# Containerizing the Video Streaming Microservice

## Step 1: Install Necessary Tools

### 1.1 Install Docker

Docker is required to containerize and run the microservice.

Check if Docker is installed:

docker --version

If missing, download and install from: https://www.docker.com

## Step 2: Create the Dockerfile

Inside the `video-streaming-microservice` folder, create a file named `Dockerfile` and add the following content:

FROM node:18.17.1  
  
WORKDIR /usr/src/app  
COPY package\*.json ./  
RUN npm ci --omit=dev  
COPY ./src ./src  
COPY ./videos ./videos  
  
CMD npm start

## Step 3: Build and Run the Docker Container

### 3.1 Build the Docker Image

Run the following command to build the Docker image:

docker build -t video-streaming-microservice .

### 3.2 Run the Container

Run the container with the required environment variable:

docker run -p 3000:3000 -e PORT=3000 video-streaming-microservice

Open a browser and visit: http://localhost:3000/video

You should see a streamed video being played.

## Step 4: Stop and Remove the Docker Container

To stop the running container, first find its Container ID:

docker ps

Then stop and remove the container:

docker stop <CONTAINER\_ID>  
docker rm <CONTAINER\_ID>