

FLIGHT BOOKING APPLICATION

Prunes all the images(if required):

```
PS C:\Users\dayaa\OneDrive\Desktop\mern\sky\Docker> docker system prune
WARNING! This will remove:
- all stopped containers
- all networks not used by at least one container
- all dangling images
- all dangling build cache

Are you sure you want to continue? [y/N] y
Deleted build cache objects:
g0z3vf9ao8kpd543kft9aosul
qslhe500ir5yolhhojkrxrvf
gpckpmjcb13yzal4f0c6odtre
170hywfnltvah7s473aimaxhh
tnbk70wti0fk5gdt0zvb7t9io
sb2ghv7ehjhhesyuxjvzfjvsg
sth5bqpkmh9ug3s4jnap1ztro
v92oqtz9g8q0icm5zsg6qlt9j

Total reclaimed space: 3.347MB
PS C:\Users\dayaa\OneDrive\Desktop\mern\sky\Docker> █
```

Docker Build for all three images:

```
PS C:\Users\dayaa\OneDrive\Desktop\mern\sky\Docker> .\app.bat up --build -d
Creating network "docker_default" with the default driver
Building db-service1
[+] Building 3.5s (5/5) FINISHED
=> [internal] load build definition from Dockerfile                                0.1s
=> => transferring dockerfile: 47B                                              0.0s
=> [internal] load .dockerignore                                                  0.1s
=> => transferring context: 2B                                                  0.0s
=> [internal] load metadata for docker.io/library/mongo:latest                  3.3s
=> CACHED [1/1] FROM docker.io/library/mongo@sha256:50d8918de7b076feceb9ba1ee264afd5f67fb4baaff07949f3b9de92cdca79c2 0.0s
=> exporting to image                                                            0.1s
=> => exporting layers                                                            0.0s
=> => writing image sha256:9ae9aaa6445e2b795d61907c2ce629df7975bfa774f9fdb0fec80b6ba843ed57 0.0s
=> => naming to docker.io/library/docker_db-service1                          0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
Building node_backend
[+] Building 3.6s (10/10) FINISHED
=> [internal] load build definition from Dockerfile                                0.1s
=> => transferring dockerfile: 151B                                              0.0s
=> [internal] load build context                                                  0.1s
=> => transferring context: 63.82kB                                             0.0s
=> CACHED [2/5] WORKDIR /app                                                      0.0s
=> CACHED [3/5] COPY package.json /app                                           0.0s
=> CACHED [4/5] RUN npm install                                                    0.0s
=> CACHED [5/5] COPY ./src /app                                                  0.0s
=> exporting to image                                                            0.1s
=> => exporting layers                                                            0.0s
=> => writing image sha256:33bfe47d41c77a756835f8578979628a41597f9e918059a34a05f65a8be028c7 0.0s
=> => naming to docker.io/library/docker_node_backend                          0.0s
```

