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Div – 2

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Assignment no – 2(b)

Problem Statement - Create Docker Container Environment (NVIDEIA Docker or any other). a.js console.log("hello world!");

Dockerfile

```
FROM node:alpine
```

```
COPY . /cd CMD
```

```
node      /cd/a.js
```

Output:

The screenshot shows a Windows desktop environment with Visual Studio Code open. The code editor displays a Dockerfile with the following content:

```
FROM node:alpine
COPY . /cd
CMD node /cd/a.js
```

The terminal tab shows the execution of the Dockerfile and the creation of a new Docker image:

```
PS D:\View\folder\Desktop\ass28\partb> docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
partb latest 73e2b2c736ab 37 seconds ago 179MB
PS D:\View\folder\Desktop\ass28\partb> History refetch
PS D:\View\folder\Desktop\ass28\partb>
```

A tooltip in the bottom right corner of the terminal window suggests installing the Windows Subsystem for Linux (WSL) extension.

The screenshot shows a Windows desktop environment with Visual Studio Code open. The terminal window displays the following command and its execution:

```
PS D:\View folder\Desktop\ass20\part0 docker build -t parts .
[+] Building 7.4s (7/7) FINISHED
--> [internal] load build definition from Dockerfile 0.1s
--> << transferring dockerfile.wim 0.0s
--> [internal] load dockerfile.wim 0.1s
-->> << transferring context: 20 0.0s
--> [internal] load metadata for dockerfile.wim 0.0s
--> [internal] load build context 0.0s
-->> << transferring context: 2540 0.0s
--> [wif] resolve ref: sha256:node-alpine@sha256:0f334...
--> << resolving access to https://index.docker.io/v1/repositories/node-alpine/images/0f334...
--> << sha256:0f33420d133d40... 40.299s 63.8s
--> << sha256:2e0fa354023582... 2.898s 2.355s
--> << sha256:1d38773010ff9a4687... 1.430s 0.60s
--> << sha256:1ffccfca5a95fbcc... 1.158s 0.95s
--> << sha256:185d91a0a778... 0.480s 0.480s
--> << sha256:f59985fc226407ac... 3.170s 3.170s
--> << sha256:7c094c22d20ff97c13934510... 45.19s 19.39s
--> << sha256:7c094c22d20ff97c13934510@sha256:7c094c22d20ff97c13934510 0.0s
-->> << extracting sha256:7c094c22d20ff97c13934510@sha256:7c094c22d20ff97c13934510 0.1s
-->> << extracting sha256:7bc14a792d0f7f713720f... 0.0s
--> [2/2] COPIED /root 0.4s
--> << exporting to image 0.1s
--> << exporting layers 0.0s
--> << writing image sha256:740edc5a6a5a5d0... 0.0s
--> << naming to docker/tarlibrary/part0 0.0s
```

At the bottom of the terminal, it shows the command `PS D:\View folder\Desktop\ass20\part0 docker images` followed by a table of repository details.

REPOSITORY	IMAGE ID	LAST USED	CREATED	SIZE
parts	latest	7d863c76ab	37 seconds ago	179MB

The status bar at the bottom indicates the system is at 34°C, battery level is 84%, and the date/time is 04-05-2023 14:11.

The screenshot shows the Docker Desktop interface. On the left sidebar, there are links for Containers, Images, Volumes, Dev Environments (beta), Learning Center, Extensions (with one extension installed), and Add Extensions. The main area displays the details for the 'partb:latest' image, which was created less than a minute ago and is 1.79 MB in size. A note indicates that advanced image analysis is provided by Docker Scout (Early Access) and encourages upgrading for guided vulnerability remediation. Below this, the 'Image hierarchy' shows the image is based on 'alpine:3.17, 3.17.3, latest' and contains a single layer named 'partb:latest'. The 'Layers (11)' section lists the following layers:

Layer	Content	Size	Vulnerabilities
0	ADD file:9a4f77dfabaf7fd2aa78186e4ef0e7486ad...	7.05 MB	Yellow shield icon
1	CMD ["/bin/sh"]	0 B	Green shield icon
2	ENV NODE_VERSION=20.0.0	0 B	Green shield icon
3	addgroup -g 1000 node & adduser -u 1000 -G no...	164.37 MB	Green shield icon
4	ENV YARN_VERSION=1.22.19	0 B	Green shield icon
5	apk add --no-cache --virtual .build-deps yarn curl ...	7.77 MB	Green shield icon
6	COPY file:4d192565a7220e135cab6c77fbc1c732...	388 B	Green shield icon
7	ENTRYPOINT ["docker-entrypoint.sh"]	0 B	Green shield icon

The 'Vulnerabilities' tab is selected, showing 0 vulnerabilities found. The 'Packages (230)' tab is also present. At the bottom, the status bar shows RAM 3.38 GB, CPU 1.00%, Not connected to Hub, and system icons for battery (34°C), network, and system status.