

WAD- Assignment 2b

Title- Docker Container

Dockerfile

```
Dockerfile > ...
1  # Use an official Python runtime as a base image
2  FROM python:3.12
3
4  # Set the working directory in the container
5  WORKDIR /app
6
7  # Copy all files from the current directory into the container
8  COPY . .
9
10 # Default command to run the script
11 CMD ["python", "app.py"]
12
```

App.py

```
app.py
1  # app.py
2
3  print("Hello from inside Docker!")
4
```

Output

The screenshot shows the Docker Desktop interface with the 'Images' tab selected. The left sidebar contains navigation options: Containers, Images, Volumes, Builds, Docker Hub, Docker Scout, and Extensions. The main area displays a list of images:

	Name	Tag	Image ID	Created	Size	Actions
<input type="checkbox"/>	ubuntu	latest	72297848456d	2 months ago	117.35 MB	
<input type="checkbox"/>	hello-world	latest	bfb0cc14f13	3 months ago	20.4 KB	
<input type="checkbox"/>	my-basic-python-app	latest	b8f566e288fa	1 second ago	1.46 GB	

Below the images list is a terminal window showing the following commands and output:

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\SHUBHAM> cd desktop
PS C:\Users\SHUBHAM\desktop> cd wad
PS C:\Users\SHUBHAM\desktop\wad> cd 2b-docker
PS C:\Users\SHUBHAM\desktop\wad\2b-docker> docker build -t my-basic-python-app .
[+] Building 46.7s (9/9) FINISHED
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 310B 0.0s
=> [internal] load metadata for docker.io/library/python:3.12 5.7s
=> [auth] library/python:pull token for registry-1.docker.io 0.0s
```

The status bar at the bottom indicates 'Engine running', 'RAM 1.02 GB', 'CPU 0.00%', and 'Disk: 2.61 GB used (limit 1006.85 GB)'. A 'New version available' notification is also present.

The screenshot shows the Docker Desktop interface with the 'Containers' tab selected. The left sidebar is the same as in the previous image. The main area displays a list of running containers:

	Name	Container ID	Image	Port(s)	CPU (%)	Last start	Actions
<input type="checkbox"/>	strange_gagarin	c12b75f6e792	hello-world		N/A	1 month a	
<input type="checkbox"/>	elated_roentgen	8d5082f8da8b	ubuntu		N/A	1 month a	
<input type="checkbox"/>	quizzical_lichter	db1dbb5d34d1	hello-world		N/A	1 month a	
<input type="checkbox"/>	adoring_kilby	76455ac42f14	my-basic-p		N/A	9 seconds	

Below the containers list is a terminal window showing the following commands and output:

```
=> => exporting manifest sha256:cf4a3b93a96d2c5cfd490d074075d548a445fe7245fa297b8114e31c3971186e 0.0s
=> => exporting config sha256:4a33fe561d29a59fe7bb7c46c6de5cd1cb0449f6079be2faf2fca5f465e37b25 0.0s
=> => exporting attestation manifest sha256:7f6cb46ac19dcc7a366419bf901e1aa45c6856bca06e2304a170ed 0.0s
=> => exporting manifest list sha256:b8f566e288faac869ae3d439d167afa14b5a13fe473f17c9b76701f4132eb 0.0s
=> => naming to docker.io/library/my-basic-python-app:latest 0.0s
=> => unpacking to docker.io/library/my-basic-python-app:latest 0.0s

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/cnqs31i7y2kcywdbcf5a3vj8x
PS C:\Users\SHUBHAM\desktop\wad\2b-docker> docker run my-basic-python-app
Hello from inside Docker!
PS C:\Users\SHUBHAM\desktop\wad\2b-docker>
```

The status bar at the bottom indicates 'Engine running', 'RAM 1.08 GB', 'CPU 0.00%', and 'Disk: 2.61 GB used (limit 1006.85 GB)'. A 'New version available' notification is also present.