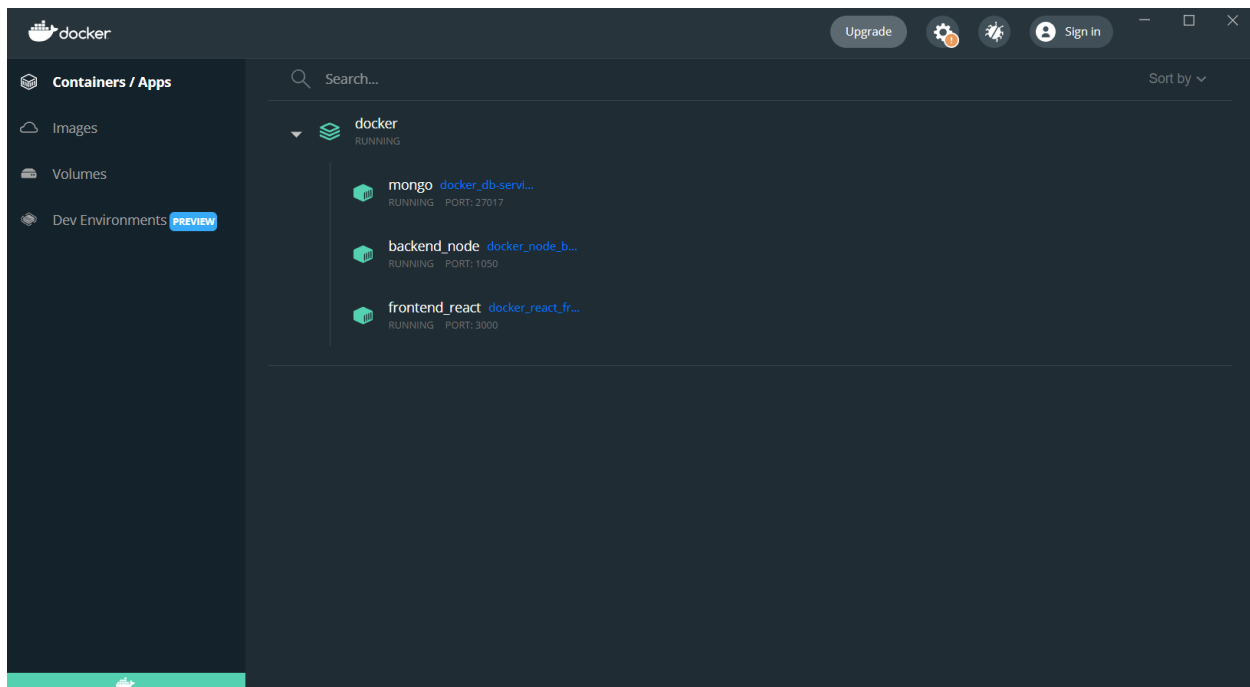
```

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
Building react frontend
[+] Building 1.6s (10/10) FINISHED
=> [internal] load build definition from Dockerfile                                0.1s
=> => transferring dockerfile: 158B                                              0.0s
=> [internal] load .dockerignore                                                 0.1s
=> => transferring context: 2B                                                  0.0s
=> [internal] load metadata for docker.io/library/node:17-alpine                1.1s
=> [internal] load build context                                                0.2s
=> => transferring context: 3.29MB                                              0.2s
=> [1/5] FROM docker.io/library/node:17-alpine@sha256:f61706c2cb120c06cf4fdcf60a2822a804b0bd90b6b2209be1ee00db1d33130c  0.0s
=> CACHED [2/5] WORKDIR /app                                                    0.0s
=> CACHED [3/5] COPY package.json .                                             0.0s
=> CACHED [4/5] RUN npm install                                                  0.0s
=> CACHED [5/5] COPY . .                                                        0.0s
=> exporting to image                                                          0.0s
=> => exporting layers                                                          0.0s
=> => writing image sha256:56f5fdca275c178ac2092d153860be2efe03f44b52b5610846f5aa433d5d7df9 0.0s
=> => naming to docker.io/library/docker_react_frontend                       0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
Creating mongo ... done
Creating backend_node ... done
Creating frontend_react ... done
PS C:\Users\dayaa\OneDrive\Desktop\mern\sky\docker>

```

Docker Application:



List the Docker Images:

```

PS C:\Users\dayaa\OneDrive\Desktop\mern\sky\docker> docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
docker_react_frontend latest             56f5fdca275c       18 minutes ago     362MB
docker_node_backend latest             33bfe47d41c7       2 hours ago        950MB
docker_db-service1 latest             9ae9aaa6445e       6 days ago         690MB

PS C:\Users\dayaa\OneDrive\Desktop\mern\sky\docker> docker ps -a
CONTAINER ID   IMAGE                  COMMAND                  CREATED             STATUS              PORTS                               NAMES
929d21172c41  docker_react_frontend "docker-entrypoint.s..." 4 minutes ago       Up About a minute   0.0.0.0:3000->3000/tcp             frontend_react
cbc475cb6260  docker_node_backend  "docker-entrypoint.s..." 4 minutes ago       Up About a minute   1050/tcp, 0.0.0.0:1050->3000/tcp   backend_node
bda991918395  docker_db-service1   "docker-entrypoint.s..." 4 minutes ago       Up About a minute   0.0.0.0:27017->27017/tcp           mongo

