```
Select Administrator: Command Prompt                                                    —  □  ×

Microsoft Windows [Version 10.0.19045.4291]
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C:\Users\Administrator>echo print("Hello, Docker!") > app.py

C:\Users\Administrator>
C:\Users\Administrator>echo FROM python:3.9-slim > Dockerfile

C:\Users\Administrator>echo WORKDIR /usr/src/app >> Dockerfile

C:\Users\Administrator>echo COPY . . >> Dockerfile

C:\Users\Administrator>echo CMD ["python", "./app.py"] >> Dockerfile

C:\Users\Administrator>docker build -t sn3009rjk/python-demo:latest
ERROR: "docker buildx build" requires exactly 1 argument.
See 'docker buildx build --help'.

Usage:  docker buildx build [OPTIONS] PATH | URL | -

Start a build

C:\Users\Administrator>docker login
Authenticating with existing credentials...
Login Succeeded

C:\Users\Administrator>docker build -t sn3009rjk/Dockerfile:latest
ERROR: "docker buildx build" requires exactly 1 argument.
See 'docker buildx build --help'.

Usage:  docker buildx build [OPTIONS] PATH | URL | -

Start a build

C:\Users\Administrator>cd C:\Users\Administrator\Desktop\DockerFile

C:\Users\Administrator\Desktop\DockerFile>echo print("Hello, Docker!") > app.py

C:\Users\Administrator\Desktop\DockerFile>
C:\Users\Administrator\Desktop\DockerFile>echo FROM python:3.9-slim > Dockerfile

C:\Users\Administrator\Desktop\DockerFile>echo WORKDIR /usr/src/app >> Dockerfile

C:\Users\Administrator\Desktop\DockerFile>echo COPY . . >> Dockerfile

C:\Users\Administrator\Desktop\DockerFile>echo CMD ["python", "./app.py"] >> Dockerfile

C:\Users\Administrator\Desktop\DockerFile>
C:\Users\Administrator\Desktop\DockerFile>
C:\Users\Administrator\Desktop\DockerFile>docker build -t sn3009rjk/python-demo:latest .
[+] Building 12.9s (9/9) FINISHED                                    docker:desktop-linux
 => [internal] load build definition from Dockerfile                                 0.0s
```

```
C:\Users\Administrator\Desktop\DockerFile>
C:\Users\Administrator\Desktop\DockerFile>
C:\Users\Administrator\Desktop\DockerFile>docker build -t sn3009rjk/python-demo:latest .
[+] Building 12.9s (9/9) FINISHED                                    docker:desktop-linux
 => [internal] load build definition from Dockerfile                                 0.0s
 => => transferring dockerfile: 123B                                                 0.0s
 => [internal] load metadata for docker.io/library/python:3.9-slim                   3.2s
 => [auth] library/python:pull token for registry-1.docker.io                        0.0s
 => [internal] load .dockerignore                                                    0.0s
 => => transferring context: 2B                                                      0.0s
 => [1/3] FROM docker.io/library/python:3.9-slim@sha256:206ac098265fc7f982875f9aeea2e2d4a06a7f98aa1d26883879b2d8d  5.9s
 => => resolve docker.io/library/python:3.9-slim@sha256:206ac098265fc7f982875f9aeea2e2d4a06a7f98aa1d26883879b2d8d  0.0s
 => => sha256:670483cd51703c0fc482b62a932278989fee622b798b30f983594cddda011b43 3.32MB / 3.32MB   0.7s
 => => sha256:8b920a4a2006ec4ec605e111ba04c612492e28b3add16c07007518c614f82cca 11.89MB / 11.89MB  1.8s
 => => sha256:48e2a65c587fe1563d2bca124c6e50f71b2f8e65f3f35db8d47419af42499981 231B / 231B   0.8s
 => => sha256:206ac098265fc7f982875f9aeea2e2d4a06a7f98aa1d26883879b2d8dfd1df04 8.26kB / 8.26kB   0.0s
 => => sha256:ce0beeb9c6f83f702d5f08b9d62f49b2dee99af17dfcc88c1a6a2e05955f28e1 1.94kB / 1.94kB   0.0s
 => => sha256:04bf3d9a322bf0b31ad33a6e59bc590a0aa273bbdb90f65a7d24127e3a6b87e2 6.88kB / 6.88kB   0.0s
 => => extracting sha256:670483cd51703c0fc482b62a932278989fee622b798b30f983594cddda011b43   1.2s
 => => sha256:d95408d27250e2ea990fa9d10fcf494f55997346b9a679cdcf49e767dc3658dc 2.93MB / 2.93MB   1.5s
 => => extracting sha256:8b920a4a2006ec4ec605e111ba04c612492e28b3add16c07007518c614f82cca   2.2s
 => => extracting sha256:48e2a65c587fe1563d2bca124c6e50f71b2f8e65f3f35db8d47419af42499981   0.0s
 => => extracting sha256:d95408d27250e2ea990fa9d10fcf494f55997346b9a679cdcf49e767dc3658dc   1.0s
 => [internal] load build context                                                    0.0s
 => => transferring context: 246B                                                    0.0s
 => [2/3] WORKDIR /usr/src/app                                                       3.2s
 => [3/3] COPY . .                                                                   0.1s
 => exporting to image                                                               0.2s
 => => exporting layers                                                              0.1s
 => => writing image sha256:32d281d8d7f5e008a39ba65f7b50085194fc40e4fb45b622f34d8d696506c7c7   0.0s
 => => naming to docker.io/sn3009rjk/python-demo:latest                              0.0s

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/b0hs1dpmdf1mw7uurbh3f26yg

What's next:
    View a summary of image vulnerabilities and recommendations → docker scout quickview

C:\Users\Administrator\Desktop\DockerFile>
C:\Users\Administrator\Desktop\DockerFile>docker login
Authenticating with existing credentials...
Login Succeeded

C:\Users\Administrator\Desktop\DockerFile>docker push sn3009rjk/python-demo:latest
The push refers to repository [docker.io/sn3009rjk/python-demo]
57b24a69053e: Pushed
8704230f19bd: Pushed
96bc6bc13d2f: Mounted from library/python
8b2d7b261e2c: Mounted from library/python
7d4e4b165042: Mounted from library/python
9a9d1a3508f5: Mounted from library/python
1387079e86ad: Mounted from sn3009rjk/python-docker-demo
```

```
  View a summary of image vulnerabilities and recommendations → docker scout quickview sn3009rjk/python-demo:latest

C:\Users\Administrator\Desktop\DockerFile>docker ps -a
CONTAINER ID   IMAGE                             COMMAND              CREATED          STATUS                      PORTS     NAMES
92a34bee9a47   sn3009rjk/python-demo:latest      "python ./app.py"    3 minutes ago    Exited (0) 3 minutes ago              Container1
3bc78937a523   sn3009rjk/python-demo:latest      "python ./app.py"    12 minutes ago   Exited (0) 12 minutes ago             frosty_swirles
76398dcfdd6f   alpine:latest                     "/bin/sh"            20 hours ago     Exited (0) 20 hours ago               login
4f670201ed99   alpine                            "/bin/sh"            21 hours ago     Up 21 hours                           mycontainer
7891704d7cdf   swarm                             "/swarm --help"      21 hours ago     Exited (0) 21 hours ago               cranky_tesla
4c3032e56460   sn3009rjk/python-docker-demo      "python ./app.py"    21 hours ago     Exited (0) 21 hours ago               eager_ramanujan
d5074fec072d   sn3009rjk/python-docker-demo      "python ./app.py"    23 hours ago     Exited (0) 21 hours ago               demoContainer

C:\Users\Administrator\Desktop\DockerFile>docker ps -l
CONTAINER ID   IMAGE                             COMMAND              CREATED          STATUS                      PORTS     NAMES
92a34bee9a47   sn3009rjk/python-demo:latest      "python ./app.py"    3 minutes ago    Exited (0) 3 minutes ago              Container1

C:\Users\Administrator\Desktop\DockerFile>docker ps -d
unknown shorthand flag: 'd' in -d
See 'docker ps --help'.

C:\Users\Administrator\Desktop\DockerFile>docker ps -q
4f670201ed99

C:\Users\Administrator\Desktop\DockerFile>docker images
REPOSITORY                      TAG       IMAGE ID       CREATED         SIZE
sn3009rjk/python-demo           latest    32d281d8d7f5   39 minutes ago  125MB
sn3009rjk/python-docker-demo    latest    8084a8ba39e8   23 hours ago    126MB
nginx                           latest    e0c9858e10ed   6 days ago      188MB
alpine                          latest    a606584aa9aa   6 days ago      7.8MB
hello-world                     latest    d2c94e258dcb   14 months ago   13.3kB
swarm                           latest    1a5eb59a410f   3 years ago     12.7MB

C:\Users\Administrator\Desktop\DockerFile>docker exec -d
"docker exec" requires at least 2 arguments.
See 'docker exec --help'.

Usage:  docker exec [OPTIONS] CONTAINER COMMAND [ARG...]

Execute a command in a running container

C:\Users\Administrator\Desktop\DockerFile>docker exec -i
"docker exec" requires at least 2 arguments.
See 'docker exec --help'.

Usage:  docker exec [OPTIONS] CONTAINER COMMAND [ARG...]

Execute a command in a running container

C:\Users\Administrator\Desktop\DockerFile>
```

