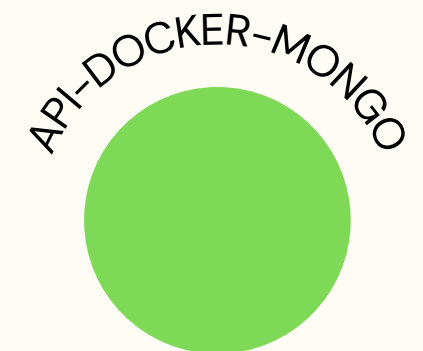




Securely Package and Deploy your APIs with Docker and Docker Compose.

Talk by
Pradumna Saraf

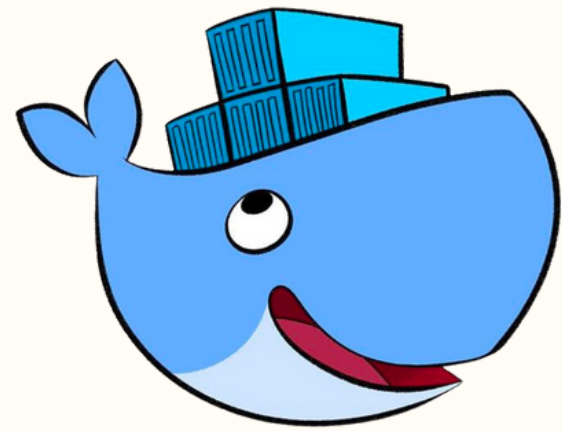


Who am I?



Pradumna Saraf

- ▶ DevOps and Go Developer
- ▶ Open Source Evangelism
- ▶ Postman Student Leader
- ▶ Create Content



Why Docker?

WORKS ON MY MACHINE





Software
Dependencies

Inconsistent
Environment

Scalability

Isolation

Security

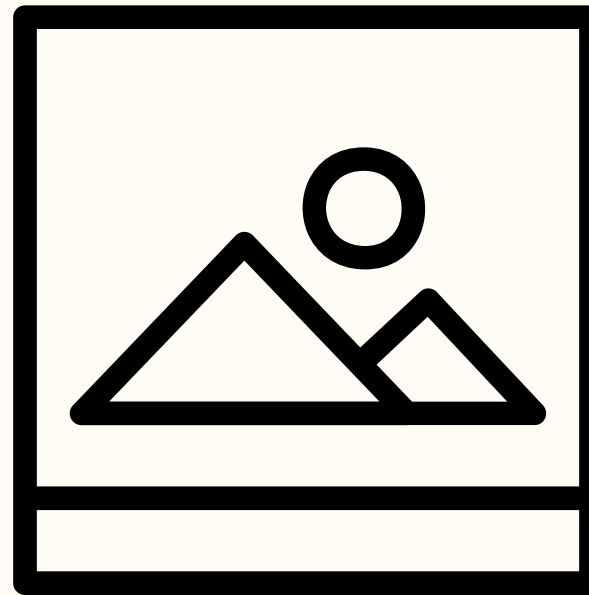
Portability

What specific
problem does
Docker solve?

