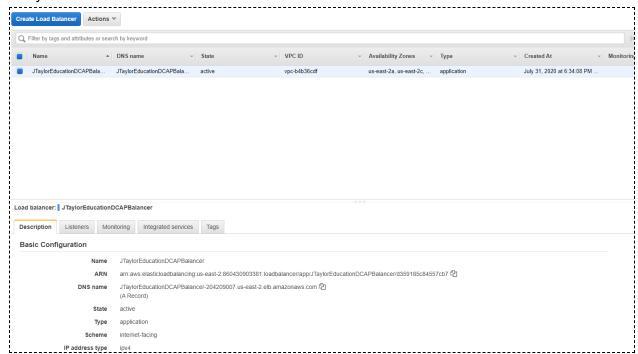
How to set up a domain for your React app, an AWS EC2 instance, SSL cert, HTTP to HTTPs redirect and React client-side routing(React acts different once deployed).

This video, by Cloud Guru, is perfect for creating/adding a SSL certificate, making your site use HTTPS: https://www.youtube.com/watch?v=YYIeHdvCUv8&t=416s

Domain Name: For me, purchasing the Domain name from AWS made the process faster and less confusing, as used in the video above.

Creating Load Balancers:

The video touches very little on setting up a load balancer, but it was pretty self explanatory once you create one for your application. This is what mine looked like after created and linked to my EC2 instance:



EC2(Front End Only):

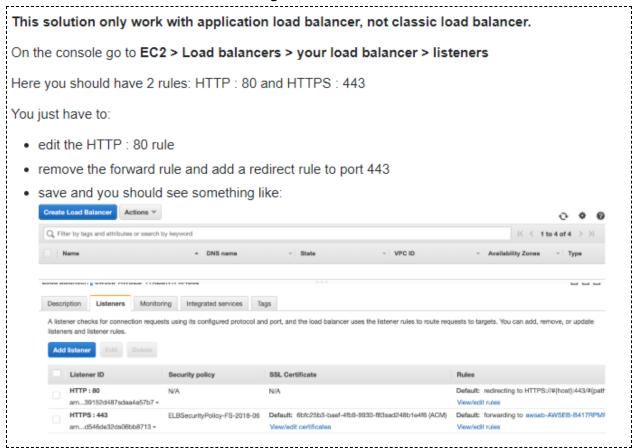
Setup:

```
cd {{Project Name}}
echo node_modules/ > .gitignore
cd client
npm run build
rmdir /s .git
del /f .gitignore
```

```
cd ..
git init
git add .
git commit -m "initial commit"
git remote add {{ Your Repo }}
git push -u origin master
AWS:
Create an AWS EC2 instance using Ubunto 18.04 LTS(Free)
Step 6 is the only one to modify:
SSH = MyIP
HTTP = Anywhere
HTTPS = Anywhere
Once instance is created, press connect, you will then connect using this
command:
ssh -i "keyname.pem" ubuntu@ec2-XXX-XXX-XXX.compute-1.amazonaws.com
sudo apt update
sudo apt install nodejs npm nginx git -y
nodejs -v
# this should print out version 8.10.0
curl -sL https://deb.nodesource.com/setup 10.x -o nodesource setup.sh
sudo bash nodesource setup.sh
sudo apt install nodejs
nodejs -v
# this should now print out version 10.19.0
sudo apt install build-essential
git clone {{ Your Repo link }}
cd ~/$repoName/client
sudo rm -rf /var/www/html
sudo mv build /var/www/html
sudo service nginx restart
sudo grep -rl localhost /var/www/html | xargs sed -i 's/http:\/\/localhost:8000//g'
```

Front end is now ready on the EC2 instance link.

Solution for HTTP to HTTPS redirecting:



REACT Routing with deployment

React router acts differently once deployed and should look something like this instead of using @reach/router, using HashRouter as Router, Route, and Switch from 'react-router-dom':

App.js

```
import React from 'react';
import Main from './views/Main';
import Register from './views/Register';
import {HashRouter as Router,Route, Switch} from 'react-router-dom';
function App() {
    return (
        <div className='App'>
            <Router>
                <div>
                    <Switch>
                        Route path="/register">
                            <Register />
                         </Route>
                        <Route path="/">
                            <Main />
                        </Route>
                    </Switch>
            </Router>
        </div>
    );
export default App;
```

This isn't the only way, nor the best way for it to work, but it's the easiest way (for me it was). To navigate between views, I used:

```
import { useHistory } from 'react-router-dom';
let history = useHistory();
history.push("/some-route")
```

This method does add a hashtag in between your route names in the url.