Deliverable 1: Chapter 1

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The objective for Chapter 1 was to clone the target project's repository, build the project, and run any existing tests that the original developers might have left behind. What we found was that the hardest part, by far, was figuring out what to to. The project structure of Nightscout includes a dockerfile, making it seem almost certain that building/deploying through Docker would be possible, but it immediately became clear that we didn't understand docker and don't know what any of the lines within the dockerfile do. So, we set about following the instructions on their github's readme/markdown file.

First step was installing NPM, which takes some time but is a simply 'sudo apt install npm'. However, this leaves you with a severely deprecated NPM; a new version of NPM and node JS has to be forced to install correctly;

- sudo npm cache clean -f
- sudo npm install -g n
- sudo n stable
- sudo npm install npm@latest -g

Next, MongoDB had to be installed, which could be done with a

- sudo apt install mongodb-clients

Finally, we discovered the 'setup.sh' file is actually congfigured to auto-install all the dependencies (and correct versions), as well as automatically running the build process once that is completed. A simple command installed and built the project in one fell swoop:

- ./setup.sh

or, since we've gone though all the trouble of doing all these steps manually, all that is left for a fully-manual build is a simple

- npm install

After installing all the pre-requisites, and using npm to install/build the project, part 1 was completed; we got a 'build succeeded' message in the console, at least. No idea how to access or run it, but it 'built'.

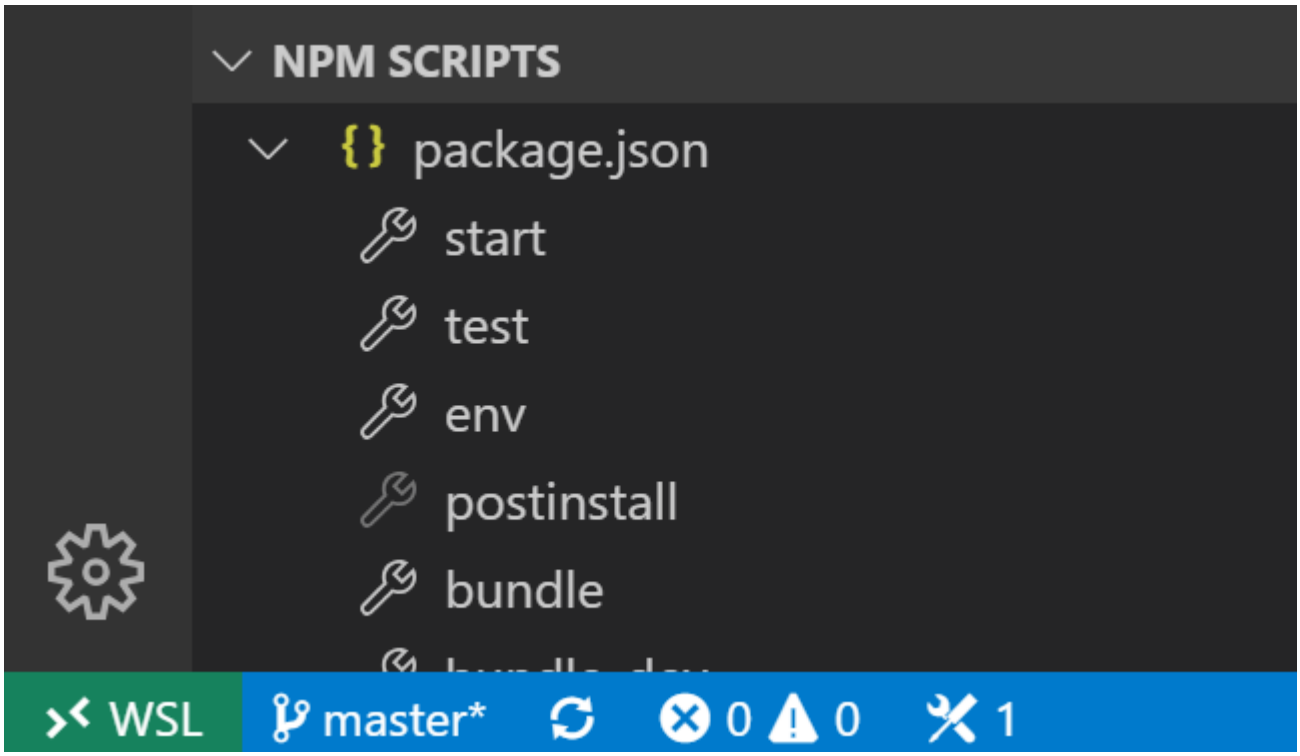
More ways to build/deploy the project were also tested. For one, we tried simply calling

