Docker setup and Deployment Output Docs

Output for Containerize an application – Part 1 and Part 2

```
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                                                                                            docker:default
 => [internal] load build definition from Dockerfile                                                                                  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.
```
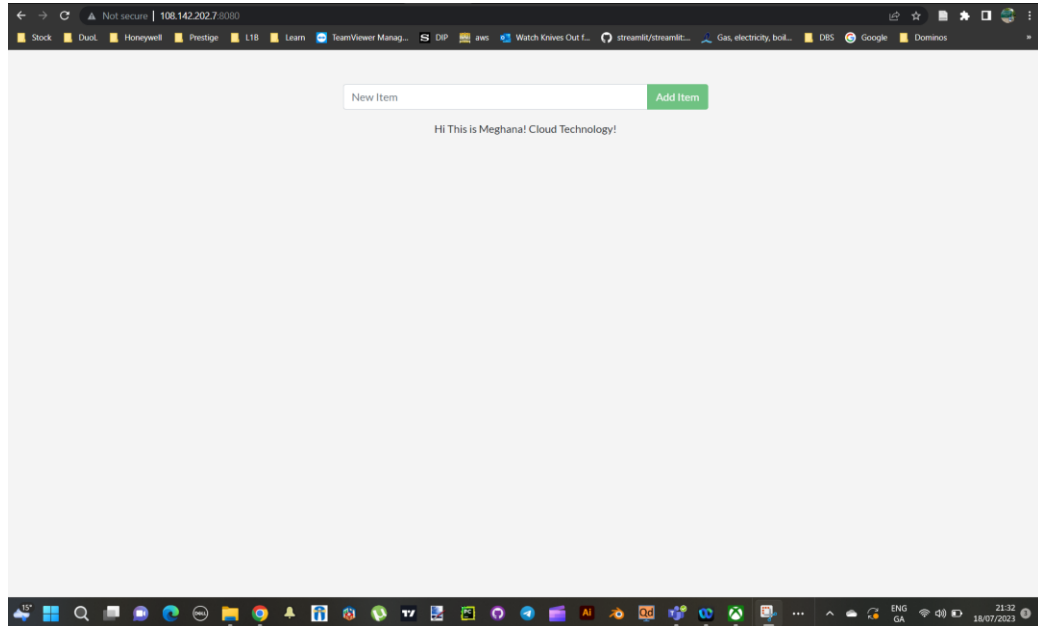
Output for update the application – Part 3 of 2 Contd…

```
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                                docker:default
 => [internal] load build definition from Dockerfile                      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
```
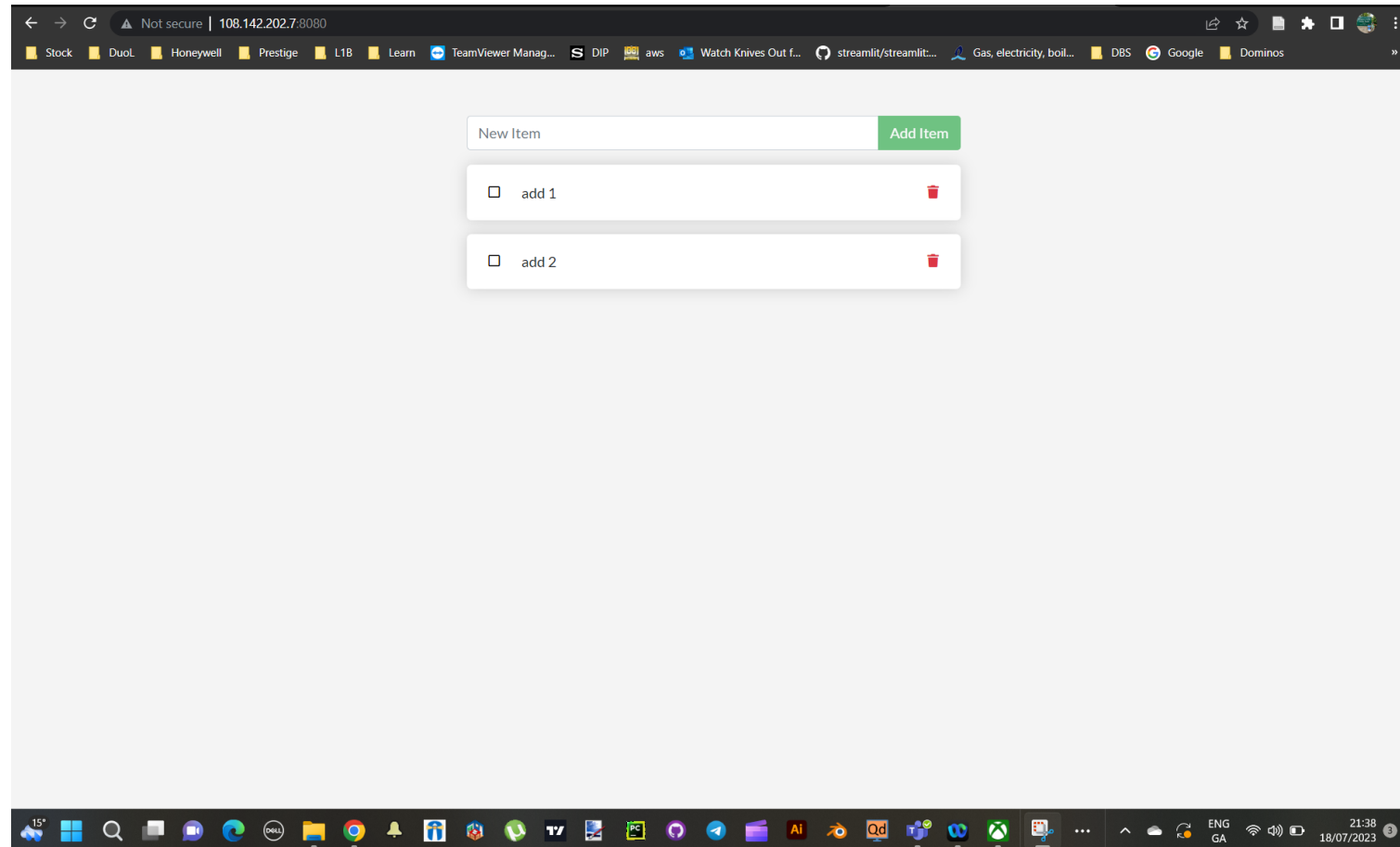
```
        const index = items.findIndex(i => i.id === item.id);
        setItems([...items.slice(0, index), ...items.slice(index + 1)]);
      },
      [items],
  );


  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

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
              NAMES
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>
```