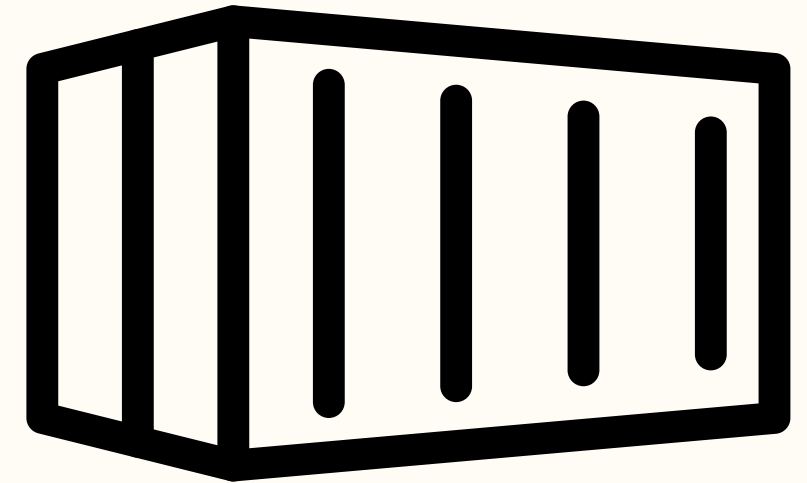
Components



Dockerfile

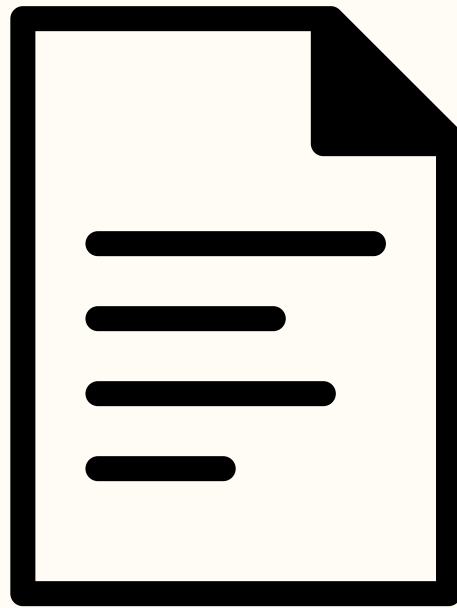


Docker Image

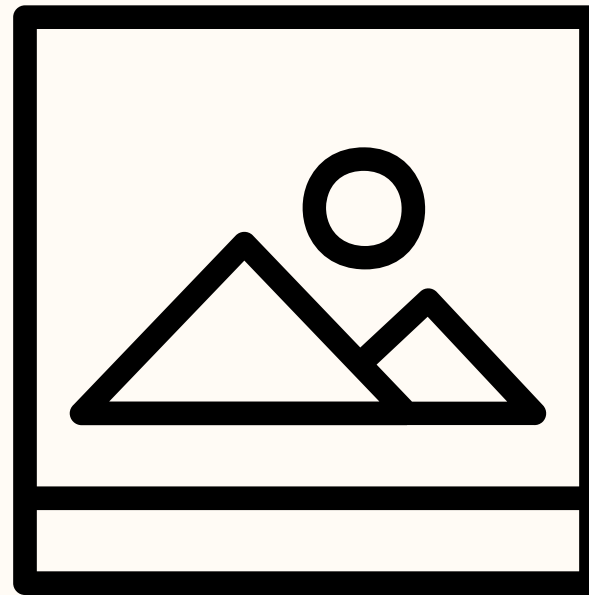


Container

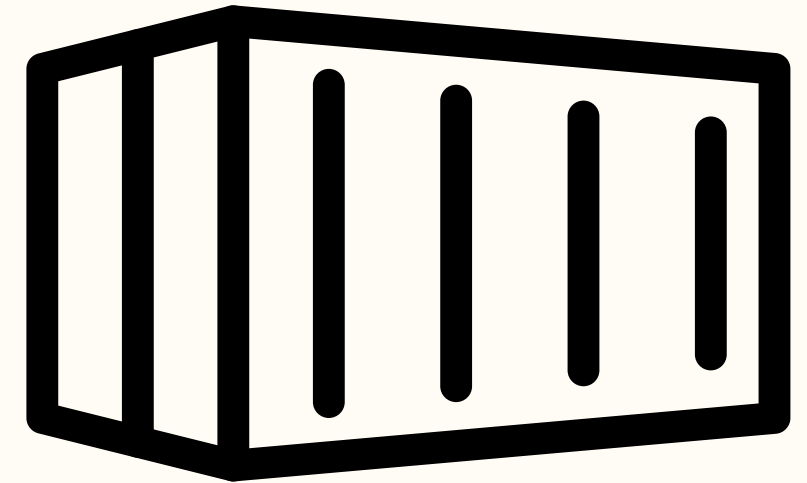
Components



