Full Stack Engineer Assignment

The goal is to secure a public IPFS API with simpleAPI keys (simply by providing a custom HTTP header) and build an app to manage the keys and view logs/metrics.

Estimated time: 4-8 hrs.

Specifications

- Install a local IPFS node. Ensure it is running and the default API port 5001 is not accessible by your app directly (it should be accessible only by a proxy server - see remaining steps) .
- Create a React application with simple email/username + password authentication that lets you create new or disable existing API keys
- Create a proxy server that handles API Key authentication and forwards request to IPFS API
- When requests are made to the proxy server , we should log them in a db with relation to API key
- Disabling the API key should block the API request when using that key
- Display the requests in the application under each API key that was created
- Provide simple README doc, so we can properly build & run it
- Bonus: for logging metrics (request count, bytes transferred)

Written Questions

How would you improve this assignment for a production ready solution (e.g., security, deployment)? Describe IPFS and compare it to other protocols e.g., HTTP?

Assessment

- Completion/functionality - 10 pts (are all the pieces working as described?)
- Code quality - 5 pts (structure, style, package selection, efficiency)
- Documentation - 5 pts (could be as comments or a quick readme)
- Written questions - 5 pts

Useful Links

- https://docs.ipfs.io/install/command-line/