

CS-470 Full Stack Development II – Dockerfile

Eric Slutz

Southern New Hampshire University

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## Dockerfile

### Docker Commands lafs-api

```
~/Code/SNHU-Code/CS-470/Module 2 Assignment/lafs-api
[ericslutz@Eric-MacBook-Pro lafs-api(master)] > docker build -t node-lafs-api .
[+] Building 0.8s (11/11) FINISHED                                docker:desktop-linux
=> [internal] load build definition from Dockerfile              0.0s
=> => transferring dockerfile: 505B                             0.0s
=> [internal] load .dockerignore                                0.0s
=> => transferring context: 89B                                    0.0s
=> [internal] load metadata for docker.io/library/node:10       0.6s
=> [auth] library/node:pull token for registry-1.docker.io      0.0s
=> [1/5] FROM docker.io/library/node:10@sha256:59531d2835edd5161c8f9512f9e095b1836f7a1fcb0ab73e005ec46047384911 0.0s
=> [internal] load build context                                0.0s
=> => transferring context: 3.36kB                                0.0s
=> CACHED [2/5] WORKDIR /usr/src/lafs                          0.0s
=> CACHED [3/5] COPY package*.json ./                          0.0s
=> CACHED [4/5] RUN npm install                                0.0s
=> [5/5] COPY . .                                              0.0s
=> exporting to image                                           0.0s
=> => exporting layers                                           0.0s
=> => writing image sha256:6cb00377c1606d0e6ff624232e190f56d2fdd4d8ada2dad35fallc0b060ebb13 0.0s
=> => naming to docker.io/library/node-lafs-api                 0.0s

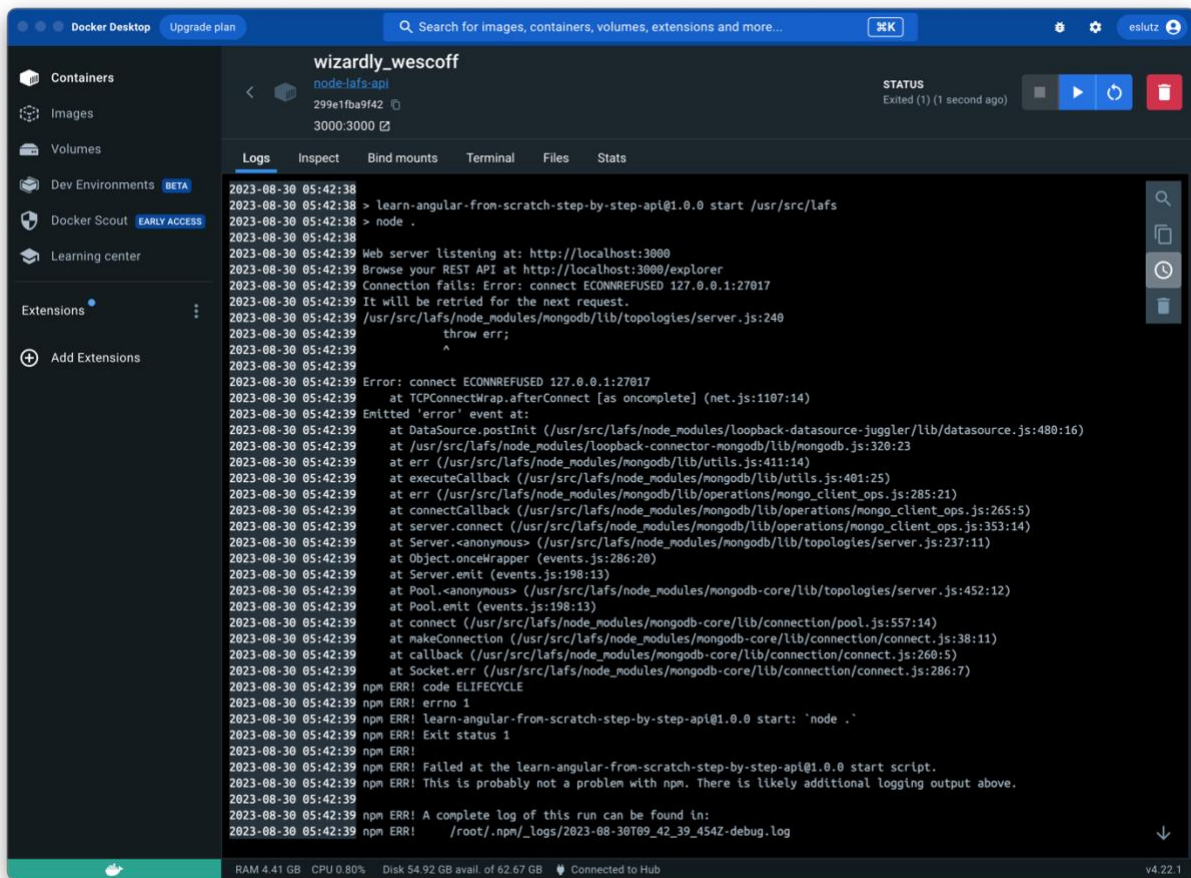
What's Next?
View summary of image vulnerabilities and recommendations -- docker scout quickview
[ericslutz@Eric-MacBook-Pro lafs-api(master)] > docker run -p 3000:3000 -d node-lafs-api
299e1fba9f4281de221467801928dbb2df4787b957e0e8964e5185aa6fa8cbf7
[ericslutz@Eric-MacBook-Pro lafs-api(master)] >
```

