

## Environment

- NodeJS
- MongoDB
- [ffmpeg](#)
- **Install react-scripts global**  
\$ npm install react-scripts -g

## Setup ffmpeg

### Windows

1. Download [ffmpeg-win64](#) or [ffmpeg-win32](#)
2. Extract file download at any folder (e.g. C:\Program Files) and rename to **ffmpeg** for convenience

#### Tree

```
C:\Program Files
|____ ffmpeg
      |____ bin
      |____ doc
      |____ presets
      |____ LICENSE.txt
      |____ README.txt
```

3. Add **C:\Program Files\ffmpeg\bin** to Environment Variables (Path)
4. **Done**

### Ubuntu

1. Open terminal
2. \$ sudo apt update
3. \$ sudo apt install -y ffmpeg
4. **Done**

## Setup web server

**Nginx** (/etc/nginx/sites-available/traceroll-dev.com)

```
server {  
    listen 80;  
    listen [::]:80;  
  
    server_name traceroll-dev.com www.traceroll-dev.com;  
    access_log /var/log/nginx/traceroll-dev.com.access.log;  
  
    location / {  
        proxy_pass http://192.168.1.46:9000;  
    }  
}
```

**Apache** (/etc/apache2/sites-available/traceroll-dev.com.conf)

```
<VirtualHost *:80>  
    ProxyPreserveHost On  
    ProxyRequests Off  
    ServerName traceroll-dev.com  
    ServerAlias traceroll-dev.com  
    ProxyPass / http://192.168.1.46 :9000/  
  
</VirtualHost>
```

192.168.1.46 is ip address of server

## Build & Run Traceroll

Required for both **development** and **production environment**

1. Extract **traceroll** zip file
2. Open terminal
3. Change current directory to **traceroll**  
\$ cd traceroll  
Install node modules  
\$ npm install
4. **Make symbolic link for file config.json** (file service.js will reference to this file, so we don't need to update file service.js)

\$ cd traceroll/src

Linux: \$ ln -s ../config.json config.json

```
aang@ubuntu:~/Documents/traceroll/src$ ll
total 32
drwxrwxr-x  3 aang aang 4096 Jun 18 18:13 ./
drwxrwxr-x  8 aang aang 4096 Jun 18 03:39 ../
-rw-rw-r--  1 aang aang  183 Jun 18 03:00 App.test.js
drwxrwxr-x 11 aang aang 4096 Jun 18 03:00 components/
lrwxrwxrwx  1 aang aang   14 Jun 18 03:00 config.json -> ../config.json
-rw-rw-r--  1 aang aang  105 Jun 18 03:00 index.css
-rw-rw-r--  1 aang aang  256 Jun 18 03:00 index.js
-rw-rw-r--  1 aang aang 4022 Jun 18 03:00 registerServiceWorker.js
-rw-rw-r--  1 aang aang  671 Jun 18 03:00 routes.js
```

Windows: \$ mklink config.json ../config.json

```
C:\Users\DCT\Loc\workspace\traceroll-phase4-dev\src>dir
Volume in drive C is Window7
Volume Serial Number is 7B52-89F7

Directory of C:\Users\DCT\Loc\workspace\traceroll-phase4-dev\src

11-Jun-18  10:15    <DIR>          .
11-Jun-18  10:15    <DIR>          ..
15-May-18  09:50             190 App.test.js
04-Jun-18  17:05    <DIR>          components
11-Jun-18  10:15    <SYMLINK>      config.json [..\config.json]
13-Jun-18  12:02             112 index.css
15-May-18  09:50             268 index.js
15-May-18  09:50          4,130 registerServiceWorker.js
15-May-18  09:50             692 routes.js
               6 File(s)              5,392 bytes
               3 Dir(s) 24,126,603,264 bytes free
```

5. Build project (run at least once to generate build folder to upload images/videos after)

\$ npm run build

6. Update config file (traceroll/config.json)

- Localhost

url: <http://localhost:9000>

port: 9000

- Domain

url: <http://app.traceroll.com>

port: 9000

Update mongo info

7. Run server (Run again if server shutdown or had been changed code on Server). By default, app will run 'development' mode (image, video will store on local computer in build folder). To upload file to S3, we need run 'production' mode

We recommend use **forever** to run Node.js server

Install: **npm install forever -g**

Linux:

**\$ export NODE\_ENV=development && sudo forever start app.js** (to store file on local computer)

**\$ export NODE\_ENV=production && sudo forever start app.js** (to store file on S3)

Windows:

**\$ set NODE\_ENV=development && sudo forever start app.js** (to store file on local computer)

**\$ set NODE\_ENV=production && sudo forever start app.js** (to store file on S3)

## Run development environment

At traceroll directory, run command

**\$ react-scripts start**

**Note:** When run dev environment make sure client and server run on different port. For instance, by default client will run on port **3000** (<http://localhost:3000>) and server will run on port **9000**.

## Run production environment

1. **\$ npm run build**
2. Run "url" in config.json on browser

Headers	Cookies	Params	Response	Timings
<b>Request URL:</b> <span>http://traceroll-dev.com/api/element/list/zuko</span>				
<b>Request method:</b> GET				
<b>Remote address:</b> <span>192.168.1.46:80</span>				

Check network request to make sure app run correctly as expected

## Logs

**\$ sudo forever logs**

### **TRACEROLL AGENT ACCOUNT**

\_ file config.json field "auth-sender" (..\config.json)

### **SEND EMAIL CONFIRM REGISTRATION**

\_ call to register function ( ..\server\routes\authentication.js)

\_ after create new account call to sendRegisterConfirmEmail function send confirm email

### **SEND EMAIL FORGOT PASSWORD**

\_ handleResetPwd() fire when hit button reset (..\src\components\Login\index.js)

\_ call to resetPwd() (..\server\routes\authentication.js) send email reset password

### **SEND EMAIL REPORT ISSUE**

\_ sendMail() collect details report (..\src\components\Elements\OptionsMenu\index.js)

\_ call api "/api/user/report" (..\server\routes\api.js)

\_ send mail by controller sendReportMail() (..\server\controllers\api.js)

**notes:** change template mail by change mailOptions.html (..\server\controllers\api.js)