

Simple Coding Homework Assignment

These positions are hands-on and competency in Docker is assumed. It's a given that we also expect clean skills around the use of APIs and some basic development tooling. Before we talk to candidates in person we'd like to have you do a little homework assignment. This should take you about 30-60 minutes at most.

Please follow these instructions *exactly*. Please write a program in the language of your choice to query the <https://macaddress.io/> MAC address lookup API.

Here's the requirements:

- Command line only - no GUI wanted or needed. Please don't do a GUI
- Must run on linux at the command line, accepting a command line parameter and returning the data desired
- Any language you choose, but think about what SRE's use - that's your audience
- You may not use any libraries that implement this API for you
- The challenge is to do a simple REST implementation of this protocol yourself
- Consider security in your solution, even if it's just discussing it in your README
- Program must accept a command line parameter of a MAC address
- Program must query the API for a result over the network
- Program must output the Company Name associated with that MAC address in some useful way to the user at the command line
- Program must be dockerized (i.e. the work to make it into a docker container must be present)
- All source code for the program and Docker file must be in a git repository
- The Git repository must be in your github.com account and publicly accessible (github.com is free for public repos)
- You should assume we will clone your repo and test it personally
- You should "think unix philosophy" and consider how this kind of tool would build your toolbox
- Provide some kind of README explaining your work and how others would use it
- This is an example of your work. Don't make a career out of it but take the time to do a decent job

We look forward to seeing your response.