Dockerfile



Docker Image

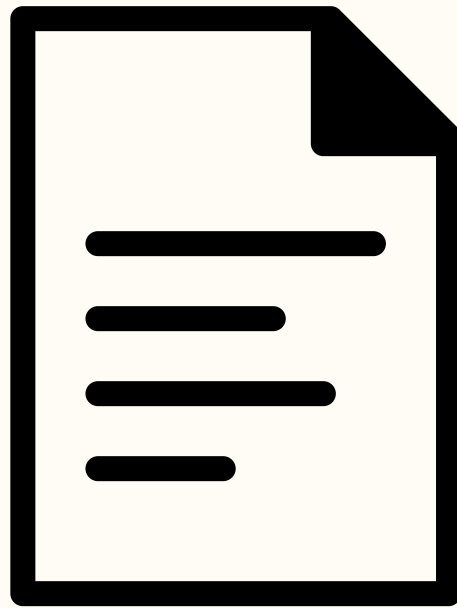


Container

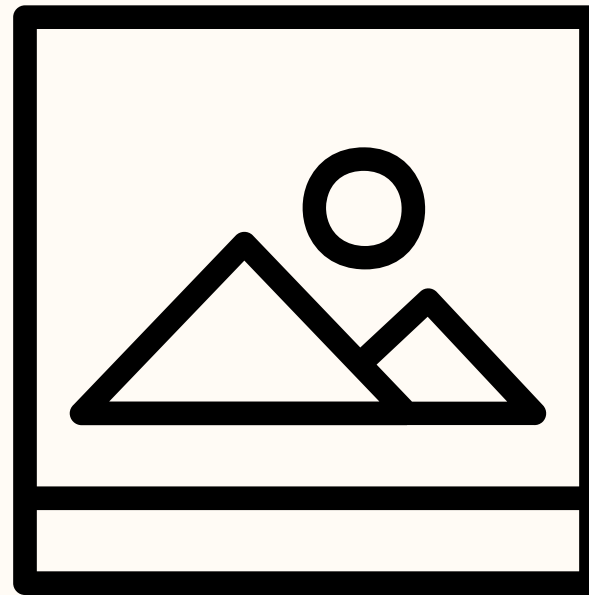


```
FROM node:16-alpine
WORKDIR /app
COPY package.json ./
RUN npm install
COPY . .
EXPOSE 3000
CMD ["npm", "start"]
```

