

# Docker setup and Deployment Output Docs

## Output for Containerize an application – Part 1 and Part 2

```
Last login: Tue Jul 18 09:31:00 2023 from 86.40.54.57
meghana@MeghanaVM:~$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
meghana@MeghanaVM:~$ cd getting-started/app
meghana@MeghanaVM:~/getting-started/app$ docker build -t getting-started .
[+] Building 1.9s (9/9) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 150B
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load metadata for docker.io/library/node:18-alpine
=> [1/4] FROM docker.io/library/node:18-alpine
=> [internal] load build context
=> => transferring context: 449.57kB
=> CACHED [2/4] WORKDIR /app
=> CACHED [3/4] COPY . .
=> CACHED [4/4] RUN yarn install --production
=> exporting to image
=> => exporting layers
=> => writing image sha256:8dfd53b91aa949c19c467596270c294b2d88ff0572e7323b3b2e589ad5920aed
=> => naming to docker.io/library/getting-started
meghana@MeghanaVM:~/getting-started/app$ docker run -dp 8080:3000 getting-started
e76e0323cb82576d2692f708c4f520ea1983aff26764d77526ae03c99dd006da
```

## Output for update the application – Part 3 of 1

```
meghana@MeghanaVM:~/getting-started/app$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
e76e0323cb82   8dfd53b91aa9   "docker-entrypoint.s..." 26 minutes ago Up 26 minutes 0.0.0.0:8080->3000/tcp, :::8080->3000/tcp sleepy_robinson
4585df82b057   mysql:8.0      "docker-entrypoint.s..." 22 hours ago   Up 23 minutes 3306/tcp, 33060/tcp                app-mysql-1

meghana@MeghanaVM:~/getting-started/app$ docker stop
"docker stop" requires at least 1 argument.
See 'docker stop --help'.

Usage:  docker stop [OPTIONS] CONTAINER [CONTAINER...]

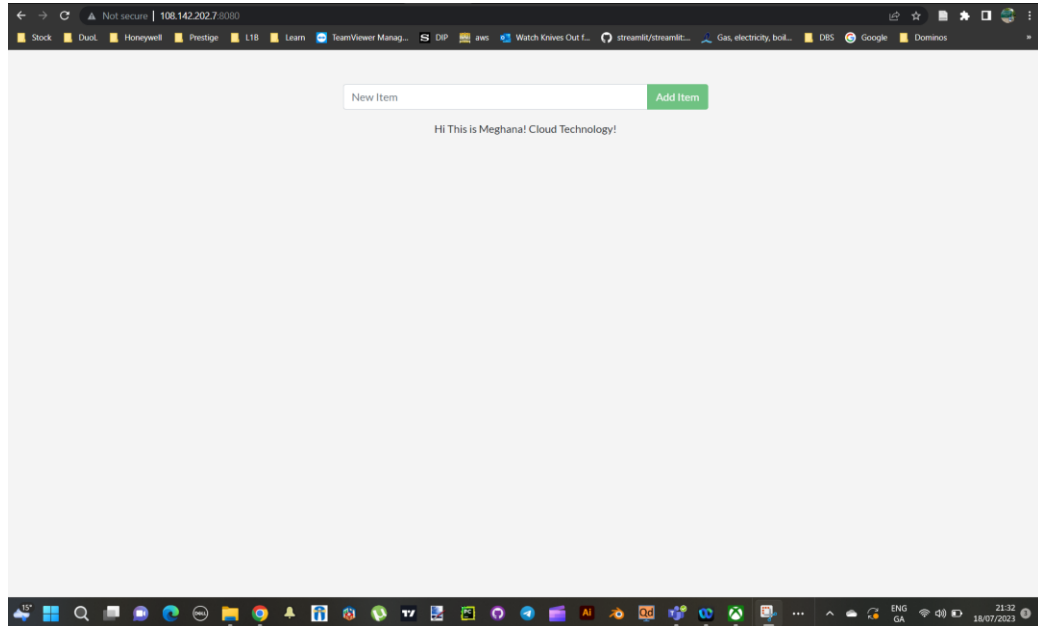
Stop one or more running containers
meghana@MeghanaVM:~/getting-started/app$ docker stop e76e0323cb82
e76e0323cb82
meghana@MeghanaVM:~/getting-started/app$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
4585df82b057   mysql:8.0      "docker-entrypoint.s..." 22 hours ago   Up 24 minutes 3306/tcp, 33060/tcp                app-mysql-1

meghana@MeghanaVM:~/getting-started/app$ docker build -t getting-started .
[+] Building 0.4s (9/9) FINISHED
=> [internal] load build definition from Dockerfile                                docker:default 0.0s
=> => transferring dockerfile: 150B                                              0.0s
=> [internal] load .dockerignore                                                  0.0s
=> => transferring context: 2B                                                    0.0s
=> [internal] load metadata for docker.io/library/node:18-alpine                 0.0s
=> [1/4] FROM docker.io/library/node:18-alpine                                  0.0s
=> [internal] load build context                                                  0.2s
=> => transferring context: 449.57kB                                              0.2s
=> CACHED [2/4] WORKDIR /app                                                      0.0s
=> CACHED [3/4] COPY . .                                                         0.0s
=> CACHED [4/4] RUN yarn install --production                                   0.0s
=> exporting to image                                                            0.0s
=> => exporting layers                                                            0.0s
=> => writing image sha256:784a07ae467095a5e19697d2d467d408bb01442058a98de9a1c6ec022ed20036 0.0s
=> => naming to docker.io/library/getting-started                               0.0s
meghana@MeghanaVM:~/getting-started/app$ docker run -dp 8080:3000 getting-started
cc9f47d143cbd4f5773752e67ba8c14c73a3f573b8e790108dee3e0de0799315
meghana@MeghanaVM:~/getting-started/app$ git pull
Already up to date.
meghana@MeghanaVM:~/getting-started/app$ Connection to 108.142.202.7 closed by remote host.
Connection to 108.142.202.7 closed.
```

