

DOCKER MODULE 4 TEST

Java file compilation and run command

```
C:\Users\verizon\Desktop\Module 4>javac Module4.java

C:\Users\verizon\Desktop\Module 4>java Module4
Welcome to Module-4 Coding test.
```

Docker Commands

1) Build Command

```
C:\Users\verizon\Desktop\Module 4>docker build -t verizon .
[+] Building 2.8s (10/10) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 401B
=> [internal] load metadata for docker.io/library/openjdk:17-jdk-slim
=> [auth] library/openjdk:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/4] FROM docker.io/library/openjdk:17-jdk-slim@sha256:aaa3b3cb27e3e520b8f116863d0580c438ed55ecfa0bc126b41f68c3f62f9774
=> [internal] load build context
=> => transferring context: 1.08kB
=> CACHED [2/4] WORKDIR /var/www/java
=> [3/4] COPY . .
=> [4/4] RUN javac Module4.java
=> exporting to image
=> => exporting layers
=> => writing image sha256:e9d3fbc1825ec36eb1c60cab341ab7871873ef8efcf2ba5c776fb904dc05b465
=> => naming to docker.io/library/verizon

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

2) Images Command

```
C:\Users\verizon\Desktop\Module 4>docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
verizon	latest	e9d3fbc1825e	8 seconds ago	408MB
mymod4	latest	3840c4f8ae0a	5 minutes ago	408MB
mymodule4	latest	3840c4f8ae0a	5 minutes ago	408MB

3) Run Command

```
C:\Users\verizon\Desktop\Module 4>docker run verizon
Welcome to Module-4 Coding test.
```

4) ps -a Command

```
C:\Users\verizon\Desktop\Module 4>docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
c12798e27d3a	verizon	"java Module4"	About a minute ago	Exited (0) About a minute ago		fervent_lovelace
d266b7a11b2f	verizon	"java Module4"	About a minute ago	Exited (0) About a minute ago		fullstack
1a95492af8c9	mymodule4	"java Customer"	4 minutes ago	Exited (1) 4 minutes ago		testing4
9bd3c8a023b7	mymodule4	"java Customer"	4 minutes ago	Exited (1) 4 minutes ago		testmod4
9e0a4416bb8f	mymod4	"java Customer"	5 minutes ago	Exited (1) 5 minutes ago		test4
4fb48783ced1	mymodule4	"java Customer"	6 minutes ago	Exited (1) 6 minutes ago		javamod4
709f848f9935	mymodule4	"java Customer"	6 minutes ago	Exited (1) 6 minutes ago		java4

5) pull nginx Command

```
C:\Users\verizon\Desktop\Module 4>docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
e4fff0779e6d: Pull complete
2a0cb278fd9f: Pull complete
7045d6c32ae2: Pull complete
03de31afb035: Pull complete
0f17be8dcff2: Pull complete
14b7e5e8f394: Pull complete
23fa5a7b99a6: Pull complete
Digest: sha256:447a8665cc1dab95b1ca778e162215839ccbb9189104c79d7ec3a81e14577add
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest

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

6) Start command

```
C:\Users\verizon\Desktop\Module 4>docker start fullstack
fullstack

C:\Users\verizon\Desktop\Module 4>docker logs fullstack
Welcome to Module-4 Coding test.
Welcome to Module-4 Coding test.
```

7) logout/login command

```
C:\Users\verizon\Desktop\Module 4>docker logout
Removing login credentials for https://index.docker.io/v1/

C:\Users\verizon\Desktop\Module 4>docker login
Log in with your Docker ID or email address to push and pull images from
You can log in with your password or a Personal Access Token (PAT). Using
tokens/

Username: resource30
Password:
Login Succeeded
```

8) container prune command

```
C:\Users\verizon\Desktop\Module 4>docker container prune
WARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] y
Deleted Containers:
c12798e27d3a9230242a71ed13514b6dfff8d82e7b7b5740aef9d352a88f7ec1
1a95492af8c95d11b72fbaf7bf89e26ea855e27dd2446d968252952e0299c9ab
9bd3c8a023b79ba560cc2cffa6e9dc85ce224190dba790d009a53ef8df81c840
4fb48783ced1383540b8edeb8e204973c163b4490030f3b0cb4f6217f3e7ac42
709f848f993537a3b0193e7b593a590b2ccc01fbfb25bf8ecc7e5fcc576f4ee4

Total reclaimed space: 0B
```

