

Docker running verify

```
PS C:\Users\ryand\Desktop\sem5\COMP3104\wk11> docker run hello-world

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/

PS C:\Users\ryand\Desktop\sem5\COMP3104\wk11>
```

```
PS C:\Users\ryand\Desktop\sem5\COMP3104\wk11> dir

Directory: C:\Users\ryand\Desktop\sem5\COMP3104\wk11


Mode                LastWriteTime         Length Name
----                -
d-----          11/16/2025   1:34 PM             SC
-a-----          11/16/2025   1:18 PM           673 app.py
-a-----          11/16/2025   1:18 PM          506 Dockerfile
-a-----          11/16/2025   1:18 PM          179 ReadMe.md
-a-----          11/16/2025   1:18 PM           11 requirements.txt
```

Docker build

```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS PLAYWRIGHT

PS C:\Users\ryand\Desktop\sem5\COMP3104\wk11> docker build --tag=hellodocker .

=> transferring context: 2B
=> [1/4] FROM docker.io/library/python:2.7-slim@sha256:6c1ffdf499e29ea663e6e67c 19.6s
=> resolve docker.io/library/python:2.7-slim@sha256:6c1ffdf499e29ea663e6e67c 0.0s
=> sha256:6c1ffdf499e29ea663e6e67c9b6b9a3b401d554d2c9f061f9a 1.86kB / 1.86kB 0.0s
=> sha256:b68d40df862ac07e8955ea0fc0c5454cb4245b6165e79bc8ea2 1.16kB / 1.16kB 0.0s
=> sha256:eeb27ee6b89303f04a917e457eda70d032b1574ec80d0b4ea41 7.95kB / 7.95kB 0.0s
=> sha256:123275d6e508d282237a22fefa5aef822b719a06496444ea 27.10MB / 27.10MB 15.6s
=> sha256:dd1cd66375238ded36eeaea07567a1997f7fd76611a517119ec 2.75MB / 2.75MB 2.0s
=> sha256:0c4e6d630f2cb5403efb04352c40ed72f1884355253a0cc1 19.66MB / 19.66MB 18.8s
=> sha256:13e9cd8f0ea14403e44c745ea5212658b6600021f6beb6fc484 2.18MB / 2.18MB 4.8s
=> extracting sha256:123275d6e508d282237a22fefa5aef822b719a06496444ea89efa65d 1.2s
=> extracting sha256:dd1cd66375238ded36eeaea07567a1997f7fd76611a517119ec39fee 0.1s
=> extracting sha256:0c4e6d630f2cb5403efb04352c40ed72f1884355253a0cc15486c4e6 0.5s
=> extracting sha256:13e9cd8f0ea14403e44c745ea5212658b6600021f6beb6fc484f2570 0.2s
[internal] load build context
=> transferring context: 53.98kB
=> [2/4] WORKDIR /app
=> [3/4] COPY /app
=> [4/4] RUN pip install --trusted-host pypi.python.org -r requirements.txt 2.7s
=> exporting to image
=> exporting layers
=> writing image sha256:0421698d6a3b196326536f959bf0f5702f0a30f877ec7362b5da6 0.0s
=> naming to docker.io/library/hellodocker 0.0s

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/bw9kustx1jeipeoza8tw325u

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

Docker image show

```
PS C:\Users\ryand\Desktop\sem5\COMP3104\wk11> docker image ls
REPOSITORY              TAG                IMAGE ID           CREATED            SIZE
hellodocker              latest            0421698d6a3b      32 seconds ago    159MB
comp3095_group-wellness-resource-service latest            c705e4dcbbae      10 days ago       238MB
comp3095_group-event-service latest            30d8d31e3bec      10 days ago       228MB
comp3095_group-goal-tracking-service latest            4bac7a5917ed      10 days ago       209MB
<none>                   <none>           f2071423fbba      10 days ago       238MB
postgres                 16               23ab7b9541a2      12 days ago       451MB
redis                    7-alpine
```

Container running

← → ↺

localhost:4000

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Finish update ⋮

Hello World!

Hostname: 17663a08ea00

Visits: cannot connect to Redis, counter disabled

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PS C:\Users\ryand\Desktop\sem5\COMP3104> docker container ls
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS                    NAMES
260e2740020f   hellodocker "python app.py"         8 seconds ago   Up 8 seconds   0.0.0.0:4000->80/tcp     practical_noyce
PS C:\Users\ryand\Desktop\sem5\COMP3104>
```