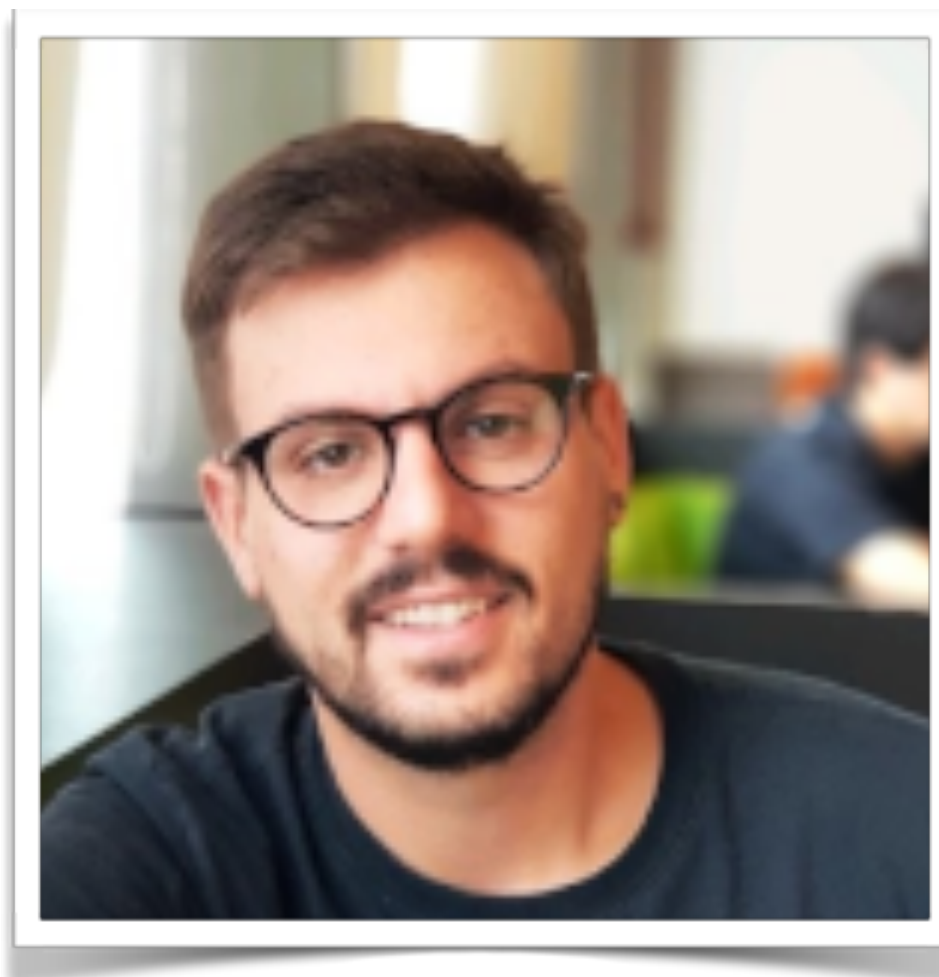




CRIANDO UMA APLICAÇÃO SERVERLESS COM CQRS, AZURE FUNCTIONS, BLOB STORAGE E COSMOSDB

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Github - <https://github.com/trturino>

O QUE É SERVERLESS?

