

ASSIGNMENT - 1

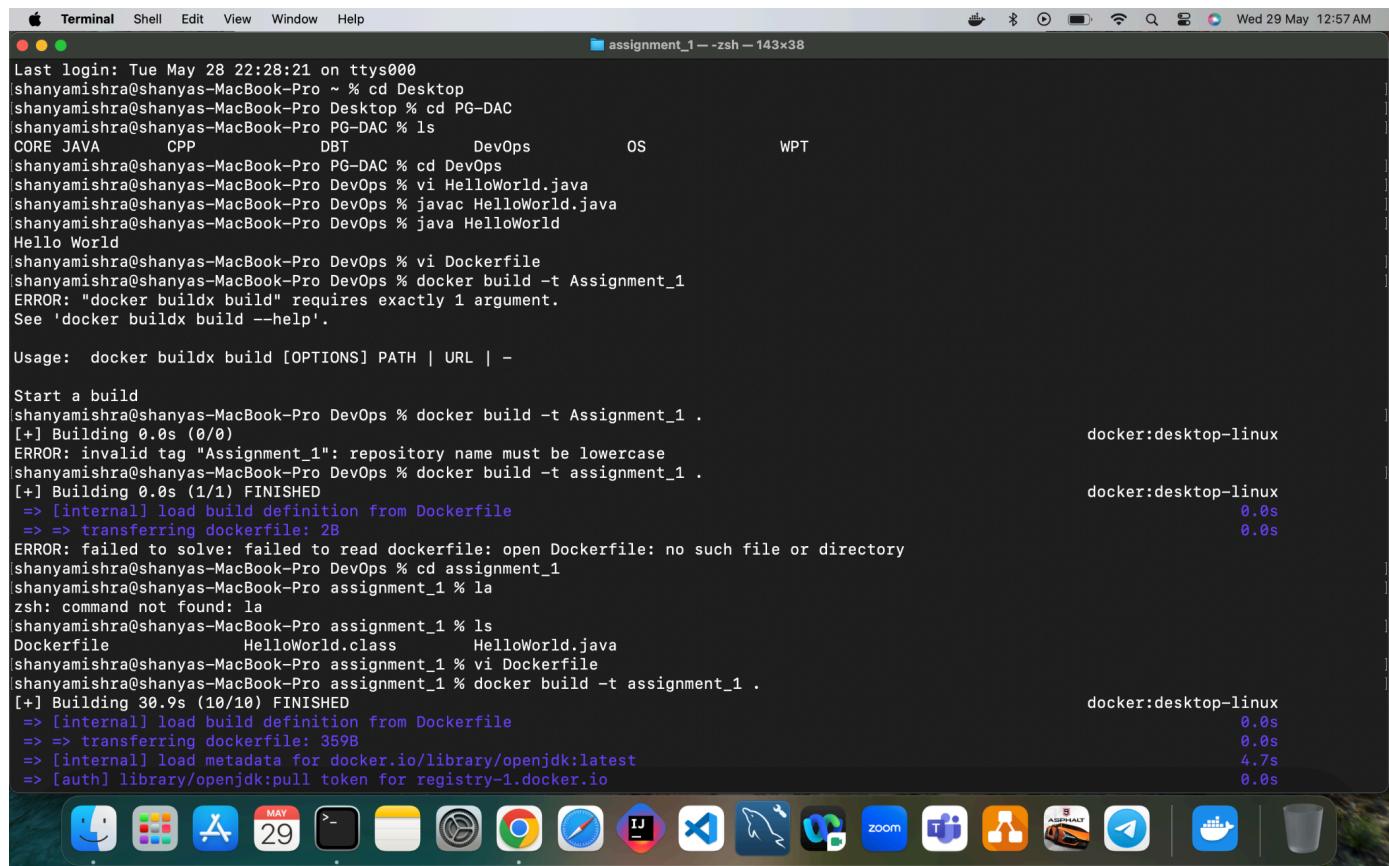
1. Create a Hello World Docker Java image. Push it to DockerHub as version 1.

