull centos:latest
latest: Pulling from library/centos
Digest: sha256:a27fd8080b517143cbbbab9dfb7c8571c40d67d534bbdee55bd6c473f432b177
Status: Image is up to date for centos:latest
docker.io/library/centos:latest
```

What's Next?

View a summary of image vulnerabilities and recommendations → [docker scout quickview centos:latest](#)

10. Ran `docker run -i centos:latest` to create and run container using centos image.

```
me@ms-MacBook-Air centos % docker run -i centos:latest
```

The screenshot shows the Docker Desktop application window. On the left is a sidebar with navigation options: Containers, Images, Volumes, Builds, Dev Environments, Docker Scout, Extensions, and Add Extensions. The main panel is titled 'Containers' and displays summary statistics for CPU and memory usage. Below this is a table of running containers.

Container CPU usage	Container memory usage
0.00% / 800% (8 CPUs available)	764KB / 3.73GB

Name	Image	Status	CPU (%)	Last start...	Actions
centos d70f0b468269	centos:latest	Running	0%	2 minutes ago	[Stop] [Refresh] [Logs]

```
me@ms-MacBook-Air centos % docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS   NAMES
d70f0b468269   centos:latest  "/bin/bash"             About a minute ago Up About a minute      heuristic_tharp
me@ms-MacBook-Air centos % docker container rename heuristic_tharp centos
me@ms-MacBook-Air centos % docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS   NAMES
d70f0b468269   centos:latest  "/bin/bash"             About a minute ago Up About a minute      centos
me@ms-MacBook-Air centos %
```

`docker ps` shows the centos container up and running via terminal CLI also used `docker rename` to rename the container.

All images pulled to Docker Desktop and three containers running Kali, Ubuntu, and CentOS images.

Containers

Images

Volumes

Builds NEW

Dev Environments BETA

Docker Scout

Extensions

Add Extensions

Images

Local

Hub

435.66 MB / 242.93 MB in use

5 images

Last refresh: 8 hours ago

Search

<input type="checkbox"/>	Name	Tag ↓	Status	Created	Size	Actions
<input type="checkbox"/>	kalilinux/kali-rolling 20d1b14b7bb9	latest	In use	3 days ago	126.53 MB	<div></div> <div></div> <div></div>
<input type="checkbox"/>	ubuntu 3db8720ecbf5	latest	In use	8 days ago	77.85 MB	<div></div> <div></div> <div></div>
<input type="checkbox"/>	centos 5d0da3dc9764	latest	In use	2 years ago	231.26 MB	<div></div> <div></div> <div></div>

Containers

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Dev Environments BETA

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Containers

Container CPU usage ⓘ

0.00% / 800% (8 CPUs available)

Container memory usage ⓘ

10.84MB / 3.73GB

Show charts

Search

Only show running containers

<input type="checkbox"/>	Name	Image	Status	CPU (%)	Last start... ↑	Actions
<input type="checkbox"/>	centos d70f0b468269	centos:latest	Running	0%	4 minutes ago	<div></div> <div></div> <div></div>
<input type="checkbox"/>	ubuntudesktop acd5522faf04	ubuntu	Running	0%	9 seconds ago	<div></div> <div></div> <div></div>
<input type="checkbox"/>	kali c6dd09dbebc3	kalilinux/kali-rolling	Running	0%	7 seconds ago	<div></div> <div></div> <div></div>