## Output for update the application – Part 3 of 2 Contd...

```
meghana@MeghanaVM:~/getting-started/app$ git pull
remote: Enumerating objects: 13, done.
remote: Counting objects: 100% (13/13), done.
remote: Compressing objects: 100% (7/7), done.
remote: Total 7 (delta 6), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (7/7), 949 bytes | 79.00 KiB/s, done.
From github.com:20006309/Meghana
   ee7f0cc..3642671  main      -> origin/main
Updating ee7f0cc..3642671
Fast-forward
 app/src/static/js/app.js | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
meghana@MeghanaVM:~/getting-started/app$ docker build -t getting-started .
[+] Building 21.4s (9/9) FINISHED
=> [internal] load build definition from Dockerfile                                docker:default 0.0s
=> => transferring dockerfile: 150B                                              0.0s
=> [internal] load .dockerignore                                                  0.0s
=> => transferring context: 2B                                                    0.0s
=> [internal] load metadata for docker.io/library/node:18-alpine                0.0s
=> [1/4] FROM docker.io/library/node:18-alpine                                0.0s
=> [internal] load build context                                                  0.7s
=> => transferring context: 454.96kB                                             0.7s
=> CACHED [2/4] WORKDIR /app                                                    0.0s
=> [3/4] COPY . .                                                                7.2s
=> [4/4] RUN yarn install --production                                         10.1s
=> exporting to image                                                            3.2s
=> => exporting layers                                                            3.2s
=> => writing image sha256:784a07ae467095a5e19697d2d467d408bb01442058a98de9a1c6ec022ed20036 0.0s
=> => naming to docker.io/library/getting-started                             0.0s
```

