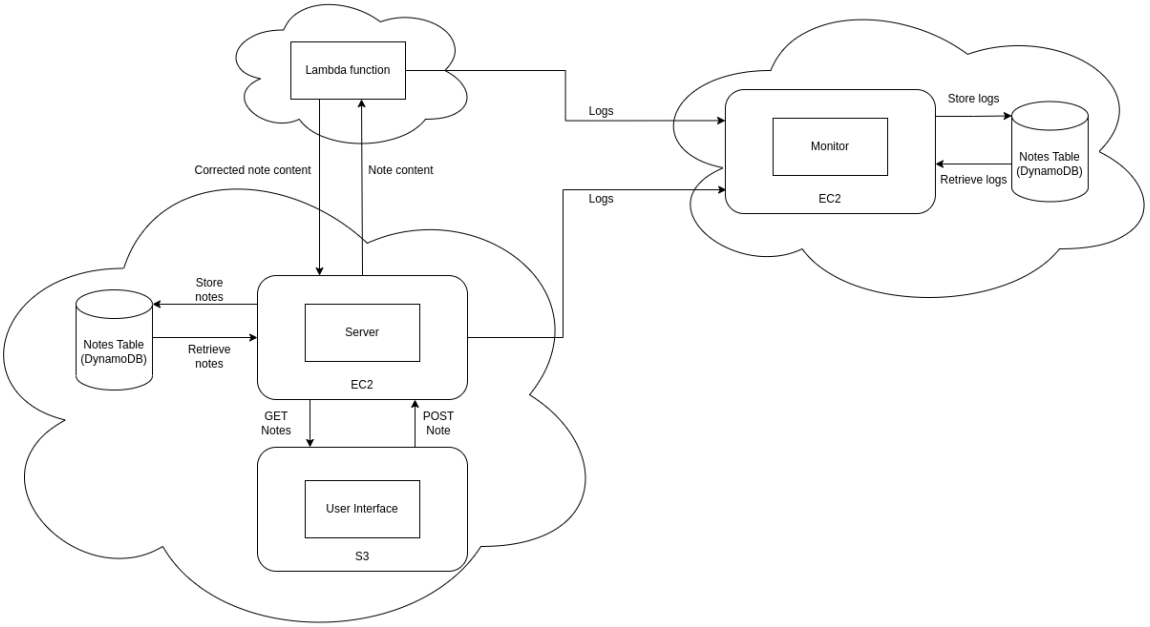
Cloud Components Report

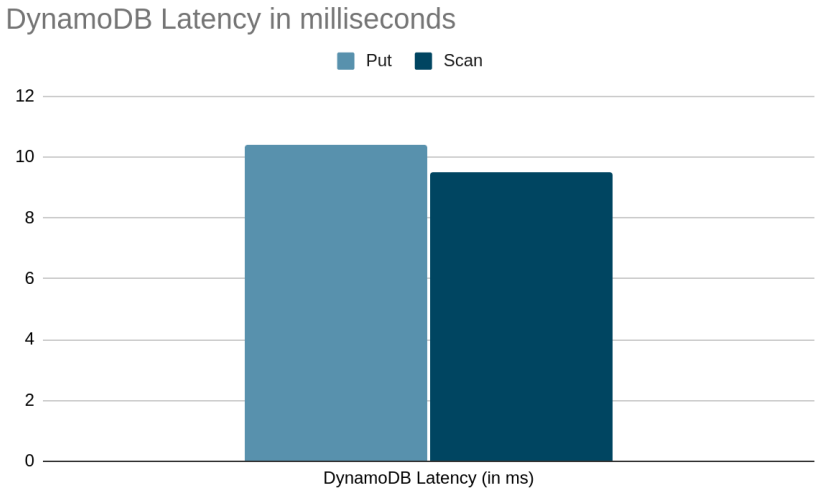
The presented system is an example of a note-taking application. The user interacts with the distributed platform through an user interface which has the function of facilitating note creation and displaying all of the user's notes.

The architecture of the system consists of three components deployed separately of each other, using AWS strictly as a base for development.



1. Main component

The main component is represented by the server-side code that mediates between the user interface and the database. In this case, all cloud services used (DynamoDB for storage, EC2 for hosting the server-side code, S3 for hosting the static client code) were deployed in the same region (eu-west-1, Ireland). This had a positive effect on latency.



2. AWS Lambda FaaS

The FaaS component performs note content checking such that there are no repeated punctuation marks (excepting period, exclamation mark and question mark).

The function's execution duration is 21ms on average.

3. Monitor

The monitor component's purpose is storing logs from the other two components for: later access, statistics, and monitoring in general. The logs are stored in DynamoDB. The latency for both put and scan operations have the same latency as in the first component's case.