Docker ex1

Tuesday, October 31, 2023 8:57 PM

Build frontend docker image: In the root folder, run the following command:

```
docker build ./frontend-t frontend
.edang@VNLAP03337:~/MyDockerImages$ cd $Home
    edang@VNLAP03337:~$ mkdir dockerlearn
edang@VNLAP03337:~$ cd dockerlearn
edang@VNLAP03337:~\dockerlearn$ git clone https://github.com/nashtech-garage/kubernetes
Ledang@VNLAP03337:~/dockerlearn$ git clone https://github.com/nasht.lloning into 'kubernetes'...
remote: Enumerating objects: 138, done.
remote: Counting objects: 100% (138/138), done.
remote: Compressing objects: 100% (96/96), done.
remote: Total 138 (delta 50), reused 119 (delta 31), pack-reused 0
Receiving objects: 100% (138/138), 3.61 MiB | 754.00 KiB/s, done.
Resolving deltas: 100% (50/50), done.
Ledang@VNLAP03337:~/dockerlearn$ cd src
-bash: cd: src: No such file or directory
Ledang@VNLAP03337:~/dockerlearn$ dir
Rubernetes
  ubernetes
                           AP03337:~/dockerlearn$ cd kubenetes/src
  ·bash: cd: kubenetes/src: No such file or directory
    edang@VNLAP03337:~/dockerlearn$ cd kubernetes
edang@VNLAP03337:~/dockerlearn/kubernetes$ cd src
edang@VNLAP03337:~/dockerlearn/kubernetes/src$ docker build ./frontend -t frontend
   +] Building 151.4s (11/11) FINISHED
                                                                                                                                                                                                                                                      docker:default
```

=> [internal] load build context	0.1s
=> => transferring context: 74.76kB	0.0s
=> [2/6] WORKDIR /usr/src/app	3.3s
=> [3/6] COPY package.json /usr/src/app/package.json	0.1s
=> [4/6] COPY package-lock.json /usr/src/app/package-lock.json	0.2s
=> [5/6] RUN npm ci	11.3s
=> [6/6] COPY . /usr/src/app	0.1s
=> exporting to image	0.8s
=> => exporting layers	0.8s
=> => writing image sha256:ac78c2068eacbc02eb4096919ed505a082ed4ad58a089f30b704706239772435	0.0s
=> => naming to docker.io/library/backend	0.0s
ledang@VNLAP03337:~/dockerlearn/kubernetes/src\$	

• Build backend docker image: In the root folder, run the following command:

docker build ./ backerid -t backerid	
ledang@VNLAP03337:~/dockerlearn/kubernetes/src\$ docker build ./frontend -t frontend	
[+] Building 151.4s (11/11) FINISHED	docker:default
=> [internal] load build definition from Dockerfile	0.1s
=> => transferring dockerfile: 936B	0.0s
=> [internal] load .dockerignore	0.1s
[+] Building 12.7s (4/10)	docker:default
=> [internal] load .dockerignore	0.1s

=> [internal] load build context	0.1s
=> => transferring context: 74.76kB	0.0s
=> [2/6] WORKDIR /usr/src/app	3.3s
=> [3/6] COPY package.json /usr/src/app/package.json	0.1s
=> [4/6] COPY package-lock.json /usr/src/app/package-lock.json	0.2s
=> [5/6] RUN npm ci	11.3s
=> [6/6] COPY . /usr/src/app	0.1s
=> exporting to image	0.8s
=> => exporting layers	0.8s
=> => writing image sha256:ac78c2068eacbc02eb4096919ed505a082ed4ad58a089f30b704706239772435	0.0s
=> => naming to docker.io/library/backend	0.0s

• Verify the docker images:

Run the command to verify the docker images

C	ocker image Is					
	ledang@VNLAP REPOSITORY	03337:~/dockerlearn/k	cubernetes/src\$ docker image ls	TAG	IM	
	AGE ID	CREATED	SIZE			
	backend			latest	ac	
	78c2068eac	About a minute ago	297MB			
	frontend			latest	ОС	
	c274bf70e9	6 minutes ago	1.31GB			
	my_first_image					
	85c4353220	About an hour ago	123MB			
	vsc-mslearn-python-products-474ae4931fd093e5c5cbe2ef478386688952abf3a5dda8de1250229a44587784-uid latest 3					
	d35f68872d	21 hours ago	1.51GB			
	ubuntu			latest	e4	
	c58958181a	3 weeks ago	77.8MB			
	hello-world			latest	9c	
	7a54a9a43c	5 months ago	13.3kB			
	ledang@VNLAP	03337:~/dockerlearn/	(ubernetes/src\$			
					_	

• Start the application :

In the root folder, Run the command to start the application

sudo apt install docker-compose

docker-compose up

```
netes/src$ docker-compose up
  Command 'docker-compose' not found, but can be installed with:
  sudo apt install docker-compose
                     3337:~/dockerlearn/kubernetes/src$ sudo apt install docker-compose
             LAP03337:~/dockerlearn/kubernetes/src$ docker-compose up
Creating network "src_express-mongo" with the default driver
• Verify the application :
# open browser to access application at URL: localhost:3000
                                                                                                                                                         × &
ledang@VNLAP03337: ~/dockerlearn/kubernetes/s
                                                                                                                                                                                JID: 8cacc2a9-bad8-4df1-ac34-f0014b7ab4f2 and options
                                                                            [conn2] index build: done building index _id_ on ns Todo
                                                                                                                                                                                           Q | 🖨 🖺 | 🗸 🕸
                 2023-10-31T14:08:07.049+0000 I INDEX
 App.todos
                   > my-app@0.1.0 start
                   > react-scripts start
                  Browserslist: caniuse-lite is outdated. Please ru
npx browserslist@latest --update-db
                                                                                            React App
                                                                                                                                    × +
                      Why you should do it regularly: https://github.
                                                                                           ← → C () localhost:3000
       end_1 | (node:35) [DEP_WEBPACK_DEV_SERVER_ON_AFTER_SETUP_
Trontend_1 | (NOUE:35) | DET_WEDFACK_DET_SERVER_ON_AFTER_SFOR
dleware' option is deprecated. Please use the 'setupMiddlewares
frontend_1 | (Noue:35) | DEP_WEBPACK_DEV_SERVER_ON_BEFORE_SETUP
iddleware' option is deprecated. Please use the 'setupMiddleware'
                                                                                                                                                                                                     Todos
                  Starting the development server...
                   Compiled successfully!
                                                                                                                                                                                                  No Todos to display
                   You can now view my-app in the browser.
                     Local: http://localhost:3000
On Your Network: http://172.19.0.3:3000
                   Note that the development build is not optimized.
                   To create a production build, use npm run build.
                  asset static/js/bundle.js 2.1 MiB [emitted] (name
asset index.html 1.67 KiB [emitted]
asset asset-manifest.json 190 bytes [emitted]
runtime modules 28.2 KiB 13 modules
                   modules by path ./node_modules/ 1.39 MiB 125 modules asset modules 4.4 KiB
Ctrl C to stop
Ctrl Ct ostop

^CGracefully stopping... (press Ctrl+C again to force)
Stopping src_frontend_1 ...
Stopping src_backend_1 ...
Stopping src_mongo_1 ...
Killing src_frontend_1 ... done
Killing src_backend_1 ... done
Killing src_mongo_1 ... done
Killing src_mongo_1 ... done
```

RROR: 2 edang@VNLAP03337:~/dockerlearn/kubernetes/src\$