

## Dockerizing a Node.js Application

This guide explains how to create a Docker image of a Node.js application and run it inside a Docker container.

### 1. Build Docker Image

```
docker build -t dockerizing-node-app:1.0 .
```

#### Meaning of Flags

- t: Tag → gives name & version to the image
- dockerizing-node-app: Custom image name
- 1.0: Image version
- .: Build context (current folder)

### 2. Dockerfile Breakdown

```
FROM node
```

```
WORKDIR /dockerizing-node-app
```

```
COPY package*.json .
```

```
RUN npm install
```

```
COPY . .
```

```
CMD ["node", "server.js"]
```

### 3. Run Docker Container

```
docker run --name node-container -p 3000:3000 dockerizing-node-app:1.0
```

Run in background:

```
docker run -d --name node-container -p 3000:3000 dockerizing-node-app:1.0
```

Stop:

```
docker stop node-container
```

Remove:

```
docker rm node-container
```

#### 4. Running Without Ports

```
docker run --name node-container dockerizing-node-app:1.0
```

Interactive Mode:

```
docker run -it dockerizing-node-app:1.0
```

```
docker run -it dockerizing-node-app:1.0 bash
```