2. Add two more lines to the Hello World program:

This is from C-DAC ACTS ...

We are in DAC ...

Push version 2 of the same Docker image to DockerHub.



```
Last login: Tue May 28 22:28:21 on ttys000
shanyamishra@shanyas-MacBook-Pro ~ % cd Desktop
shanyamishra@shanyas-MacBook-Pro Desktop % cd PG-DAC
shanyamishra@shanyas-MacBook-Pro PG-DAC % ls
CORE JAVA      CPP          DBT        DevOps      OS          WPT
shanyamishra@shanyas-MacBook-Pro PG-DAC % cd DevOps
shanyamishra@shanyas-MacBook-Pro DevOps % vi HelloWorld.java
shanyamishra@shanyas-MacBook-Pro DevOps % javac HelloWorld.java
shanyamishra@shanyas-MacBook-Pro DevOps % java HelloWorld
Hello World
shanyamishra@shanyas-MacBook-Pro DevOps % vi Dockerfile
shanyamishra@shanyas-MacBook-Pro DevOps % docker build -t Assignment_1
ERROR: "docker buildx build" requires exactly 1 argument.
See 'docker buildx build --help'.

Usage: docker buildx build [OPTIONS] PATH | URL | -
Start a build
shanyamishra@shanyas-MacBook-Pro DevOps % docker build -t Assignment_1 .
[+] Building 0.0s (0/0)
ERROR: invalid tag "Assignment_1": repository name must be lowercase
shanyamishra@shanyas-MacBook-Pro DevOps % docker build -t assignment_1 .
[+] Building 0.0s (1/1) FINISHED
=> [internal] load build definition from Dockerfile
=> transferring dockerfile: 2B
docker:desktop-linux
0.0s
0.0s
ERROR: failed to solve: failed to read dockerfile: open Dockerfile: no such file or directory
shanyamishra@shanyas-MacBook-Pro DevOps % cd assignment_1
shanyamishra@shanyas-MacBook-Pro assignment_1 % ls
zsh: command not found: la
shanyamishra@shanyas-MacBook-Pro assignment_1 % ls
Dockerfile      HelloWorld.class      HelloWorld.java
shanyamishra@shanyas-MacBook-Pro assignment_1 % vi Dockerfile
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker build -t assignment_1 .
[+] Building 30.9s (10/10) FINISHED
=> [internal] load build definition from Dockerfile
=> transferring dockerfile: 359B
=> [internal] load metadata for docker.io/library/openjdk:latest
=> [auth] library/openjdk:pull token for registry-1.docker.io
docker:desktop-linux
0.0s
0.0s
4.7s
0.0s
```

```

Terminal Shell Edit View Window Help assignment_1 --zsh - 143x37
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker build -t assignment_1 .
[+] Building 30.9s (10/10) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 359B
=> [internal] load metadata for docker.io/library/openjdk:latest
=> [auth] library/openjdk:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> => resending docker.io/library/openjdk:latest@sha256:9b448de897d211c9e0ec635a485650aed6e28d4eca1efbc34940560a480b3f1f
=> => sha256:fb69dde29350e5a2369237cbe74bc3c8c50699d796a4fd09120ea4a5b1f2be9 13.07MB / 13.07MB
=> => sha256:a9aa923f7ad4add5195847c41ed7363d0bfbd7acfaaf6e6bf7dd79d2e2d450a 187.66MB / 187.66MB
=> => sha256:9b448de897d211c9e0ec635a485650aed6e28d4eca1efbc34940560a480b3f1f 1.04kB / 1.04kB
=> => sha256:67a1a4d5758ef446638d8f7cc36fb23f527 954B / 954B
=> => sha256:99f0a0d04588698b558992186dad9198923649e9970a36c8f04ae148f8f568b6 4.48kB / 4.48kB
=> => sha256:7d4ed4ca78bc8f807025d2f2a491ee6099ed37ad0ce330257955d319a347f 43.46MB / 43.46MB
=> => extracting sha256:7d4ed4ca78bc8f807025d2f2a491ee6099ed37ad0ce330257955d319a347f
=> => extracting sha256:fb69dde29350e5a2369237cbe74bc3c8c50699d796a4fd09120ea4a5b1f2be9
=> => extracting sha256:a9aa923f7ad4add5195847c41ed7363d0bfbd7acfaaf6e6bf7dd79d2e2d450a
=> [internal] load build context
=> => transferring context: 979B
=> [2/4] WORKDIR /app
=> [3/4] COPY . /app
=> [4/4] RUN javac HelloWorld.java
=> exporting to image
=> => exporting layers
=> => writing image sha256:6b7f3fab6b15c831ea8c2810d4a7ebd3d1d7d786a2001de47363ed01571bb420
=> => naming to docker.io/library/assignment_1

What's Next?
View a summary of image vulnerabilities and recommendations → docker scout quickview
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker run assignment_1
Hello World
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker run assignment_1
Hello World

