

Go Skills Test

Estimated time: 2 hours (please no more!)

Tasks:

1. Using Go, write a simple HTTP server and handler that serves a HTML form with 2 fields:
 - a. A hidden input field named "auth" that receives its input value passed from the Go code. This token should be passed as an environment variable to the application.
 - b. A file upload field named "data" (ie, `<input type="file"/>`) that uploads a file that the user selects

(please do not waste time trying to make the HTML form pretty -- we don't need HTML developers, we need Go developers)

2. The form above should POST data to the /upload handler, which should write the received file data to a temporary file.
3. Before accepting any data, you should check that the content type of the uploaded file is an image, and that the auth token matches. If the submission is bad, please return a 403 HTTP error code. Images larger than 8 megabytes should also be rejected.
4. Write the image metadata (content type, size, etc) to a database of your choice, including all relevant HTTP information.
5. Do a short 1 or 2 paragraph write up with information on building/running the application if relevant / necessary or non-standard.

Notes:

1. Feel free to use open source Go packages -- we're not looking for developers to constantly reinvent the wheel, but for developers who are familiar with Go and able to make use of existing packages. This is a skills based assessment. However, the use of heavy HTTP frameworks like gin or beego is discouraged.

2. It is not a problem if you are not able to complete all of the above in the span of 2 hours. Part of this assessment is to determine what progress you are able to make in that timeframe.
3. When you are done, please commit all work to a Git repository, and **email me** the .tar.gz including the .git directory. Please **do not** make the solution public.
4. If you have time, please properly comment your code and use environment variables or flags where possible.

Looking forward to your submission!