aplicativos que dependem
significativamente de serviços de terceiros

O que é Serverless? | **Vantagens**



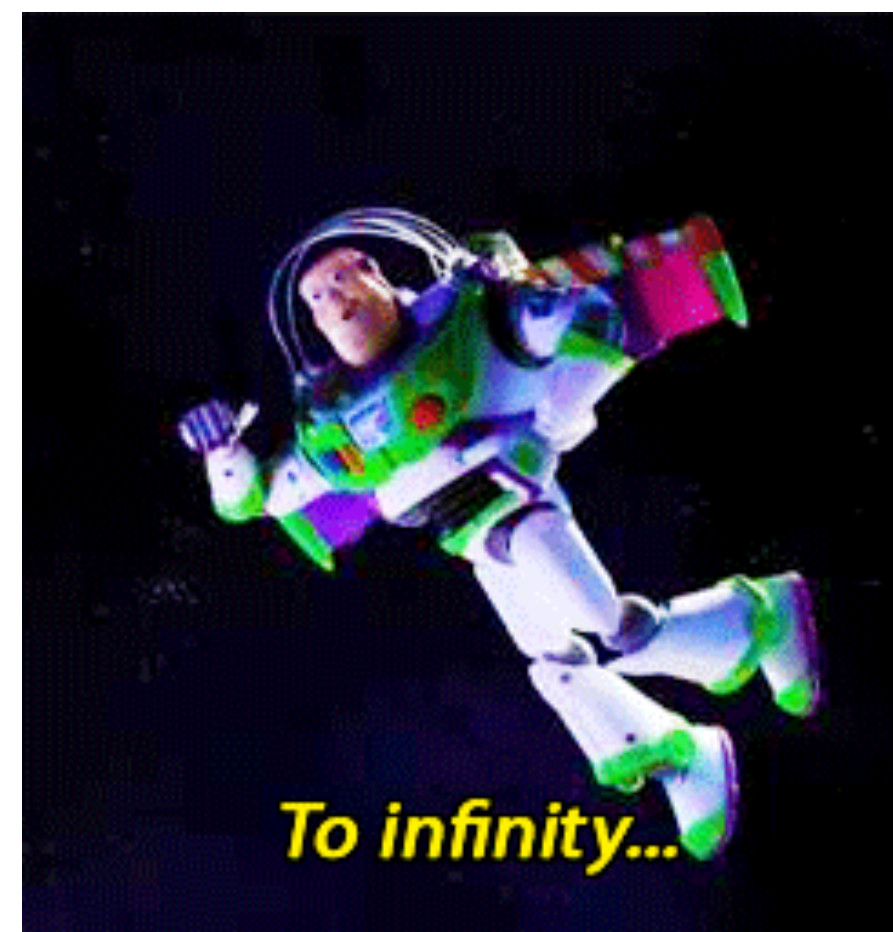
Pague por execução (com free tier)