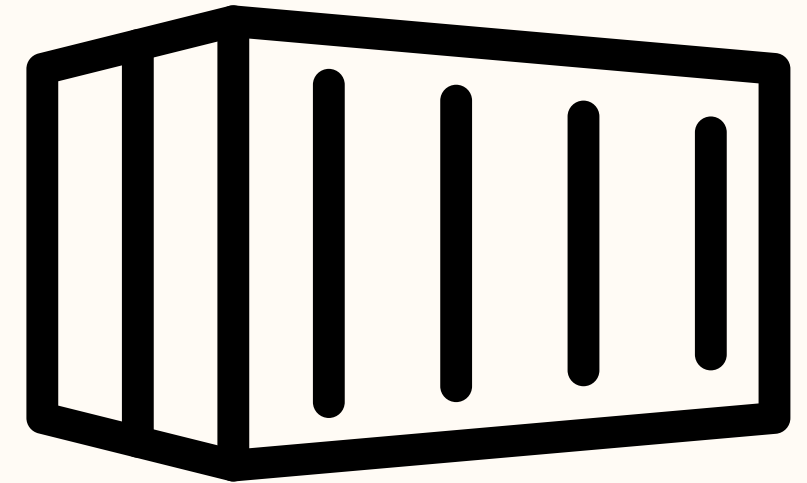

Components



Dockerfile

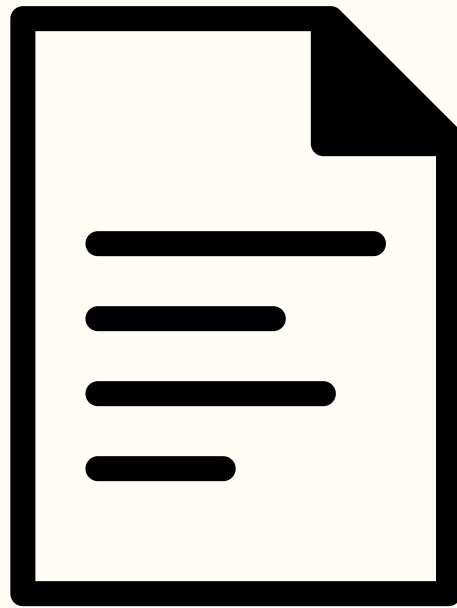