### Docker Commands lafs-web

```
~/Code/SNHU-Code/CS-470/Module 2 Assignment/lafs-api
[ericslutz@Eric-MacBook-Pro lafs-web(master)] > docker build -t node-lafs-web .
[+] Building 95.6s (12/12) FINISHED                                docker:desktop-linux
=> [internal] load .dockerignore                                0.0s
=> => transferring context: 89B                                    0.0s
=> [internal] load build definition from Dockerfile              0.0s
=> => transferring dockerfile: 554B                             0.0s
=> [internal] load metadata for docker.io/library/node:10       1.2s
=> [auth] library/node:pull token for registry-1.docker.io      0.0s
=> [internal] load build context                                0.1s
=> => transferring context: 530.81kB                              0.1s
=> [1/6] FROM docker.io/library/node:10@sha256:59531d2835edd5161c8f9512f9e095b1836f7a1fcb0ab73e005ec46047384911 18.2s
=> => resolve docker.io/library/node:10@sha256:59531d2835edd5161c8f9512f9e095b1836f7a1fcb0ab73e005ec46047384911 0.0s
=> => sha256:c8c6878c2c9157fbb0d678c4d562a702347cdf580e9efca53c9d34a4c5b89756 2.21kB / 2.21kB 0.0s
=> => sha256:8e7d38e5813e5a59ee1d86fb1c7c8c344342d0ec418aa440509260354958f9ad 10.20MB / 10.20MB 0.9s
=> => sha256:fd8ce7d8aff58ac80f7baa508791ea69df0fa3c7dac0ab9be8933ce3ef5b68a 4.10MB / 4.10MB 0.4s
=> => sha256:59531d2835edd5161c8f9512f9e095b1836f7a1fcb0ab73e005ec46047384911 776B / 776B 0.0s
=> => sha256:8951689bc94c5971e4fa0f1b37633bcd9509980e0229a492b1be63c72bf81f8 7.83kB / 7.83kB 0.0s
=> => sha256:30dd672115ff6f225cb98d2d7f1ed62feb72c2612297b2ac615e762e436c64ec 43.18MB / 43.18MB 6.1s
=> => sha256:2cdea9792a283a7de201b23b519db14e33c4a69b73fab9ec56ed56967eb688fc 47.74MB / 47.74MB 3.4s
=> => sha256:74c8e943b88aa59e9ee47fe9913ecbfafad45d9d5ae4b6ed45371d071fc1c06e 201.72MB / 201.72MB 11.5s
=> => sha256:e43f89ea137e6c90d08793e2919ef8c4ff90844cef424d910e00c4dbdf2e1b0 4.20kB / 4.20kB 3.6s
=> => sha256:3375bb22ecc4451a95b82ac8d1fc46fb8c34fd022070cb0d82573319b9d8ca1c 21.50MB / 21.50MB 5.4s