O que é Serverless? | **Vantagens**



Não precisa gerenciar servidores

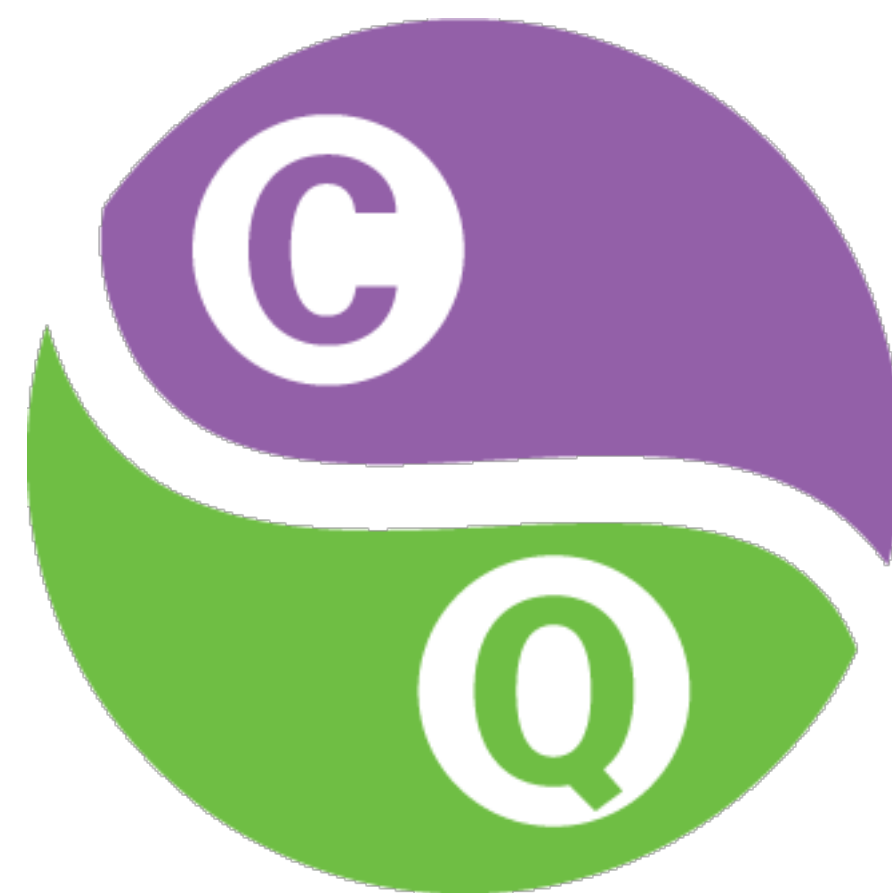
O que é Serverless? | **Vantagens**



Escalonamento infinito

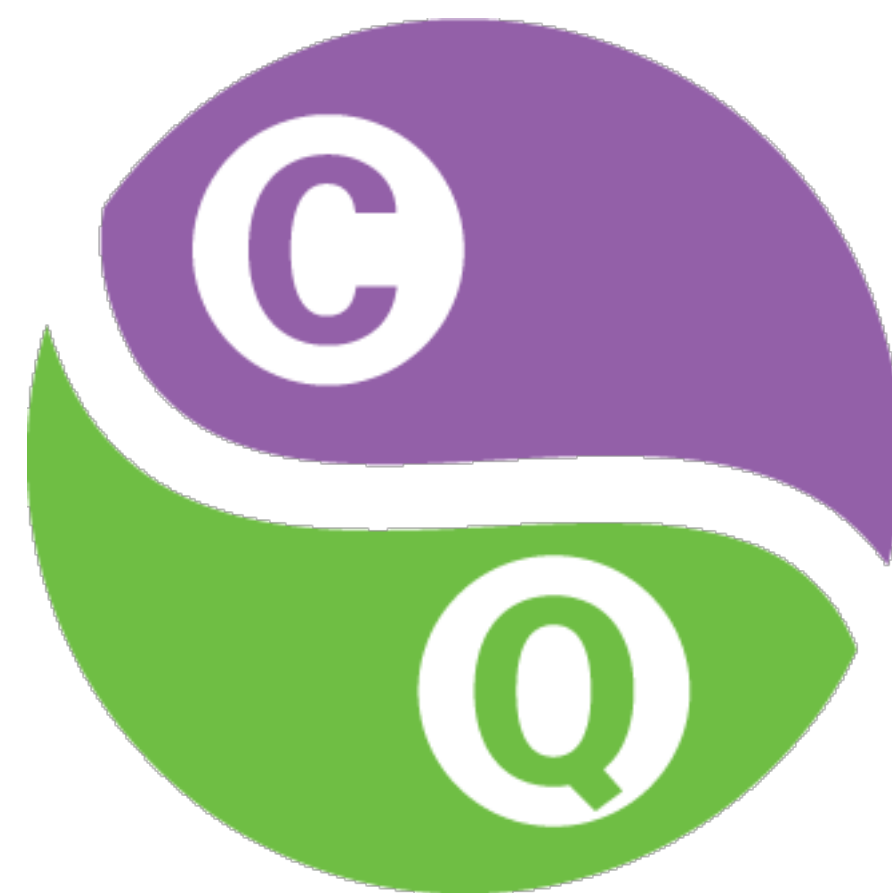
CQRS

CQRS | O que é?



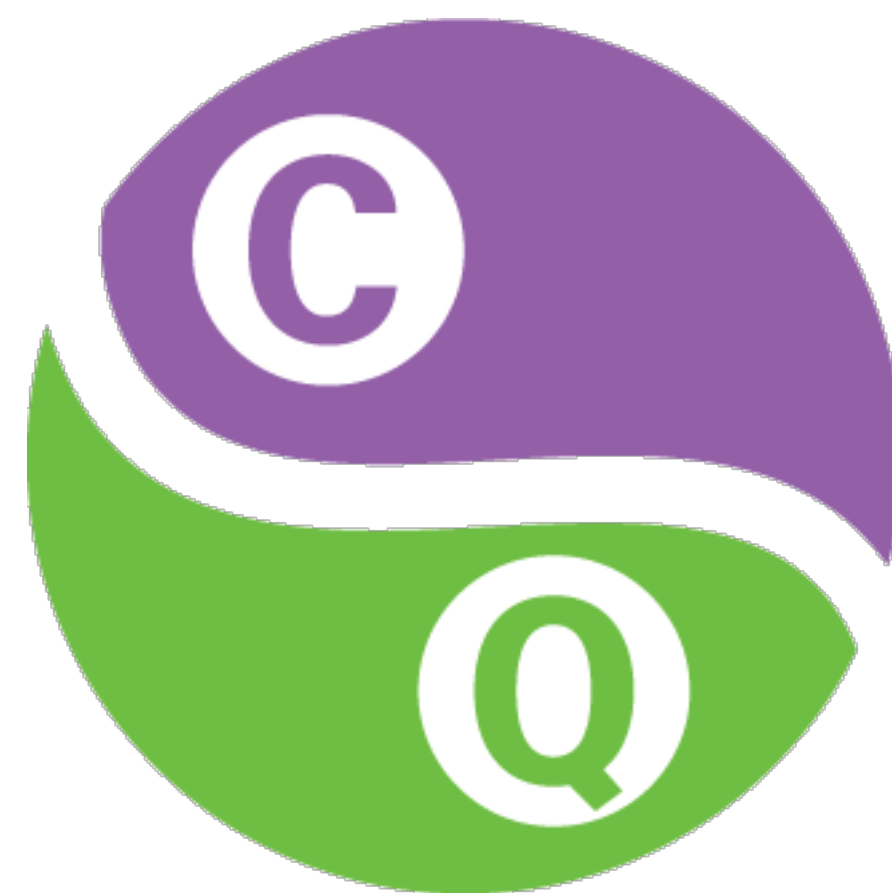
Command Query Responsibility Segregation

CQRS | O que é?



