

# TIC3001 Task 1A

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*This report is written in markdown and located at:*

*<https://github.com/keyule/3001-Task1A/blob/main/Report/report.md>*

## Task 1.1

### Instructions

1. Create docker file at /app/Dockerfile containing:

```
# syntax=docker/dockerfile:1
FROM node:18
ENV NODE_ENV=production

WORKDIR /app

COPY package*.json .
COPY package-lock.json* .

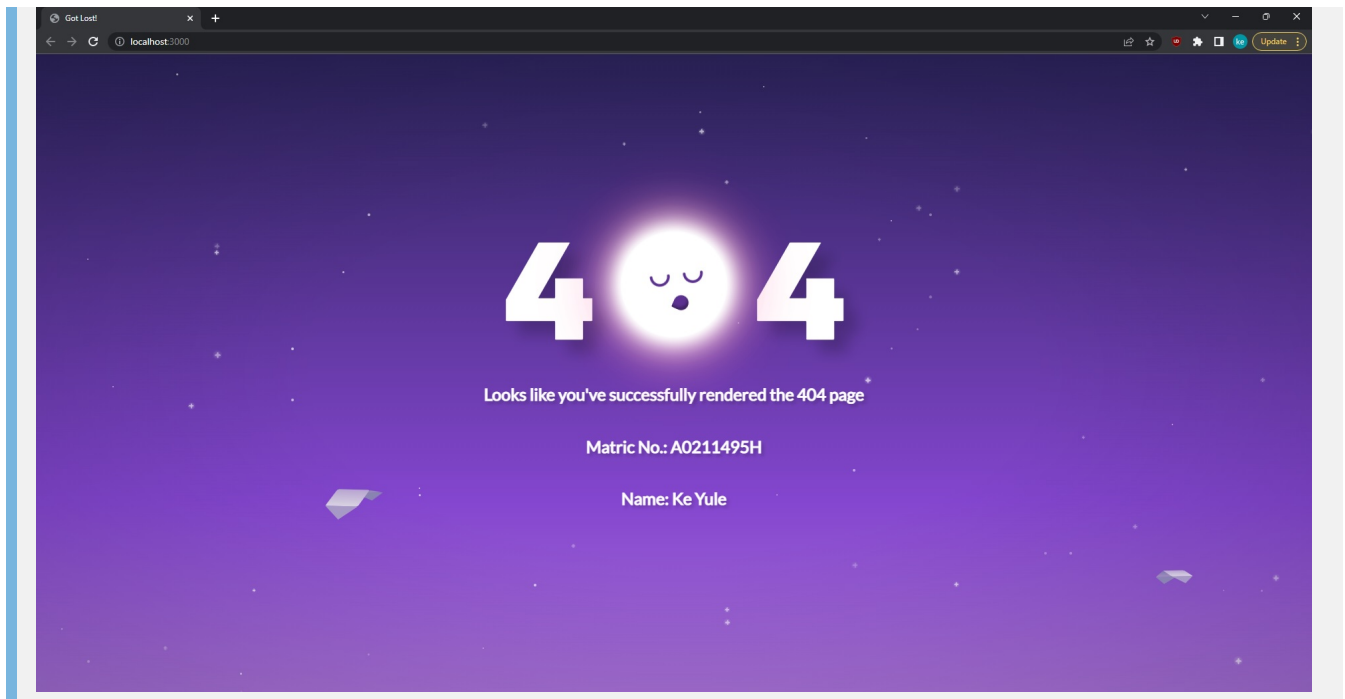
RUN npm install --production

COPY . .

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

2. `docker build -t <AppName> .`
3. `docker run -p 3000:3000 <AppName>`

### Screenshot



## Task 1.2

### Instructions

1. Create a nginx.conf file containing:

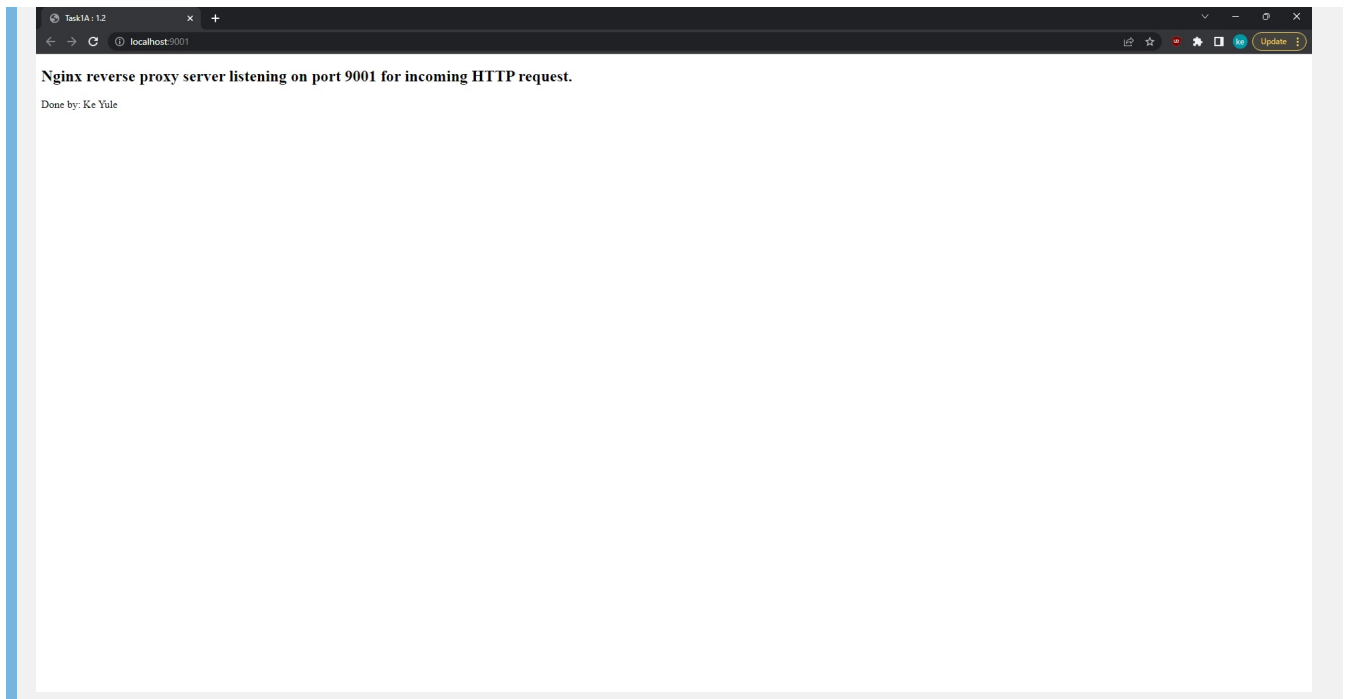
```
server {  
    listen 9001;  
    server_name localhost;  
  
    location / {  
        proxy_pass http://localhost:80;  
    }  
}
```

2. Create a docker file containing:

```
FROM nginx:latest  
COPY . /usr/share/nginx/html/  
  
COPY nginx.conf /etc/nginx/conf.d/
```

3. `docker build -t <NginxAppName> .`
4. `docker run -p 9001:9001 <NginxAppName>`

### Screenshot



## Task 1.3

### Instructions

1. Reuse the same Dockerfile for the node app
2. Create a nginx.conf file in the nginx folder containing:

```
events {}
http {
    server {
        listen 80;
        location / {
            proxy_pass http://web:3000;
            proxy_set_header Host $host;
            proxy_set_header X-Real-IP $remote_addr;
            proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        }
    }
}
```

3. Create a docker-compose.yml in the root folder containing:

```
version: '3.3'
services:
  web:
    build: ./app
  nginx:
    image: nginx:latest
    ports:
      - "80:80"
    volumes:
```

```
- ./nginx/nginx.conf:/etc/nginx/nginx.conf
depends_on:
- web
```

4. `docker-compose up --build`

*Note: I changed the port to 3000 in index.js*

## Screenshot