ENG	English (United Kingdom)
	English (India) keyboard
ENG	English (India)
	English (India) keyboard

```
C:\Users\Administrator\Desktop\DockerFile>docker volume create my_volume
my_volume

C:\Users\Administrator\Desktop\DockerFile>
C:\Users\Administrator\Desktop\DockerFile>docker run -d --name COntainer1 -v my_volume:/path/in/container1 sn3009rjk/python-demo:latest
9f2298751f7ba27fc203b9c4c1e5dda15e20f6519e9194d45117236c6dbcaaea

C:\Users\Administrator\Desktop\DockerFile>docker volume create my_volume
my_volume

C:\Users\Administrator\Desktop\DockerFile>
C:\Users\Administrator\Desktop\DockerFile>docker run -d --name COntainer1 -v my_volume:/path/in/container1 sn3009rjk/python-demo:latest
docker: Error response from daemon: Conflict. The container name "/COntainer1" is already in use by container "9f2298751f7ba27fc203b9c4c1e5dda15e20f6519e9194d45117236c6dbcaaea".
You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.

C:\Users\Administrator\Desktop\DockerFile>docker volume ls
DRIVER    VOLUME NAME
local     3868395f9892f3ae6f869d94e15becdb7ad01b869fa6aa64f2ab8b1cc0da2b13
local     my_volume
local     test

C:\Users\Administrator\Desktop\DockerFile>
C:\Users\Administrator\Desktop\DockerFile>docker volume inspect my_volume
[
    {
        "CreatedAt": "2024-06-27T08:27:45Z",
        "Driver": "local",
        "Labels": null,
        "Mountpoint": "/var/lib/docker/volumes/my_volume/_data",
        "Name": "my_volume",
        "Options": null,
        "Scope": "local"
    }
]

C:\Users\Administrator\Desktop\DockerFile>docker volume rm my_volume
Error response from daemon: remove my_volume: volume is in use - [9f2298751f7ba27fc203b9c4c1e5dda15e20f6519e9194d45117236c6dbcaaea]

C:\Users\Administrator\Desktop\DockerFile>
```