```

To get access to Node Runtime Container Terminal:

```
PS C:\Users\dayaa\OneDrive\Desktop\mern\sky\Docker> docker ps -a
CONTAINER ID   IMAGE                COMMAND                  CREATED        STATUS        PORTS                               NAMES
929d21172c41   docker_react_frontend "docker-entrypoint.s..." 4 minutes ago  Up About a minute  0.0.0.0:3000->3000/tcp            frontend_react
cbc475cb6260   docker_node_backend  "docker-entrypoint.s..." 4 minutes ago  Up About a minute  1050/tcp, 0.0.0.0:1050->3000/tcp  backend_node
bda991918395   docker_db-service1  "docker-entrypoint.s..." 4 minutes ago  Up About a minute  0.0.0.0:27017->27017/tcp         mongo
PS C:\Users\dayaa\OneDrive\Desktop\mern\sky\Docker> docker exec -it cbc475cb6260 bash
root@cbc475cb6260:/app# node --version
v10.24.1
root@cbc475cb6260:/app#
```

To get access to React Front-end Container Terminal:

```
PS C:\Users\dayaa\OneDrive\Desktop\mern\sky\Docker> docker ps -a
CONTAINER ID   IMAGE                COMMAND                  CREATED        STATUS        PORTS                               NAMES
929d21172c41   docker_react_frontend "docker-entrypoint.s..." 7 minutes ago  Up 4 minutes  0.0.0.0:3000->3000/tcp            frontend_react
cbc475cb6260   docker_node_backend  "docker-entrypoint.s..." 7 minutes ago  Up 4 minutes  1050/tcp, 0.0.0.0:1050->3000/tcp  backend_node
bda991918395   docker_db-service1  "docker-entrypoint.s..." 7 minutes ago  Up 4 minutes  0.0.0.0:27017->27017/tcp         mongo
PS C:\Users\dayaa\OneDrive\Desktop\mern\sky\Docker> docker exec -it 929d21172c41 /bin/sh
/app # node --version
v17.9.0
/app #
```

To get access to Mongo Back-End Container Terminal:

```
PS C:\Users\dayaa\OneDrive\Desktop\mern\sky\Docker> docker ps -a
CONTAINER ID   IMAGE                COMMAND                  CREATED        STATUS        PORTS                               NAMES
929d21172c41   docker_react_frontend "docker-entrypoint.s..." 6 minutes ago  Up 3 minutes  0.0.0.0:3000->3000/tcp            frontend_re
act
cbc475cb6260   docker_node_backend  "docker-entrypoint.s..." 6 minutes ago  Up 3 minutes  1050/tcp, 0.0.0.0:1050->3000/tcp  backend_nod
e
bda991918395   docker_db-service1  "docker-entrypoint.s..." 6 minutes ago  Up 3 minutes  0.0.0.0:27017->27017/tcp         mongo
PS C:\Users\dayaa\OneDrive\Desktop\mern\sky\Docker> docker exec -it bda991918395 bash
root@bda991918395:/# mongo --version
MongoDB shell version v5.0.8
Build Info: {
  "version": "5.0.8",
  "gitVersion": "c87e1c23421bf79614baf500fda6622bd90f674e",
  "opensslVersion": "OpenSSL 1.1.1f  31 Mar 2020",
  "modules": [],
  "allocator": "tcmalloc",
  "environment": {
    "distmod": "ubuntu2004",
    "distarch": "x86_64",
    "target_arch": "x86_64"
  }
}
root@bda991918395:/#
```

Browser Webpage:

Sky Tracks Airlines

localhost:3000

Book Flight View Booking Details

Origin
Mumbai

Destination
Bangalore

Departure Date
31-05-2022

No Of Tickets
2

View Flights

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Sky Tracks

Insertion Successfull

Book Flight View Booking Details

2022-05-31
Departure Date

mumbai - bangalore
Origin - Destination

2 Adult(s)
Passengers

Available Flights:

Go Back

09:00-11:30 Non Stop	GO-101 Flight ID	2234 Fare per seat	Total Fare: ₹4468 Add Passenger Details
04:00-07:00 Non Stop	UA-323 Flight ID	2100 Fare per seat	Total Fare: ₹4200 Add Passenger Details
12:00-14:30 Non Stop	SJ-432 Flight ID	3400 Fare per seat	Total Fare: ₹6800 Add Passenger Details
18:00-20:30 Non Stop	GI-427 Flight ID	4200 Fare per seat	Total Fare: ₹8400 Add Passenger Details
00:30-02:00 Non Stop	GI-439 Flight ID	2300 Fare per seat	Total Fare: ₹4600 Add Passenger Details

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