=> => sha256:637bc3a914b7fea4edb7af38a5b4eb15925c1b53ca88f5b5ff17b6e2fe8b5fa3 2.48MB / 2.48MB 5.7s
=> => sha256:0824dde107216062dc0028250fb89535fd4df761b60b277fe0ae7104c2697185 294B / 294B 5.8s
=> => extracting sha256:30bd672115ff6f225cb98d2d7f1ed62feb72c2612297b2ac615e762e436c64ec 1.5s
=> => extracting sha256:8e7d38e5813e5a59ee1d86fb1c7c8c344342d0ec418aa440509260354958f9ad 0.3s
=> => extracting sha256:fd8ce7d8aff58ac80f7baa508791ea69df0fa3c7dac0ab9be8933ce3ef5b68a 0.1s
=> => extracting sha256:2cdea9792a283a7de201b23b519db14e33c4a69b73fab9ec56ed56967eb688fc 1.7s
=> => extracting sha256:74c8e943b88aa59e9ee47fe9913ecbfafad45d9d5ae4b6ed45371d071fc1c06e 5.2s
=> => extracting sha256:e43f89ea137e6c90d08793e2919ef8c4ff90844cef424d910e00c4dbdf2e1b0 0.0s
=> => extracting sha256:3375bb22ecc4451a95b82ac8d1fc46fb8c34fd022070cb0d82573319b9d8ca1c 1.2s
=> => extracting sha256:637bc3a914b7fea4edb7af38a5b4eb15925c1b53ca88f5b5ff17b6e2fe8b5fa3 0.0s
=> => extracting sha256:0824dde107216062dc0028250fb89535fd4df761b60b277fe0ae7104c2697185 0.0s
=> [2/6] WORKDIR /usr/src/lafs                                  0.6s
=> [3/6] COPY package*.json ./                                  0.0s
=> [4/6] RUN npm install -g @angular/cli@v6-lts                 15.4s
=> [5/6] RUN npm install                                         58.2s
=> [6/6] COPY . .                                              0.0s
=> exporting to image                                           1.9s
=> => exporting layers                                           1.9s
=> => writing image sha256:4bf8988a201bf510b74e011093b79e495d51d194a5d672d3495f8b63dce6a29e 0.0s
=> => naming to docker.io/library/node-lafs-web                 0.0s

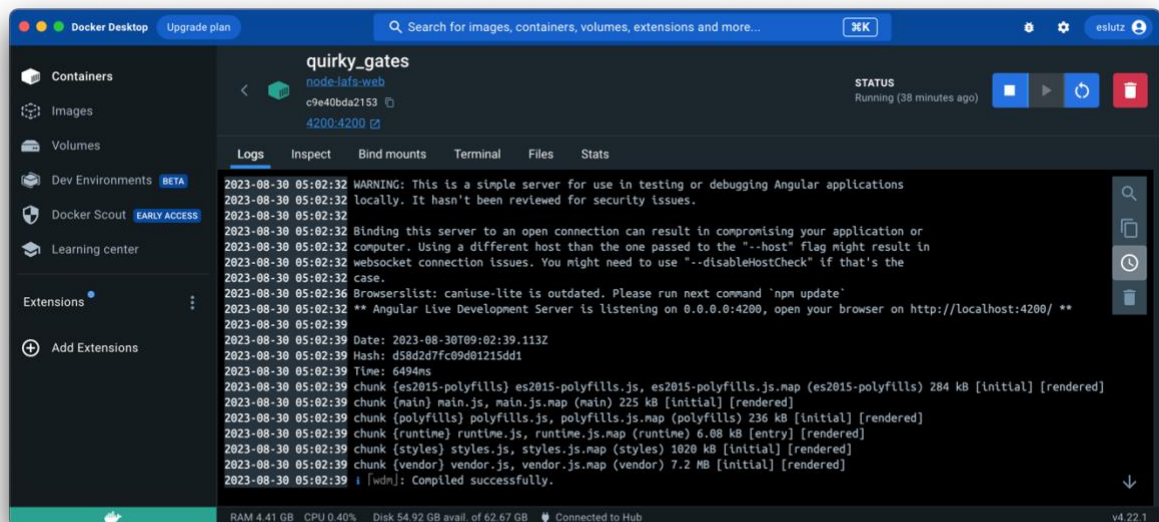
What's Next?
View summary of image vulnerabilities and recommendations -- docker scout quickview
[ericslutz@Eric-MacBook-Pro lafs-web(master)] > docker run -p 4200:4200 -d node-lafs-web
c9e40bda2153ae04310b0971a0b4a886bf4c4ebc6f4f1e18ba22aa88910e439
```