- sudo apt install docker.io

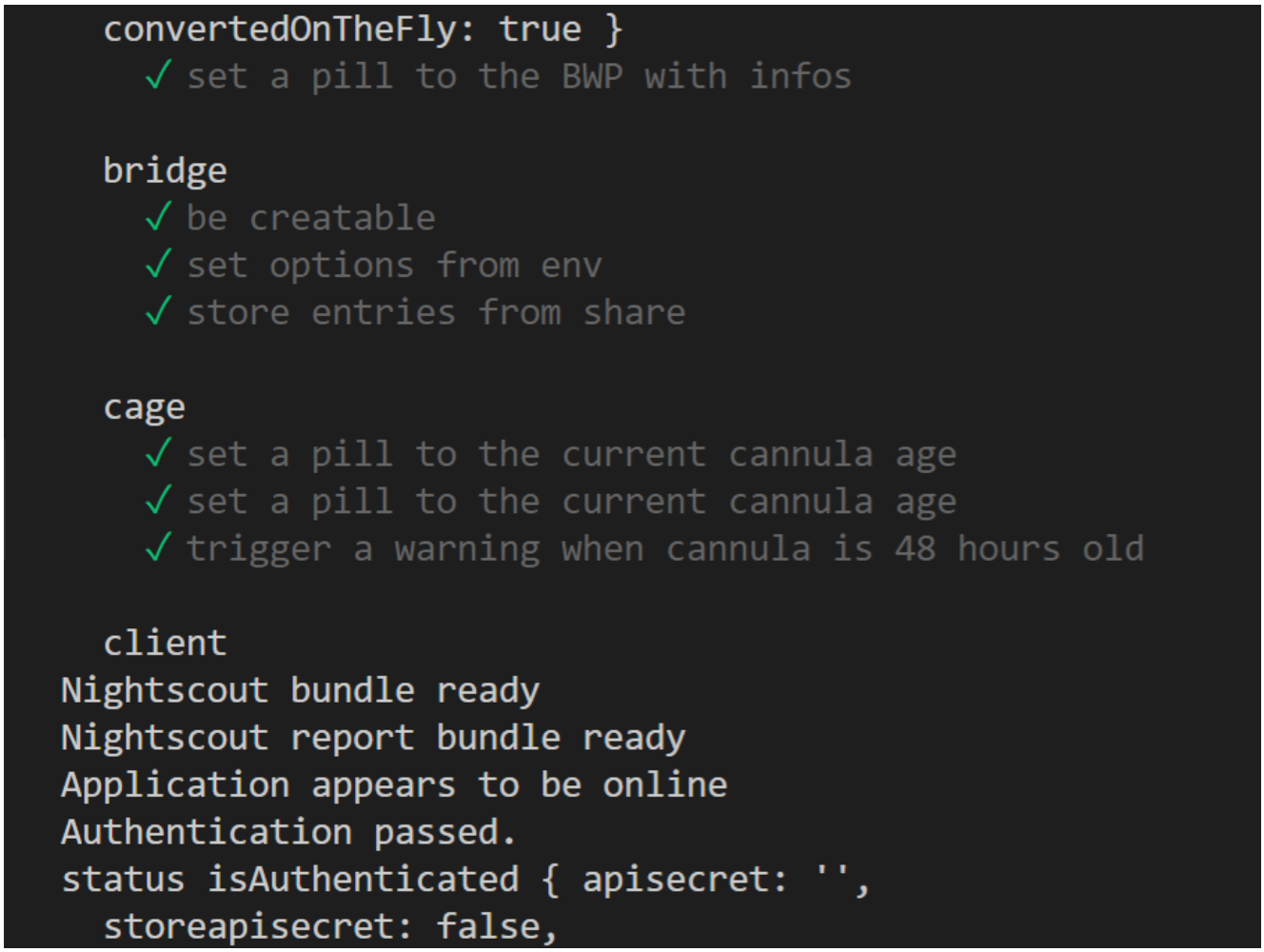
By renaming 'dockerfile.example' to simply 'dockerfile', docker should able to recognize the project structure and run an automated deploy of the project? Seems docker has a few steps before it can do so, though.

With so many ways to succeed, it seems clear the while this project is complex, it's quite well developed. If we understood *any* of the various frameworks which this project is compatible with, it would be extremely simple to deploy our own clone of the project. However, as a graduating senior who has never learned any of this stuff, except a tiny bit as a side note in our 'network security' class, it seems clear our education has failed us *completely* in this regard.

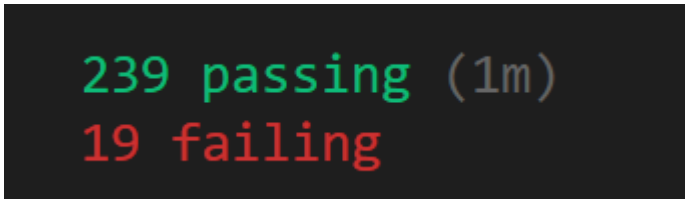
Next we tried to run the tests. We found some things that looked like tests, but being .js they didn't seem runnable on their own from the command line. Then, I realized that my IDE had automatically detected the tests somehow during the NPM build, and there was a clickable button called 'test' that ran the tests made by the Nightscout developers.



Running the tests ran the NPM test environment that had been developed.



The majority of the tests passed, with those that failed probably being due to the fact that we have no idea how to deploy the server so any test that would check for connectivity or server status would (and should) return 'Fail'. Nonetheless, that most passed means that the build was successful, so that's good.



Ultimately, we achieved the objectives of the Chapter, but did so with a massive amount of confusion. Hopefully that was the intended experience.

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