```



```

Terminal Shell Edit View Window Help assignment_1 --zsh - 143x37
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker run assignment_1
Hello World
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
assignment_1 latest 6b7f3fab6b15 7 minutes ago 487MB
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker tag 6b7f3fab6b15 ayush9kumar9/assignment_1:1.0
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker push ayush9kumar9/assignment_1:1.0
The push refers to repository [docker.io/ayush9kumar9/assignment_1]
cf243ad50260: Pushed
2becd209da13: Pushed
f013746721ec: Pushed
b7f13fa277fd: Mounted from library/openjdk
d18db2f65043: Mounted from library/openjdk
6fbe0a91d471: Mounted from library/openjdk
1.0: digest: sha256:81bbb32a2ace1bc515aed4f2cdf9c5a8645e8179af604f7b7af5e98dbf4ed11 size: 1574
shanyamishra@shanyas-MacBook-Pro assignment_1 % ls
Dockerfile HelloWorld.class HelloWorld.java
shanyamishra@shanyas-MacBook-Pro assignment_1 % vi HelloWorld.java
shanyamishra@shanyas-MacBook-Pro assignment_1 % javac HelloWorld.java
shanyamishra@shanyas-MacBook-Pro assignment_1 % java HelloWorld
Hello World
This is from C-DAC ACTS ...
We are in DAC ...
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker run assignment_1
Hello World
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker build -t assignment_1
ERROR: "docker buildx build" requires exactly 1 argument.
See 'docker buildx build --help'.

Usage: docker buildx build [OPTIONS] PATH | URL | -
Start a build
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker build -t assignment_1 .
[+] Building 2.8s (10/10) FINISHED
:desktop-linux

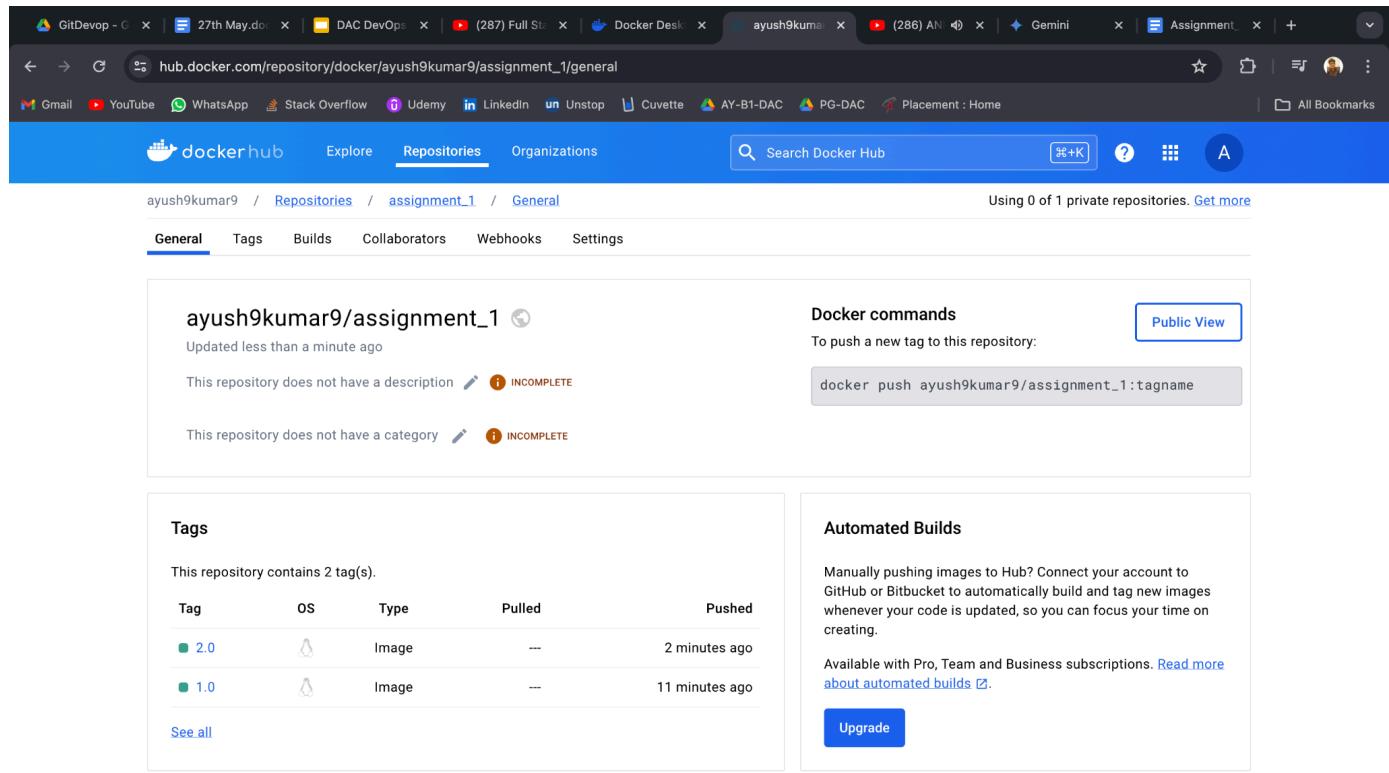
```



```
Terminal Shell Edit View Window Help assignment_1 --zsh - 143x37
Start a build
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker build -t assignment_1 .
[+] Building 2.8s (10/10) FINISHED
:desktop-linux
=> [internal] load build definition from Dockerfile
    0.0s
=> => transferring dockerfile: 359B
    0.0s
=> [internal] load metadata for docker.io/library/openjdk:latest
    2.4s
=> [auth] library/openjdk:pull token for registry-1.docker.io
    0.0s
=> [internal] load .dockerignore
    0.0s
=> => transferring context: 2B
    0.0s