Docker Image

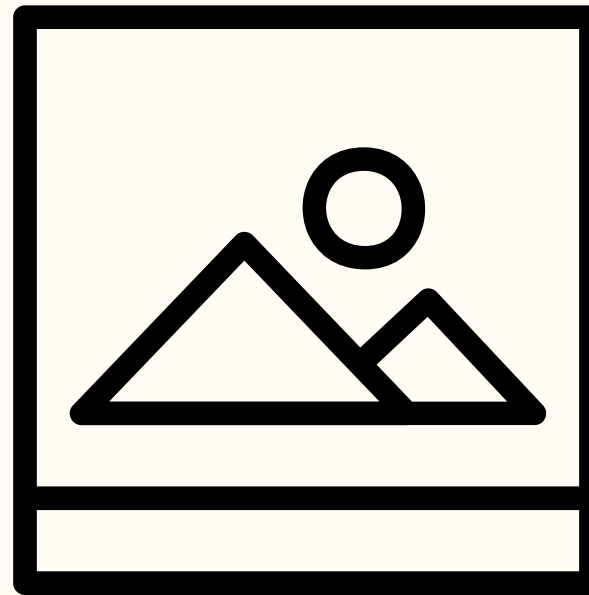


Container

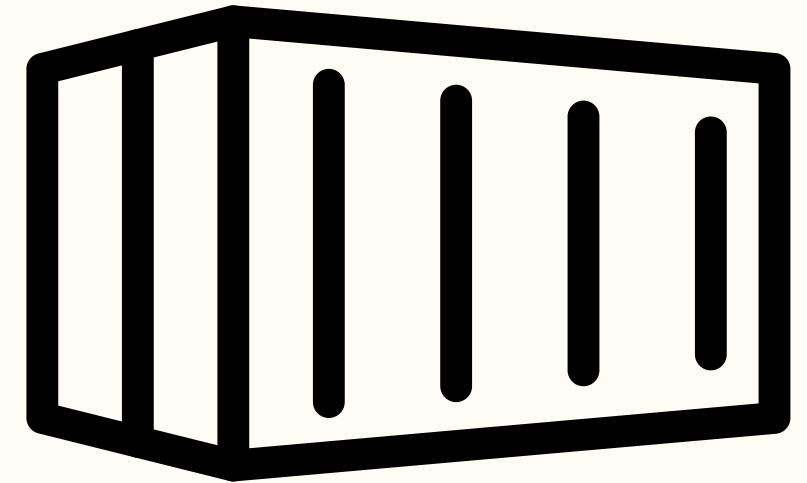
