# Towards A to Z guide on how to deploy a Node.js todo app with Docker Compose

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## Introduction

Deploying a Node.js app can be a complex process, especially when it comes to managing dependencies, environment variables, and infrastructure. Docker Compose is a tool that makes it easy to define and run multi-container Docker applications. It simplifies the process of deploying and managing complex applications by providing a simple way to define the environment and dependencies for each service in your app. In this tutorial, we'll walk through the process of deploying a Node.js todo app with Docker Compose. We'll start by creating a Dockerfile for our app, then we'll define the services that

# **Prerequisites**

- Basic knowledge of Docker and Docker Compose
- Docker installed on your local machine
- A Node.js todo app (you can use any existing app or create a new one)

## Step 1: Create a Dockerfile

The first step is to create a Dockerfile for your Node.js app. This file will define the environment for your app and how to build the container image. Here's an example Dockerfile:

This Dockerfile uses the official Node.js 14 Alpine image as its base, sets the working directory to /app, copies the package.json and package-lock.json files to the working directory, installs the dependencies, copies the rest of the app files, exposes port 8000, and starts the app.

## Step 2: Create a docker-compose.yml file

The next step is to create a docker-compose.yml file to define the services that make up your app. Example docker-compose.yml file

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To build and run the app with Docker Compose, navigate to the directory that contains the docker-compose.yml file and run the following command:

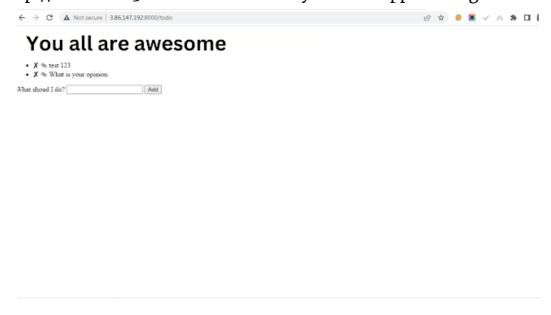
#### Copy code

docker-compose up

This command will build the images and start the containers for the web and db services. You should see the output from your app in the console.

## Step 4: Test the app

To test the app, open a web browser and navigate to http://localhost:3000. You should see your todo app running.



# Conclusion

In this tutorial, you learned how to deploy a Node.js todo app with Docker Compose. You created a Dockerfile to define the environment

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and tested the app. This approach makes it easy to deploy your app in any environment, and ensures that your app is consistent across all environments.

**DEVOPS** 



