1. Things for later

Important Script to run on server:

cd /opt/bitnami/projects/FullStackServer/  
forever start ./forever/development.json

To stop:

Forever stopall

All the important stuff is in /opt/bitnmai/projects/FullStackServer.

./forever/ was put in there to run the forever stuff. Development.json was created to house the start script stuff.

Big thing to note: We DON’T use “node app.js”, we use “node ./bin/www”. It has something to do with routing.

SSL certs for HTTPS are stored in /opt/bitnami/letsencrypt/certificates as marcnettles.com.crt and marcnettles.com.key

Bncert-tool used for certificates. “sudo /opt/bitnami/bncert-tool” was used with marcnettles.com and [www.marcnettles.com](http://www.marcnettles.com) as domains. http to https redirect selected, as well as non-www to www redirect.

(NOTE: Stopped apache services and everything still works… so I guess we don’t need it?)   
Apache configuration is at “/opt/bitnami/apache/conf/bitnami”, and the DocumentRoot pointed to “/opt/bitnami/apache/htdocs

2. Setting Up AWS Lightsail with Nodejs

1. Made the AWS account using Nodejs configuration
2. AWS pretty much sets up everything for the server and gives an ip address
3. Followed instructions to get static ip address
4. Followed bitnami instructions (<https://docs.bitnami.com/general/infrastructure/nodejs/get-started/get-started/>) to get the nodejs stuff started.
5. Couldn’t figure out how to get my files on this new server, so after some research:
   1. Have to create SSH connection
   2. Had to download the .pem file which contains the default key
   3. Had to download PuTTY and use PuTTYgen to import the .pem key and convert it into a .ppk key
   4. Took that .ppk key and was able to connect to the website’s public ip address with port 22
   5. Then, had to take the .ppk file and load it into a FTP browser (I used WinSCP). Then, after uploading the .ppk file, I connected to the public IP address with port 22 and was able to transfer my files over.
6. Then there were a bunch of issues starting the server with “npm start” (kept saying port 3000 is in use)
   1. Used “node app.js” instead from location “cd /opt/bitnami/projects/FullStackWebsite/”
7. Domain name is registered as marcnettles.com, but still hasn’t worked yet.

3. Accessing files by FTPing into port 22

1. Use something like WinSCP to FTP into the public ip address with port 22.

2. Click advanced and go to SSH-> Authentication and import the private key file (.ppk)

3. Click login, then use the username “bitnami” to log in.

4. Trying to fix the port problem (where site is only accessible by adding :3000 to url)

In “/opt/Bitnami/apps/letsencrypt”, there’s a “conf” directory which contains “httd-prefix.conf”. I added ProxyPass / <http://127.0.0.1:3000/> and ProxyPassReverse / <http://127.0.0.1:3000/> to it.

NOTE: This was fixed by blowing up the instance and trying again. It all seemed to work that time.

5. Upgrading XSS protection and more

Added CORS: <https://docs.bitnami.com/aws/infrastructure/nodejs/administration/enable-cors-nodejs>

But I also put it in the vhosts folder with the FullStackWebsite-http-vhost.conf file and the FullStackWebsite-https-vhost.conf file

**Also added Helmet.js by doing npm install helmet.**