## Docker Desktop lafs-api Output



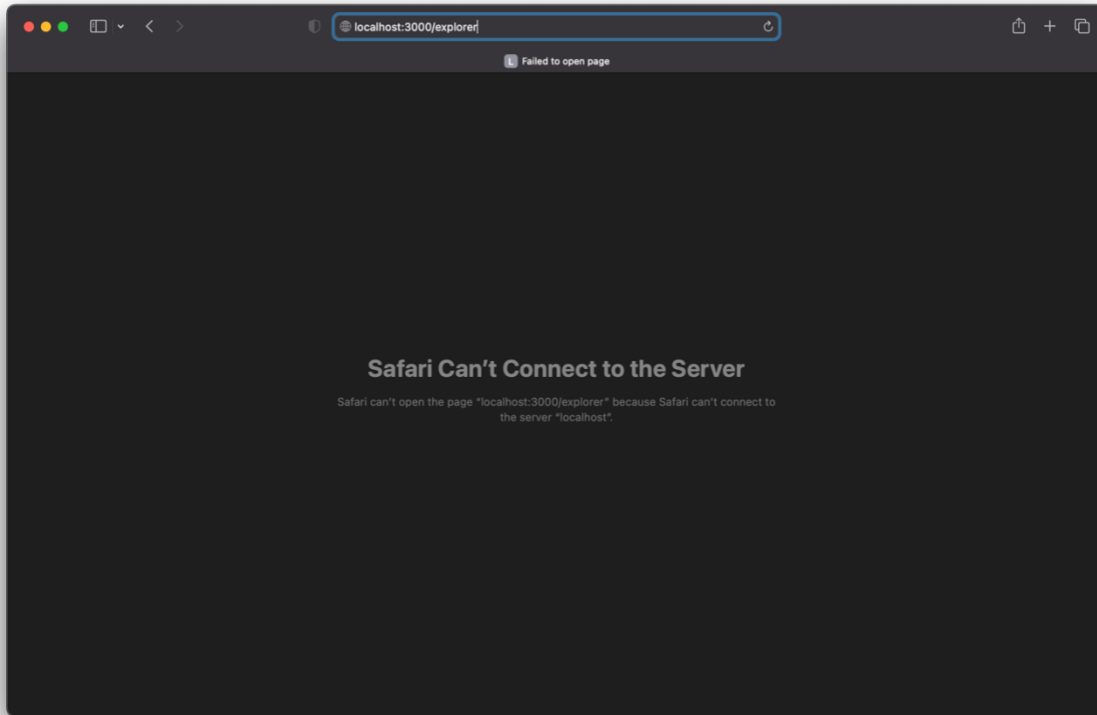
```
2023-08-30 05:42:38 > learn-angular-from-scratch-step-by-step-api@1.0.0 start /usr/src/lafs
2023-08-30 05:42:38 > node .
2023-08-30 05:42:38 Web server listening at: http://localhost:3000
2023-08-30 05:42:38 Browse your REST API at http://localhost:3000/explorer
2023-08-30 05:42:38 Connection fails: Error: connect ECONNREFUSED 127.0.0.1:27017
2023-08-30 05:42:38 It will be retried for the next request.
2023-08-30 05:42:38 /usr/src/lafs/node_modules/mongodb/lib/topologies/server.js:240
2023-08-30 05:42:38   throw err;
2023-08-30 05:42:38   ^
2023-08-30 05:42:38 Error: connect ECONNREFUSED 127.0.0.1:27017
2023-08-30 05:42:38   at TCPConnectWrap.afterConnect [as oncomplete] (net.js:1107:14)
2023-08-30 05:42:38   at DataSource.postInit (/usr/src/lafs/node_modules/loopback-datasource-juggler/lib/datasource.js:480:16)
2023-08-30 05:42:38   at /usr/src/lafs/node_modules/loopback-connector-mongodb/lib/mongodb.js:328:23
2023-08-30 05:42:38   at err (/usr/src/lafs/node_modules/mongodb/lib/utils.js:411:14)
2023-08-30 05:42:38   at executeCallback (/usr/src/lafs/node_modules/mongodb/lib/utils.js:401:25)
2023-08-30 05:42:38   at err (/usr/src/lafs/node_modules/mongodb/lib/operations/mongo_client_ops.js:285:21)
2023-08-30 05:42:38   at connectCallback (/usr/src/lafs/node_modules/mongodb/lib/operations/mongo_client_ops.js:265:5)
2023-08-30 05:42:38   at server.connect (/usr/src/lafs/node_modules/mongodb/lib/operations/mongo_client_ops.js:353:14)