=> [1/4] FROM docker.io/library/openjdk:latest@sha256:9b448de897d211c9e0ec635a485650aed6e28d4eca1efbc34940560a480b3f1f
    0.0s
=> [internal] load build context
    0.0s
=> => transferring context: 826B
    0.0s
=> CACHED [2/4] WORKDIR /app
    0.0s
=> [3/4] COPY . /app
    0.0s
=> [4/4] RUN javac HelloWorld.java
    0.4s
=> exporting to image
    0.0s
=> => exporting layers
    0.0s
=> => writing image sha256:df2491f9fb794be1f41d42b60e64c89b7c75c05d3854a8486bb1255b76fa7ea2
    0.0s
=> => naming to docker.io/library/assignment_1
    0.0s
```

```
Terminal Shell Edit View Window Help assignment_1 — zsh — 143x38
0.0s
=> => exporting layers
0.0s
=> => writing image sha256:df2491f9fb794be1f41d42b60e64c89b7c75c05d3854a8486bb1255b76fa7ea2
0.0s
=> => naming to docker.io/library/assignment_1
0.0s

What's Next?
View a summary of image vulnerabilities and recommendations → docker scout quickview
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker run assignment_1
Hello World
This is from C-DAC ACTS ...
We are in DAC ...
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker images
REPOSITORY          TAG      IMAGE ID      CREATED        SIZE
assignment_1        latest    df2491f9fb79   24 seconds ago  487MB
ayush9kumar9/assignment_1  1.0      6b7f3fab6b15  17 minutes ago  487MB
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker tag df2491f9fb79 ayush9kumar9/assignment_1:2.0
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker push ayush9kumar9/assignment_1:2.0
The push refers to repository [docker.io/ayush9kumar9/assignment_1]
8da7f588a8c0: Pushed
f122e0463930: Pushed
f013746721ec: Layer already exists
b7f13fa277fd: Layer already exists
d18db2f65043: Layer already exists
6fbe0a91d471: Layer already exists
2.0: digest: sha256:d20ce9fed4a5e8450bb6b303d285397079f63f401ba02f8c9150facfb4b55fd size: 1574
shanyamishra@shanyas-MacBook-Pro assignment_1 % docker images
REPOSITORY          TAG      IMAGE ID      CREATED        SIZE
ayush9kumar9/assignment_1  2.0      df2491f9fb79   About a minute ago  487MB
assignment_1        latest    df2491f9fb79   About a minute ago  487MB
ayush9kumar9/assignment_1  1.0      6b7f3fab6b15  19 minutes ago  487MB
shanyamishra@shanyas-MacBook-Pro assignment_1 %
```