Components



Dockerfile

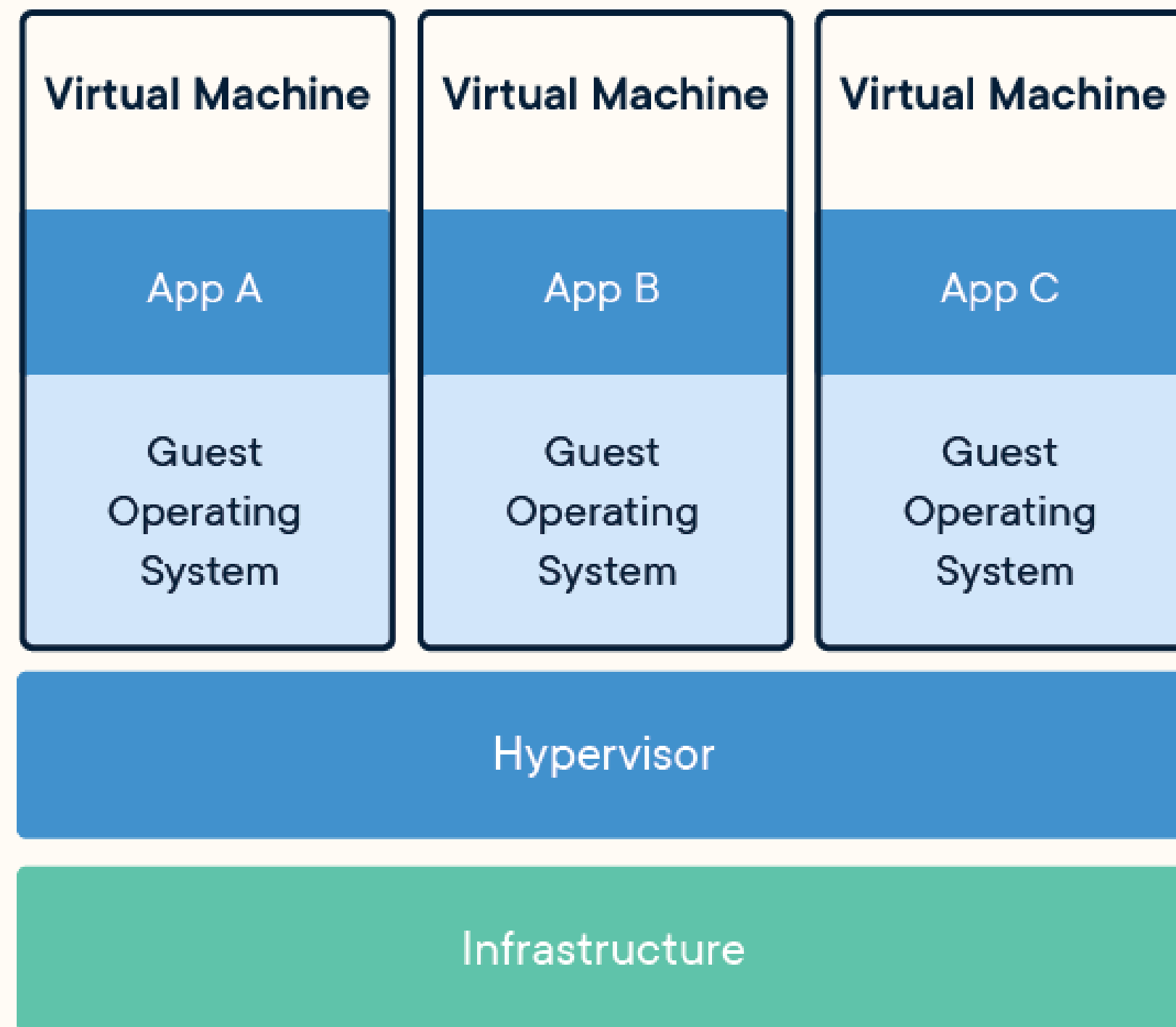
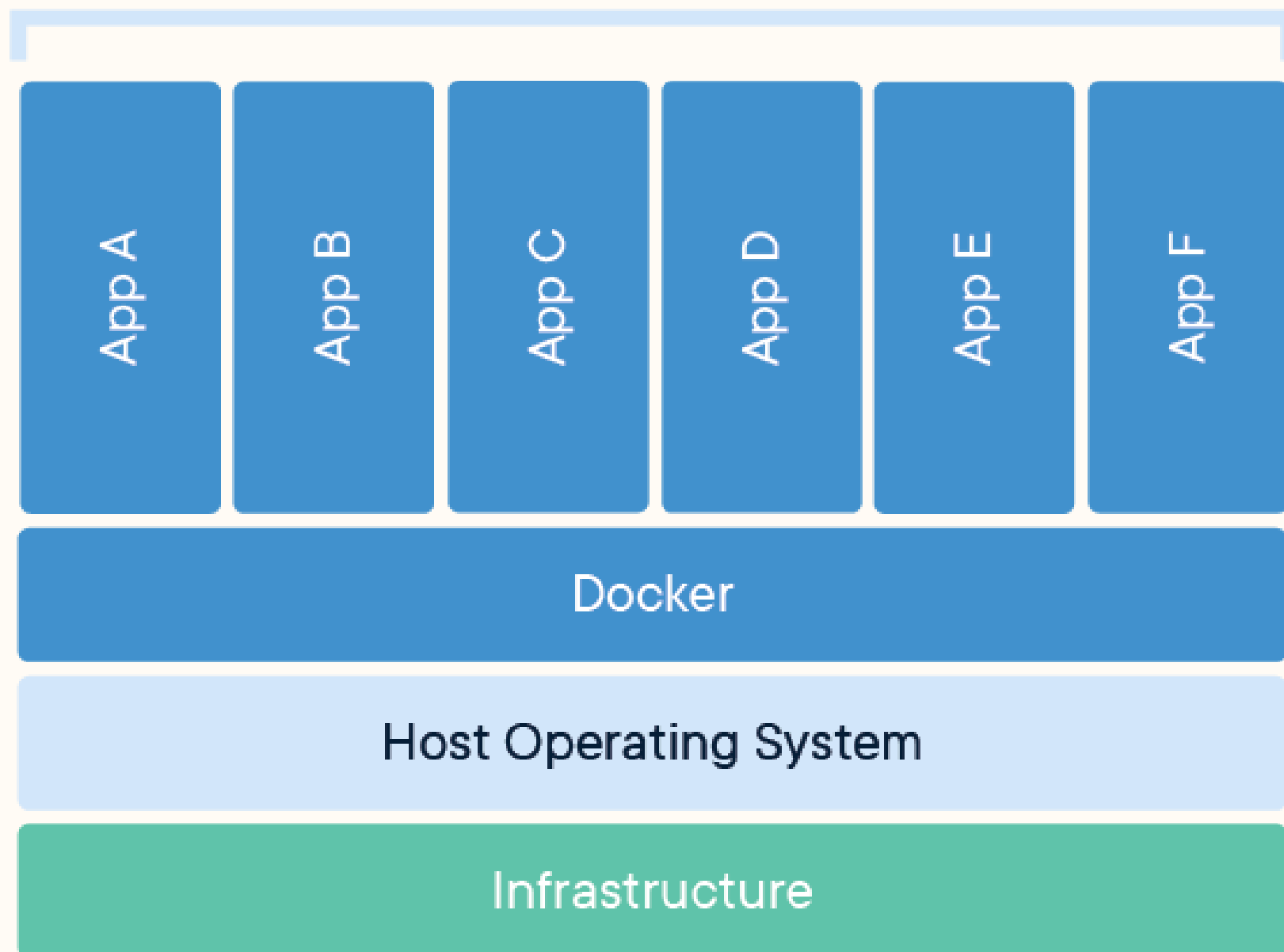