2023-08-30 05:42:38   at Server.<anonymous> (/usr/src/lafs/node_modules/mongodb/lib/topologies/server.js:237:11)
2023-08-30 05:42:38   at Object.onceWrapper (events.js:286:20)
2023-08-30 05:42:38   at Server.emit (events.js:198:13)
2023-08-30 05:42:38   at Pool.<anonymous> (/usr/src/lafs/node_modules/mongodb-core/lib/topologies/server.js:452:12)
2023-08-30 05:42:38   at Pool.emit (events.js:198:13)
2023-08-30 05:42:38   at connect (/usr/src/lafs/node_modules/mongodb-core/lib/connection/pool.js:557:14)
2023-08-30 05:42:38   at makeConnection (/usr/src/lafs/node_modules/mongodb-core/lib/connection/connect.js:38:11)
2023-08-30 05:42:38   at callback (/usr/src/lafs/node_modules/mongodb-core/lib/connection/connect.js:268:5)
2023-08-30 05:42:38   at Socket.err (/usr/src/lafs/node_modules/mongodb-core/lib/connection/connect.js:286:7)
2023-08-30 05:42:38 npm ERR! code ELIFECYCLE
2023-08-30 05:42:38 npm ERR! errno 1
2023-08-30 05:42:38 npm ERR! learn-angular-from-scratch-step-by-step-api@1.0.0 start: 'node .'
2023-08-30 05:42:38 npm ERR! Exit status 1
2023-08-30 05:42:38 npm ERR!
2023-08-30 05:42:38 npm ERR! Failed at the learn-angular-from-scratch-step-by-step-api@1.0.0 start script.
2023-08-30 05:42:38 npm ERR! This is probably not a problem with npm. There is likely additional logging output above.
2023-08-30 05:42:38 npm ERR! A complete log of this run can be found in:
2023-08-30 05:42:38 npm ERR! /root/.npm/_logs/2023-08-30T09_42_39_454Z-debug.log
```