Screenshot 1 — Containers

docker desktop

Search for images, containers, volumes, extens... Ctrl+K

- Containers
- Images
- Volumes
- Builds
- Docker Scout
- Extensions

Containers Give feedback

Container CPU usage ⓘ
0.00% / 400% (4 CPUs available)

Container memory usage ⓘ
444KB / 7.58GB

Show charts

Search

Only show running containers

	Name	Image	Status	Port(s)	CPU (%)	Last started	Actions
☐	demoContainer d5074fec072d	sn3009rjk/python-docker-dem	Exited		0%	22 hours ago	▶ ⋮ 🗑
☐	eager_ramanujan 4c3032e56460	sn3009rjk/python-docker-dem	Exited		0%	22 hours ago	▶ ⋮ 🗑
☐	cranky_tesla 7891704d7cdf	swarm	Exited		0%	22 hours ago	▶ ⋮ 🗑
☐	mycontainer 4f670201ed99	alpine	Running		0%	22 hours ago	■ ⋮ 🗑
☐	login 76398dcfdd6f	alpine:latest	Exited		0%	21 hours ago	▶ ⋮ 🗑
☐	frosty_swirles 3bc78937a523	sn3009rjk/python-demo:latest	Exited		0%	50 minutes ago	▶ ⋮ 🗑
☐	Container1 92a34bee9a47	sn3009rjk/python-demo:latest	Exited		0%	41 minutes ago	▶ ⋮ 🗑

Showing 7 items

Engine running RAM 4.78 GB CPU 0.25% v4.31.1

Screenshot 2 — Images

docker desktop

Search for images, containers, volumes, extens... Ctrl+K

- Containers
- Images
- Volumes
- Builds
- Docker Scout
- Extensions

Images Give feedback

Local   Hub

197.06 MB / 146.99 MB in use   6 images

Last refresh: 21 hours ago

Search

	Name	Tag	Status	Created	Size	Actions
☐	sn3009rjk/python-demo 32d281d8d7f5	latest	In use	37 minutes ag	124.91 MB	▶ ⋮ 🗑
☐	sn3009rjk/python-docker-demo 8084a8ba39e8	latest	In use	23 hours ago	126.46 MB	▶ ⋮ 🗑
☐	nginx e0c9858e10ed	latest	Unused	6 days ago	187.66 MB	▶ ⋮ 🗑
☐	alpine a606584aa9aa	latest	In use	6 days ago	7.79 MB	▶ ⋮ 🗑
☐	hello-world d2c94e258dcb	latest	Unused	1 year ago	13.25 KB	▶ ⋮ 🗑
☐	swarm 1a5eb59a410f	latest	In use	4 years ago	12.71 MB	▶ ⋮ 🗑

Showing 6 items

Engine running RAM 4.78 GB CPU 0.25% v4.31.1