# Automated Continious Integration with Travis

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## 1 Project definition

**Goal** This project was pulled from a Lynda tutorial teaching the basics of Docker, the Docker container created runs an express backend using MongoDB as the database server.

### 1.1 Running the application locally

The first order of business was to ensure that the application was able to run locally before deploying it in a Docker container. To do this we ran the following commands in the main directory:

```
$ npm install
$ npm start
```

To start the backend locally **MongoDB** is required to have a local install.

#### 1.2 Exporting to docker

The next step was to export the image to docker locally, to ensure the setup was running before deploying the automation of the Docker image to the TravisCI servers. To build a Docker image, I had to create a Dockerfile specifying the steps that needed to be taken to deploy the Express backend in a Docker container. The Dockerfile is shown in **Figure 1**.

```
FROM node
RUN mkdir /usr/src/app
WORKDIR /usr/src/app
ENV PATH /usr/src/app/node_modules/.bin:$PATH
COPY package.json /usr/src/app
RUN npm install
COPY . /usr/src/app

EXPOSE 4000
CMD [ "npm", "start"]
```

Figure 1: The dockerfile containing the instructions for building the container