Docker Image

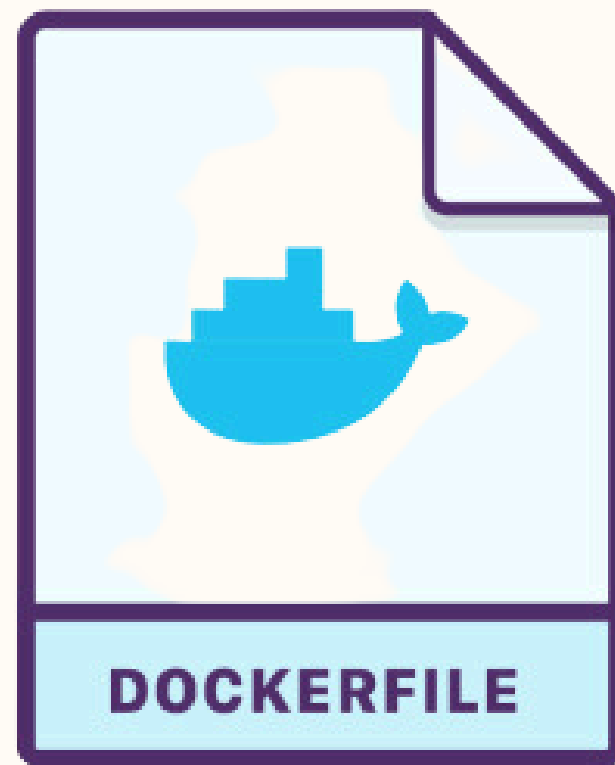


Container

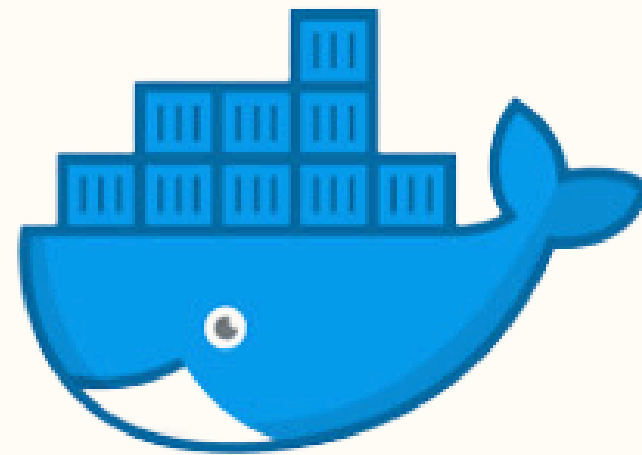
Containerized Applications



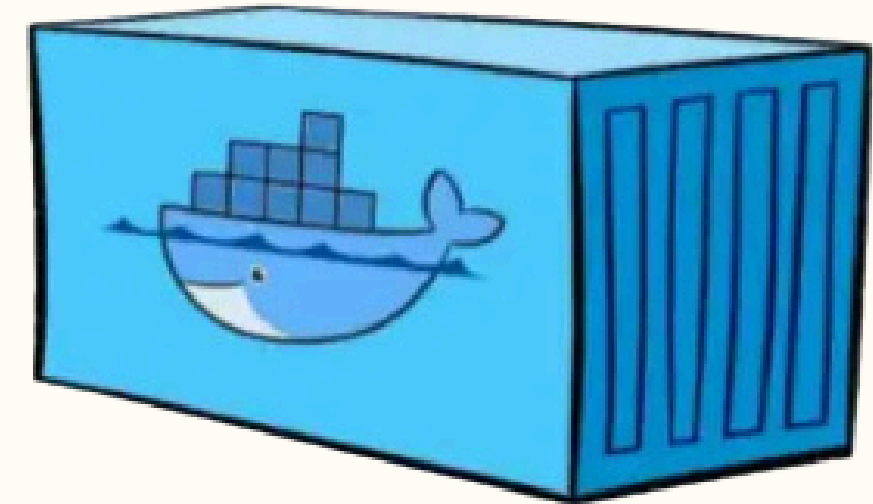
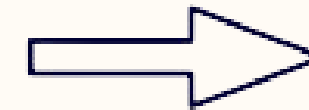
Process