9) Inspect command

```
C:\Users\verizon\Desktop\Module 4>docker inspect 3840c4f8ae0a
[
  {
    "Id": "sha256:3840c4f8ae0ae96527936d6592cecd4d101737085e6330239d122b9ac4a070d",
    "RepoTags": [
      "mymod4:latest"
    ],
    "RepoDigests": [],
    "Parent": "",
    "Comment": "buildkit.dockerfile.v0",
    "Created": "2024-09-04T05:16:30.695053187Z",
    "DockerVersion": "",
    "Author": "",
    "Config": {
      "Hostname": "",
      "Domainname": "",
      "User": "",
      "AttachStdin": false,
      "AttachStdout": false,
      "AttachStderr": false,
      "Tty": false,
      "OpenStdin": false,
      "StdinOnce": false,
      "Env": [
        "PATH=/usr/local/openjdk-17/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin",
        "JAVA_HOME=/usr/local/openjdk-17",
        "LANG=C.UTF-8",
        "JAVA_VERSION=17.0.2"
      ],
      "Cmd": [
        "java",
        "Customer"
      ],
      "ArgsEscaped": true,
      "Image": "",
      "Volumes": null,
      "WorkingDir": "/var/www/java",
      "Entrypoint": null,
      "OnBuild": null,
      "Labels": null
    },
    "Architecture": "amd64",
    "Os": "linux",
    "Size": 407751669,
    "GraphDriver": {
      "Data": {
        "LowerDir": "/var/lib/docker/overlay2/mtffoqtigo9y1hbt0duyjexe/diff:/var/lib/docker/overlay2/3626fyzzw564qlgbjptq4ph/diff:/var/lib/docker/overlay2/b4c7bb757d83c9c1c2e71d913c09fee47662ced993681d153aa334623d653753/diff:/var/lib/docker/overlay2/09e6f211f6f49cd13132f091aed649641be2034a1566c708844beef06d6d58c2/diff:/var/lib/docker/overlay2/dd128c3475ed7a737ef5611124f5eed124cecc333aefd3cb1d3ef091be692b8/diff",
        "MergedDir": "/var/lib/docker/overlay2/wuu62ec1bjsw2n9bf201tf8zq/merged",
        "UpperDir": "/var/lib/docker/overlay2/wuu62ec1bjsw2n9bf201tf8zq/diff",
        "WorkDir": "/var/lib/docker/overlay2/wuu62ec1bjsw2n9bf201tf8zq/work"
      },
      "Name": "overlay2"
    },
    "RootFS": {
      "Type": "layers",
      "Layers": [
        "sha256:9c1b6dd6c1e6be9fdd2b1987783824670d3b0dd7ae8ad6f57dc3cea5739ac71e",
        "sha256:13a34b6ffff7804cf7f6e8f52a4cf25ceb2e32fc35a6f39e8158074c64831ebf0",
        "sha256:6be690267e7ddcf0965449d2af70a9eca9879f9436948ee83d7f4ad473b8e64",
        "sha256:d0a9a0593cf730cf6a80725abca4af017403122ffdd1d9e01b7e237a7c3b3",
        "sha256:9ce3f42ea98c11bd5bf3fcfce88ca1414cb6994c501dd25130b4e265afff677f",
        "sha256:b0b5a6571f286098f8f65d9e4f7c4314431805ccccb9ac8be3cbc292278ba0838"
      ]
    },
    "Metadata": {
      "LastTagTime": "2024-09-04T05:17:01.846418314Z"
    }
  }
]
```

10) history command

```
C:\Users\verizon\Desktop\Module 4>docker history myv
```

IMAGE	CREATED	CREATED BY	SIZE	COMMENT
e9d3fbc1825e	41 minutes ago	CMD ["java" "Module4"]	0B	buildkit.dockerfile.v0
<missing>	41 minutes ago	RUN /bin/sh -c javac Module4.java # buildkit	599B	buildkit.dockerfile.v0
<missing>	41 minutes ago	COPY . . # buildkit	1.29kB	buildkit.dockerfile.v0
<missing>	46 minutes ago	WORKDIR /var/www/java	0B	buildkit.dockerfile.v0
<missing>	2 years ago	/bin/sh -c #(nop) CMD ["jshell"]	0B	
<missing>	2 years ago	/bin/sh -c set -eux; arch="\$(dpkg --print-...	322MB	
<missing>	2 years ago	/bin/sh -c #(nop) ENV JAVA_VERSION=17.0.2	0B	
<missing>	2 years ago	/bin/sh -c #(nop) ENV LANG=C.UTF-8	0B	
<missing>	2 years ago	/bin/sh -c #(nop) ENV PATH=/usr/local/openj...	0B	
<missing>	2 years ago	/bin/sh -c #(nop) ENV JAVA_HOME=/usr/local/...	0B	
<missing>	2 years ago	/bin/sh -c set -eux; apt-get update; apt-g...	4.88MB	
<missing>	2 years ago	/bin/sh -c #(nop) CMD ["bash"]	0B	
<missing>	2 years ago	/bin/sh -c #(nop) ADD file:8b1e79f91081eb527...	80.4MB	