

Cloud functions

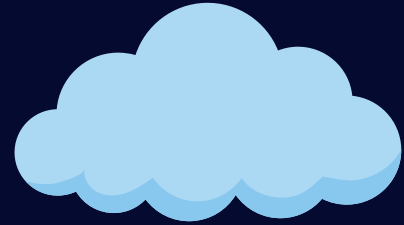
Appendix B

In this section

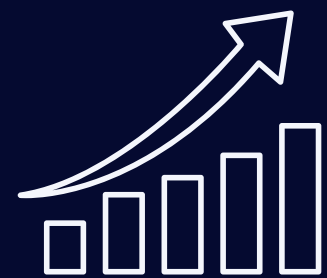
- Intro to Cloud functions
- News feed feature
- Data consistency



Introduction to Cloud Functions



Run in the cloud



Auto scale, highly available and fault tolerant



No servers to provision, manage, patch or update



First 2m free per month
\$0.40 per million after

Why use them?

Security

Cloud functions can write to any part of firebase with full permissions

Example use case: Follow feature. Create document in another users profile, update another users profile.



Performance



Cloud functions run in the cloud, not the client.

Example use case: Set main photo. This may need to be set in the events, the followers, the newsfeed etc.

Scheduling

Cron jobs can be used to schedule a cloud function.

Example use case: Cleaning up the newsfeed and deleting documents created > 1 month ago



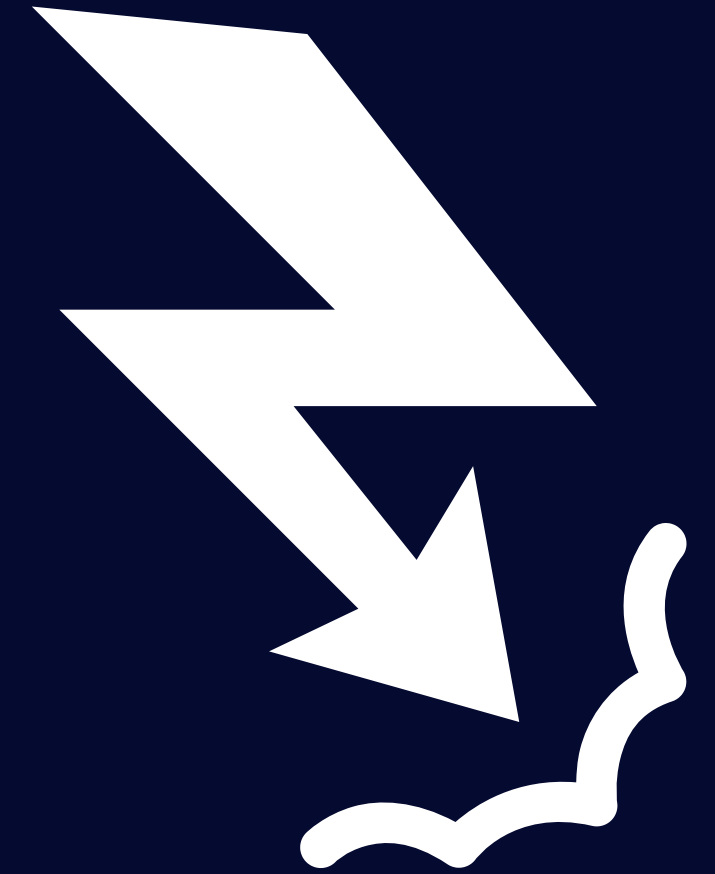
Firestore Triggers

onDocumentCreate

onDocumentUpdate

onDocumentDelete

onDocumentWrite



The goal of this section