Docker file



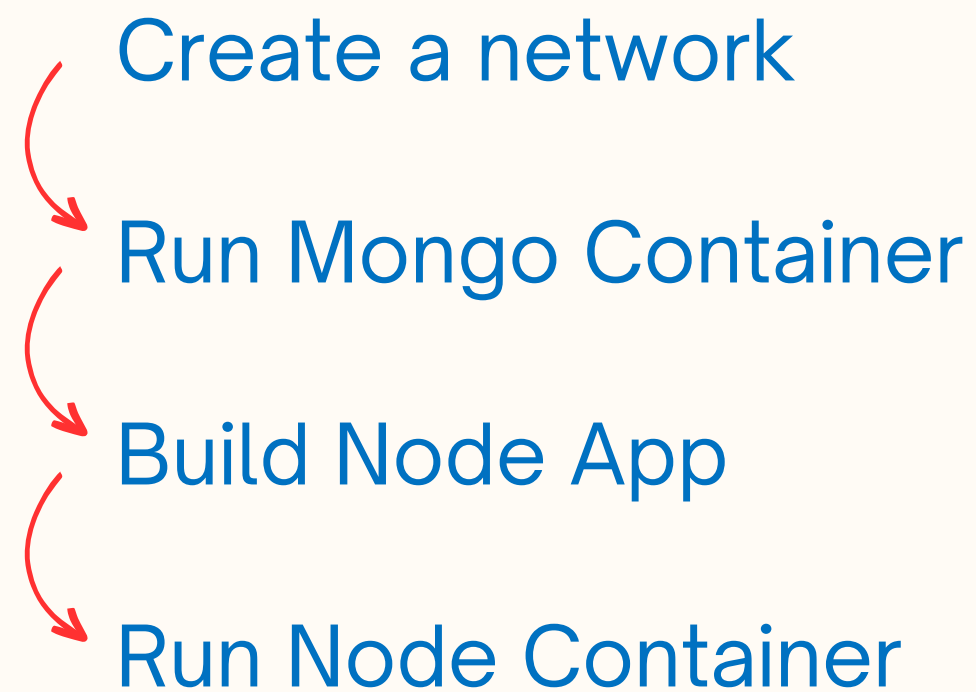
Docker Image



Docker Container

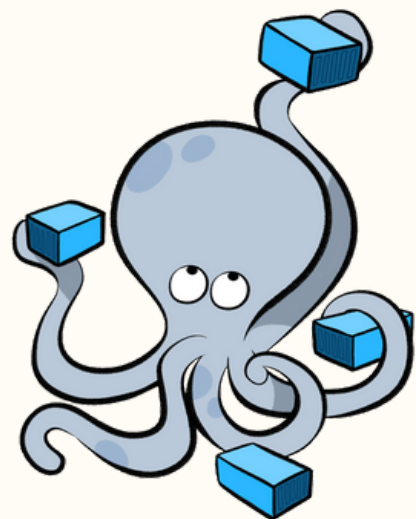
Let's see in action

Feel a little tedious
and complex?



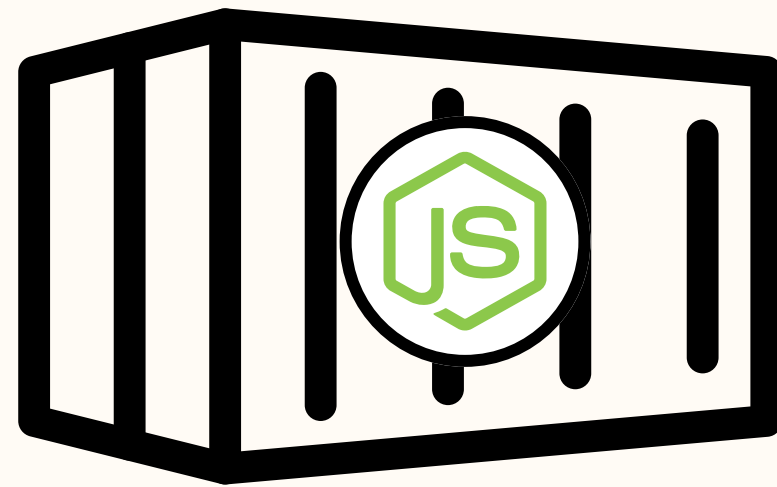
Create a network
Run Mongo Container
Build Node App
Run Node Container

- Long commands
- Time-consuming
- Hard to replicate
- What about when we have 50 containers?
- Room for ERRORS

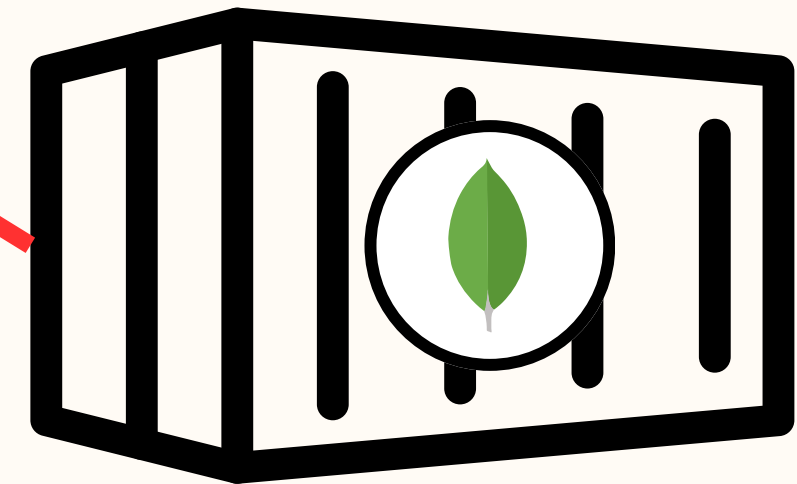


Docker Compose

Compose File



API Container



MongoDB Container



Network



```
version: "3.2"
```

```
services:
```

```
  node-app:
```

```
    container_name: node-app
```

```
    build: .
```

```
    image: node-docker-app
```

```
    ports:
```

```
      - 3000:3000
```

```
    environment:
```

```
      - MONGO_URL=mongodb://mongodb:27017/myapp
```

```
  mongo:
```

```
    container_name: mongodb
```

```
    image: mongo:5.0
```

Let's see in action

Connect With Me



 Pradumna Saraf