## Docker Desktop lafs-web Output

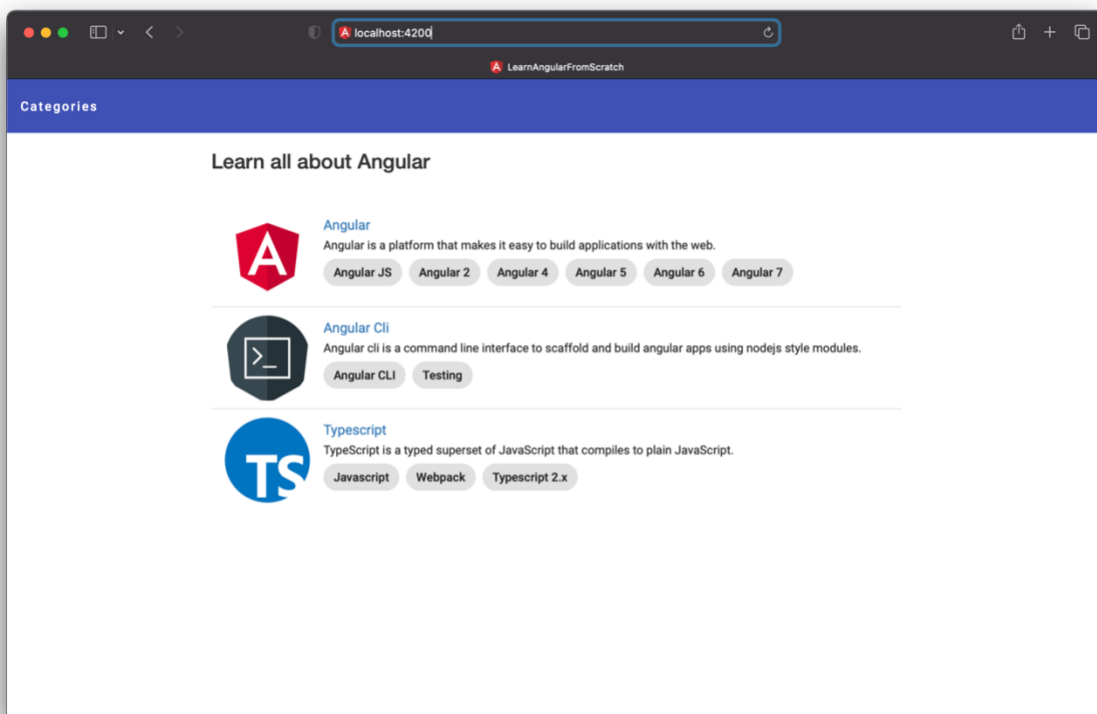


```
2023-08-30 05:02:32 WARNING: This is a simple server for use in testing or debugging Angular applications
2023-08-30 05:02:32 locally. It hasn't been reviewed for security issues.
2023-08-30 05:02:32 Blinding this server to an open connection can result in compromising your application or
2023-08-30 05:02:32 computer. Using a different host than the one passed to the "--host" flag might result in
2023-08-30 05:02:32 websocket connection issues. You might need to use "--disableHostCheck" if that's the
2023-08-30 05:02:32 case.
2023-08-30 05:02:32 Browserslist: caniuse-lite is outdated. Please run next command 'npm update'
2023-08-30 05:02:32 ** Angular Live Development Server is listening on 0.0.0.0:4200, open your browser on http://localhost:4200/ **
2023-08-30 05:02:39 Date: 2023-08-30T09:02:39.113Z
2023-08-30 05:02:39 Hash: d58d2d7fc09d01215dd1
2023-08-30 05:02:39 Time: 6494ms
2023-08-30 05:02:39 chunk (es2015-polyfills) es2015-polyfills.js, es2015-polyfills.js.map (es2015-polyfills) 284 kB [initial] [rendered]
2023-08-30 05:02:39 chunk (main) main.js, main.js.map (main) 225 kB [initial] [rendered]
2023-08-30 05:02:39 chunk (polyfills) polyfills.js, polyfills.js.map (polyfills) 236 kB [initial] [rendered]
2023-08-30 05:02:39 chunk (runtime) runtime.js, runtime.js.map (runtime) 6.08 kB [entry] [rendered]
2023-08-30 05:02:39 chunk (styles) styles.js, styles.js.map (styles) 1020 kB [initial] [rendered]
2023-08-30 05:02:39 chunk (vendor) vendor.js, vendor.js.map (vendor) 7.2 MB [initial] [rendered]
2023-08-30 05:02:39 [wds]: Compiled successfully.
```

## lafs-api Screenshot



## lafs-web Screenshot



## Docker Desktop Dashboard

