/\* Getting available version of Node JS \*/

PS C:\Users\HP> node --version v18.15.0

/\* Getting available version of Docker \*/

PS C:\Users\HP> docker --version Docker version 20.10.24, build 297e128

/\* Using folder WADL\_Assignment\_2B \*/

PS C:\Users\HP> cd WADL\_Assignment\_2B

/\* Displaying data from app.js file \*/

PS C:\Users\HP\WADL\_Assignment\_2B> node app.js Hello, I am Srushti Bhoite This is my First Application

/\* Pulling node from the docker repository

PS C:\Users\HP\WADL\_Assignment\_2B> docker pull node

Using default tag: latest

latest: Pulling from library/node b0248cf3e63c: Pull complete 127e97b4daf7: Pull complete 0336c50c9f69: Pull complete 1b89f3c7f7da: Pull complete 2d6277217976: Pull complete 9b293df1e1ca: Pull complete e6d1f4eea98c: Pull complete c0a4027ccc92: Pull complete 14648abcbebd: Pull complete

Status: Downloaded newer image for node:latest

docker.io/library/node:latest

/\* Checking the images present in docker file and here "node" is appearing as an image \*/

PS C:\Users\HP\WADL\_Assignment\_2B> docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
node latest 5bb57e984682 3 days ago 999MB

```
/* Building a docker image with name firstdocker. Here, -t is for tagging the name */
PS C:\Users\HP\WADL Assignment 2B> docker image build -t firstdocker.
[+] Building 5.9s (7/7) FINISHED
=> [internal] load build definition from Dockerfile
0.1s
=> => transferring dockerfile: 102B
=> => transferring context: 2B
0.0s
=> [internal] load metadata for docker.io/library/node:alpine
4.9s
=> [internal] load build context
0.0s
=> CACHED [1/2] FROM
docker.io/library/node:alpine@sha256:53741c7511b1836b5eb7e788a7b399c058b0b549f205d2c6af831
ec1a9a81c
             0.0s
=> [2/2] COPY . /app
0.1s
=> exporting to image
0.2s
=> => exporting layers
0.1s
=> => writing image
sha256:4a58944710ae907c0312a397ef94bac0bc70cca00936ae1cfe49cbbbd1e5b147
                                                                                      0.0s
=> => naming to docker.io/library/firstdocker
/* Building a docker image with name "docker/getting-started". Here, -t is for tagging the name */
PS C:\Users\HP\WADL_Assignment_2B> docker image build -t docker/getting-started.
[+] Building 10.5s (8/8) FINISHED
=> [internal] load build definition from Dockerfile
  0.0s
=> => transferring dockerfile: 103B
  0.0s
=> [internal] load .dockerignore
=> [internal] load metadata for docker.io/library/node:alpine
  10.4s
=> [auth] library/node:pull token for registry-1.docker.io
=> [internal] load build context
                                                                                             0.0s
=> => transferring context: 128B
  0.0s
```

## => [1/2] FROM

docker.io/library/node:alpine@sha256:53741c7511b1836b5eb7e788a7b399c058b0b549f205d2c6af831ec1a9a81c31 0.0s

=> CACHED [2/2] COPY . /app

0.0s

=> exporting to image

0.0s

=> => exporting layers

0.0s

=> => writing image

sha256:5fcb1c290b8f87248a25702140c3e0b20c1c905fe156992ecfa7d37a76a9eef5 0.0s

=> => naming to docker.io/docker/getting-started

/\* Checking the images present in docker file and here "firstdocker" and "docker/getting-started" is appearing as an image \*/

PS C:\Users\HP\WADL\_Assignment\_2B> docker images

REPOSITORY	TAG	<b>IMAGE ID</b>	CREATED	SIZE
firstdocker	latest	4a58944710ae	2 hours ago	176MB
node	latest	5bb57e984682	3 days ago	999MB
docker/getting-started	latest	3e4394f6b72f	3 months ago	47MB

/\* Here we check the login credentials. we first need to login through the docker desktop to the web. We need to login to the hub.

PS C:\Users\HP\WADL\_Assignment\_2B> docker login

Authenticating with existing credentials...

Login Succeeded

Logging in with your password grants your terminal complete access to your account.

/\* Push an image or a repository to a registry \*/

PS C:\Users\HP\WADL\_Assignment\_2B> docker tag firstdocker wadl\_assignment\_2bPS

C:\Users\HP\WADL\_Assignment\_2B> docker push wadl\_assignment\_2b

Using default tag: latest

The push refers to repository [docker.io/wadl\_assignment\_2b]

63b8a2840ebe: Pushed 965d9c709b97: Pushed 36ba3d19b3d2: Pushed 601c47069c33: Pushed f1417ff83b31: Pushed

latest: digest: sha256:5bf54922ba86c548eb2716fa21fb09f1dc7ae227e8a86c3c90746691400acd24 size:

1365

/\* Pull an image or repository from a registry \*/ PS C:\Users\HP\WADL Assignment 2B> docker pull wadl assignment 2bUsing default tag: latest latest: Pulling from wadl\_assignment\_2b Digest: sha256:5bf54922ba86c548eb2716fa21fb09f1dc7ae227e8a86c3c90746691400acd24 Status: Image is up to date for wadl\_assignment\_2b:latest docker.io/ wadl assignment 2b:latest /\* Running the image " wadl\_assignment\_2b" as a container \*/ PS C:\Users\HP\WADL\_Assignment\_2B> docker run -d -p 80:80 wadl\_assignment\_2b 558021cddebd03aef8a350b56fc2e97c1eb4dbf5eeae0e611c7b2648f53a5836 /\* Running the image "docker/getting-started" as a container \*/ PS C:\Users\HP\WADL\_Assignment\_2B> docker run -d -p 80:80 docker/getting-started 3a231244102f6d2e4c95495329873ea0f5c5963826c479a961baa091f316c7f1 2023-04-16 03:05:12 /docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration 2023-04-16 03:05:12 /docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/ 2023-04-16 03:05:12 /docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh 2023-04-16 03:05:12 10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf 2023-04-16 03:05:12 10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf 2023-04-16 03:05:12 /docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh 2023-04-16 03:05:12 /docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh 2023-04-16 03:05:12 /docker-entrypoint.sh: Configuration complete; ready for start up 2023-04-16 03:05:12 2023/04/15 21:35:12 [notice] 1#1: using the "epoll" event method 2023-04-16 03:05:12 2023/04/15 21:35:12 [notice] 1#1: nginx/1.23.3 2023-04-16 03:05:12 2023/04/15 21:35:12 [notice] 1#1: built by gcc 12.2.1 20220924 (Alpine 12.2.1\_git20220924-r4) 2023-04-16 03:05:12 2023/04/15 21:35:12 [notice] 1#1: OS: Linux 5.10.16.3-microsoft-standard-WSL2 2023-04-16 03:05:12 2023/04/15 21:35:12 [notice] 1#1: getrlimit(RLIMIT\_NOFILE): 1048576:1048576

2023-04-16 03:05:12 2023/04/15 21:35:12 [notice] 1#1: start worker processes 2023-04-16 03:05:12 2023/04/15 21:35:12 [notice] 1#1: start worker process 30

```
2023-04-16 03:05:12 2023/04/15 21:35:12 [notice] 1#1: start worker process 31
2023-04-16 03:05:12 2023/04/15 21:35:12 [notice] 1#1: start worker process 32
2023-04-16 03:05:12 2023/04/15 21:35:12 [notice] 1#1: start worker process 33
2023-04-16 03:05:12 2023/04/15 21:35:12 [notice] 1#1: start worker process 34
2023-04-16 03:05:12 2023/04/15 21:35:12 [notice] 1#1: start worker process 35
2023-04-16 03:05:12 2023/04/15 21:35:12 [notice] 1#1: start worker process 36
2023-04-16 03:05:12 2023/04/15 21:35:12 [notice] 1#1: start worker process 37
/* Using Docker --help Command */
PS C:\Users\HP\WADL_Assignment_2B> docker --help
Usage: docker [OPTIONS] COMMAND
A self-sufficient runtime for containers
Options:
   --config string
                     Location of client config files (default
                 "C:\\Users\\HP\\.docker")
 -c, --context string Name of the context to use to connect to the
                daemon (overrides DOCKER HOST env var and
                default context set with "docker context use")
 -D, --debug
                     Enable debug mode
 -H, --host list
                    Daemon socket(s) to connect to
 -l, --log-level string Set the logging level
                ("debug"|"info"|"warn"|"error"|"fatal")
                (default "info")
   --tls
                 Use TLS; implied by --tlsverify
   --tlscacert string Trust certs signed only by this CA (default
                "C:\\Users\\HP\\.docker\\ca.pem")
   --tlscert string
                    Path to TLS certificate file (default
                "C:\\Users\\HP\\.docker\\cert.pem")
   --tlskey string
                    Path to TLS key file (default
                "C:\\Users\\HP\\.docker\\key.pem")
                   Use TLS and verify the remote
   --tlsverify
 -v, --version
                    Print version information and quit
Management Commands:
 builder
           Manage builds
 buildx*
           Docker Buildx (Docker Inc., v0.10.4)
             Docker Compose (Docker Inc., v2.17.2)
 compose*
 config
           Manage Docker configs
 container Manage containers
           Manage contexts
 context
 dev*
          Docker Dev Environments (Docker Inc., v0.1.0)
 extension* Manages Docker extensions (Docker Inc., v0.2.19)
```

image Manage images

init\* Creates Docker-related starter files for your project (Docker Inc., v0.1.0-beta.2)

manifest Manage Docker image manifests and manifest lists

Manage networks network Manage Swarm nodes node plugin Manage plugins

sbom\* View the packaged-based Software Bill Of Materials (SBOM) for an image (Anchore Inc.,

0.6.0)

scan\* Docker Scan (Docker Inc., v0.25.0)

Command line tool for Docker Scout (Docker Inc., v0.9.0) scout\*

Manage Docker secrets secret Manage services service Manage Docker stacks stack Manage Swarm swarm Manage Docker

Manage trust on Docker images trust

volume Manage volumes

## Commands:

system

attach Attach local standard input, output, and error streams to a running container

build Build an image from a Dockerfile

Create a new image from a container's changes commit

ср Copy files/folders between a container and the local filesystem

Create a new container create

diff Inspect changes to files or directories on a container's filesystem

Get real time events from the server events

List images images

import Import the contents from a tarball to create a filesystem image

Log in to a Docker registry login Log out from a Docker registry logout logs Fetch the logs of a container

List containers ps

Pull an image or a repository from a registry pull Push an image or a repository to a registry push

Rename a container rename

Run a command in a new container run

Save one or more images to a tar archive (streamed to STDOUT by default) save

Start one or more stopped containers start Stop one or more running containers stop

Create a tag TARGET\_IMAGE that refers to SOURCE\_IMAGE tag

Display the running processes of a container top

Run 'docker COMMAND --help' for more information on a command.