## Output for update the application – Part 3 of 3

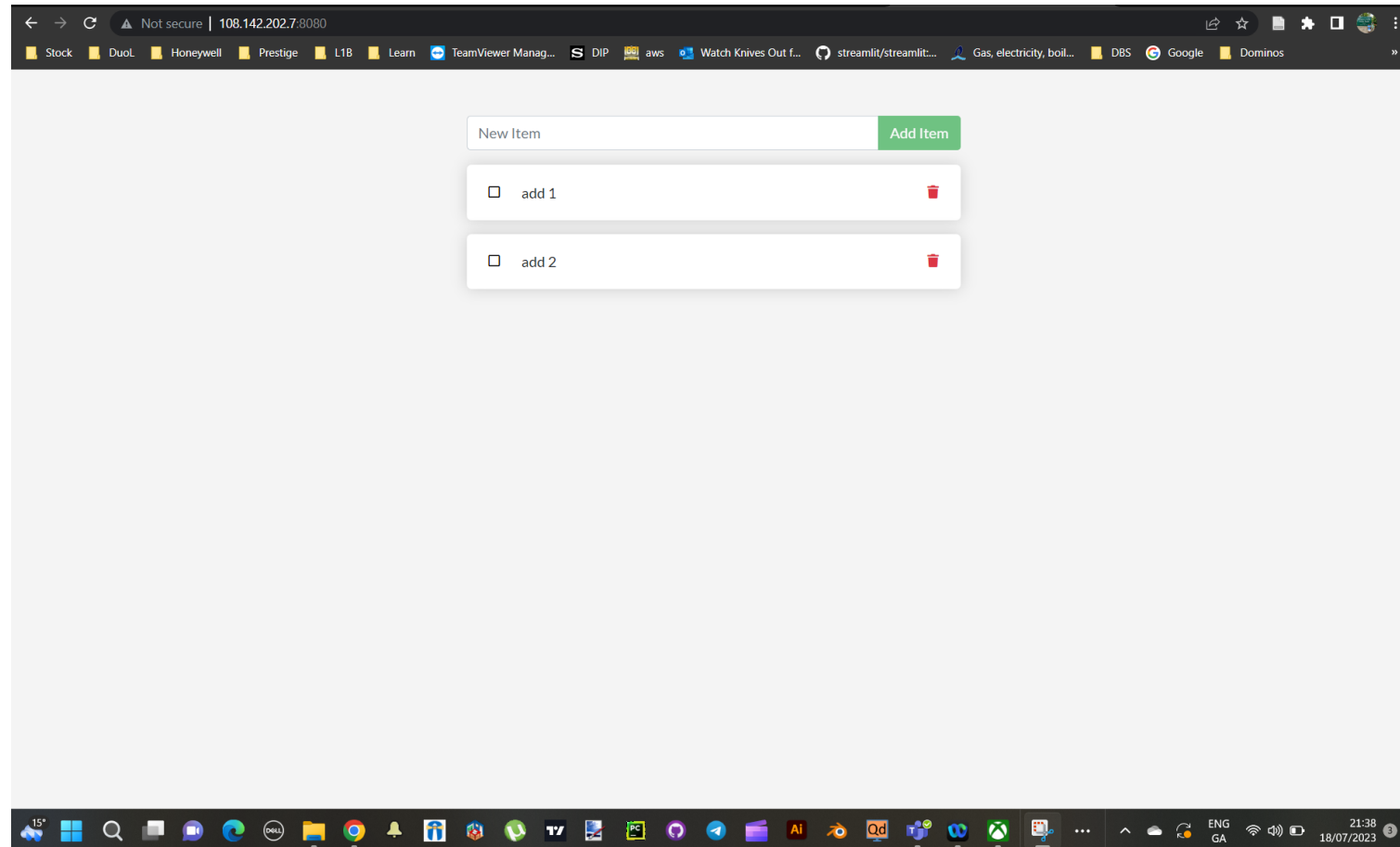


```
const index = items.findIndex(i => i.id === item.id);
setItems([...items.slice(0, index), ...items.slice(index + 1)]);
},
[items],
);

if (items === null) return 'Loading...';

return (
  <React.Fragment>
    <AddItemForm onNewItem={onNewItem} />
    {items.length === 0 && (
      <p className="text-center">Hi This is Meghana! Cloud Technology!</p>
    )}
    {items.map(item => (
      <ItemDisplay
        item={item}
        key={item.id}
        onItemUpdate={onItemUpdate}
        onItemRemoval={onItemRemoval}
      />
    ))}
  </React.Fragment>
);
}
```