The screenshot shows the Docker Hub repository page for `ayush9kumar9/assignment_1`. The top navigation bar includes links for Gmail, YouTube, WhatsApp, Stack Overflow, Udemy, LinkedIn, Unstop, Cuvette, AY-B1-DAC, PG-DAC, and Placement : Home. The main header has tabs for **Repositories** (selected), Explore, and Organizations. A search bar says "Search Docker Hub". Below the header, the repository path is `ayush9kumar9 / Repositories / assignment_1 / General`, and it states "Using 0 of 1 private repositories. [Get more](#)". The "General" tab is selected, showing options for Tags, Builds, Collaborators, Webhooks, and Settings.

ayush9kumar9/assignment_1 (Public View)

Updated less than a minute ago

This repository does not have a description (Incomplete)

This repository does not have a category (Incomplete)

Docker commands

To push a new tag to this repository:

```
docker push ayush9kumar9/assignment_1:tagname
```

Tags

This repository contains 2 tag(s).

Tag	OS	Type	Pulled	Pushed
2.0	🐧	Image	---	2 minutes ago
1.0	🐧	Image	---	11 minutes ago

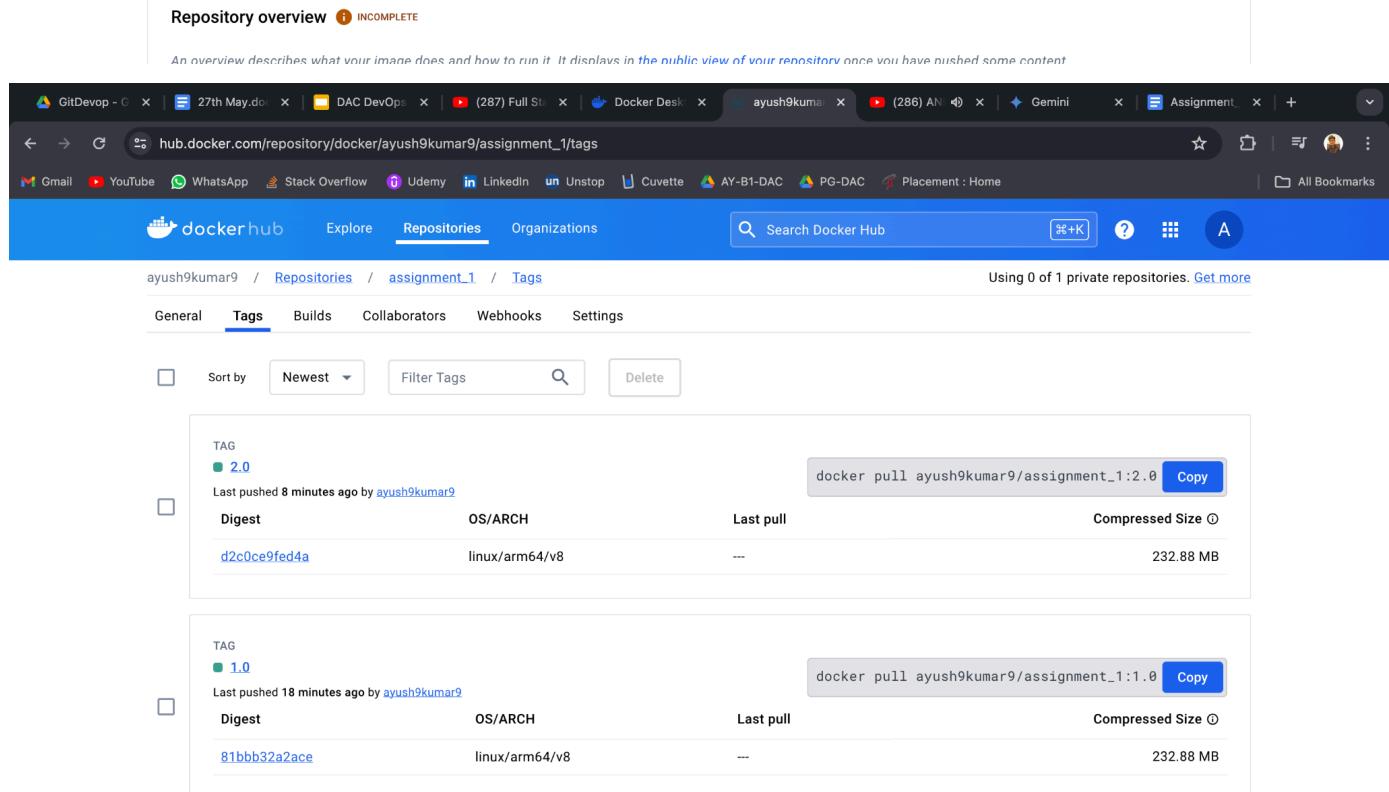
[See all](#)

Automated Builds

Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions. [Read more about automated builds](#).

[Upgrade](#)



The screenshot shows the Docker Hub repository page for `ayush9kumar9/assignment_1`, specifically the `/tags` section. The top navigation bar and header are identical to the previous screenshot. The main content shows the repository path `ayush9kumar9 / Repositories / assignment_1 / Tags` and "Using 0 of 1 private repositories. [Get more](#)". The "Tags" tab is selected, showing options for General, Tags, Builds, Collaborators, Webhooks, and Settings.

Repository overview (Incomplete)

An overview describes what your image does and how to run it. It displays in [the public view of your repository](#) once you have pushed some content.

Tags

Sort by: Newest | Filter Tags | Delete

TAG	Digest	OS/ARCH	Last pull	Compressed Size
2.0	d2c0ce9fed4a	linux/arm64/v8	---	232.88 MB

TAG	Digest	OS/ARCH	Last pull	Compressed Size
1.0	81bbb32a2ace	linux/arm64/v8	---	232.88 MB

https://hub.docker.com/repository/docker/ayush9kumar9/assignment_1/tags