## Outputs on Persist the DB –Part 5



## Outputs of Multi container apps –Part 6 and 7

```
meghana@MeghanaVM:~/getting-started/app$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
530ccfe423f9	node:18-alpine	"docker-entrypoint.s..."	3 minutes ago	Up 3 minutes	0.0.0.0:8080->3000/tcp, :::8080->3000/tcp	jolly_jones
0d64774bc622	mysql:8.0	"docker-entrypoint.s..."	6 minutes ago	Up 6 minutes	3306/tcp, 33060/tcp	recursing_booth

```
meghana@MeghanaVM:~/getting-started/app$ docker exec -it 0d64774bc622 mysql -p todos
```

Enter password:  
Reading table information for completion of table and column names  
You can turn off this feature to get a quicker startup with -A

Welcome to the MySQL monitor. Commands end with ; or \g.  
Your MySQL connection id is 11  
Server version: 8.0.33 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective  
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> select * from todo_items;
```

id	name	completed
209ba1d4-e419-4340-9e33-98d8571c3c77	add 1	0
b38ef3fc-07b2-443f-8120-bc92092b4edf	add 2	0

```
mysql>
```

2 rows in set (0.00 sec)

Not secure | 108.142.202.7:8080

DuoL Honeywell Prestige L1B Learn TeamViewer Manag... S DIP aws Watch Knives Out f... streamlit/streamlit... Gas, electricity, boil... DBS Google Dominos

☐ add 1

☐ add 2

## Outputs of Docker Compose -Step 8

```
meghana@MeghanaVM:~/getting-started/app$ sudo systemctl start apache2
meghana@MeghanaVM:~/getting-started/app$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
29e897ebdfde   mysql:8.0      "docker-entrypoint.s..." 2 minutes ago  Up 2 minutes  3306/tcp, 33060/tcp
                app-mysql-1
8b1646a6a081   node:18-alpine "docker-entrypoint.s..." 2 minutes ago  Up 2 minutes  0.0.0.0:8080->3000/tcp, :::8080->3000/tcp  app-app-1
meghana@MeghanaVM:~/getting-started/app$ docker stop 29e897ebdfde 8b1646a6a081
29e897ebdfde
8b1646a6a081
meghana@MeghanaVM:~/getting-started/app$ docker rm -f 29e897ebdfde 8b1646a6a081#
29e897ebdfde
Error response from daemon: No such container: 8b1646a6a081#
meghana@MeghanaVM:~/getting-started/app$ docker rm -f 29e897ebdfde 8b1646a6a081
Error response from daemon: No such container: 29e897ebdfde
8b1646a6a081
meghana@MeghanaVM:~/getting-started/app$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS        NAMES
meghana@MeghanaVM:~/getting-started/app$ docker compose up -d
[+] Running 2/2
  ✓ Container app-mysql-1   Started          0.6s
  ✓ Container app-app-1     Started          0.5s
meghana@MeghanaVM:~/getting-started/app$ docker compose up -d
[+] Running 2/0
  ✓ Container app-mysql-1   Running          0.0s
  ✓ Container app-app-1     Running          0.0s
meghana@MeghanaVM:~/getting-started/app$ Connection to 108.142.202.7 closed by remote host.
Connection to 108.142.202.7 closed.
PS C:\Users\megha>
```