Orientado a mensagens

CQRS | O que é?



Command —> Escrita

Query —> Leitura

AZURE FUNCTIONS

Azure Functions | O que é?



Código hospedado em nuvem

Azure Functions | O que é?



Varias triggers (Timer, HTTP, CosmosDB, Blob Storage e Service Bus)

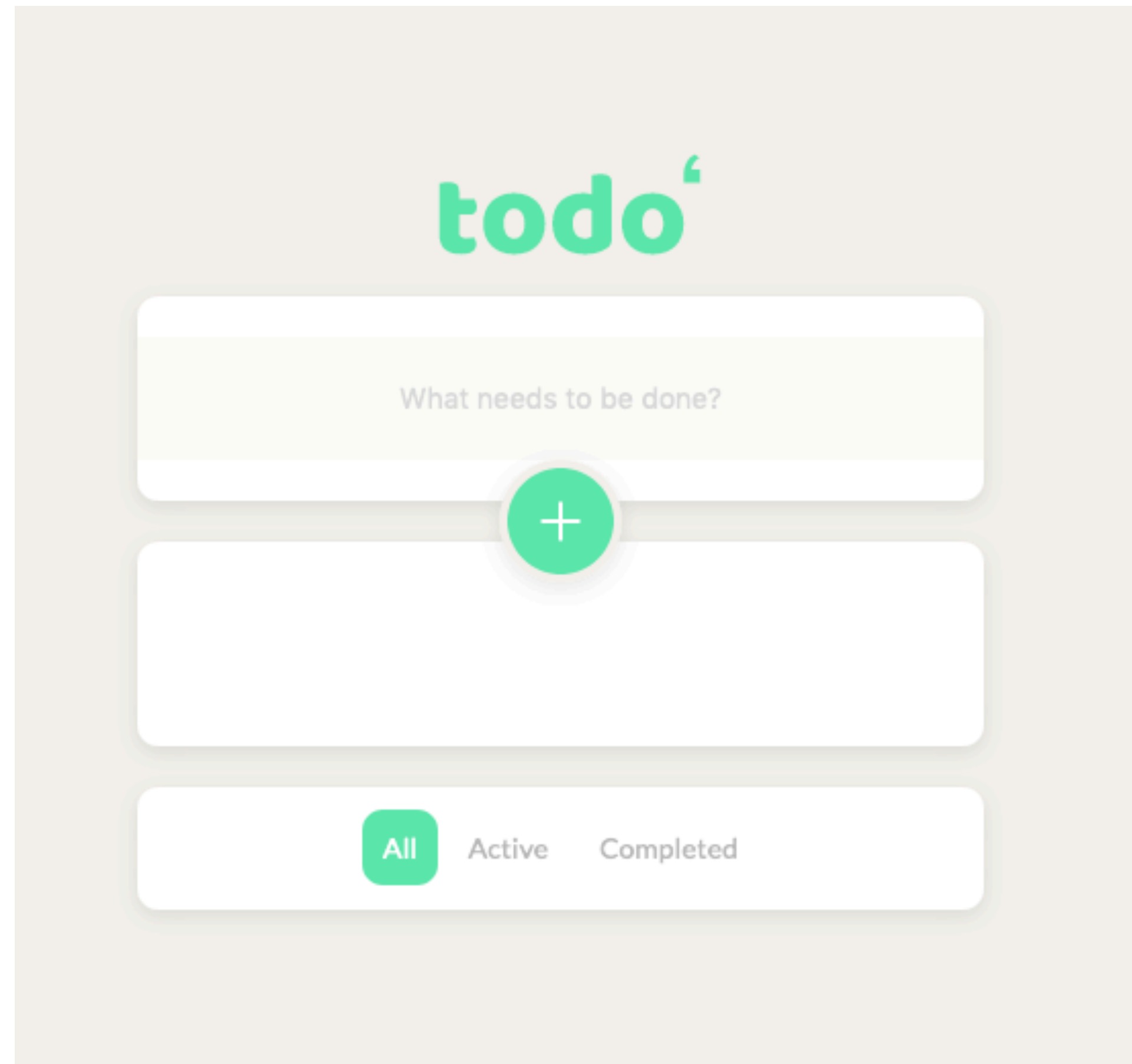
Azure Functions | O que é?



Tempo de inicialização

TODO APP

Todo APP



<https://turino-tdc.azureedge.net/>

AZURE BLOB STORAGE

Azure Blob Storage | O que é?



Armazenamento de arquivos na nuvem

Azure Blob Storage | O que é?



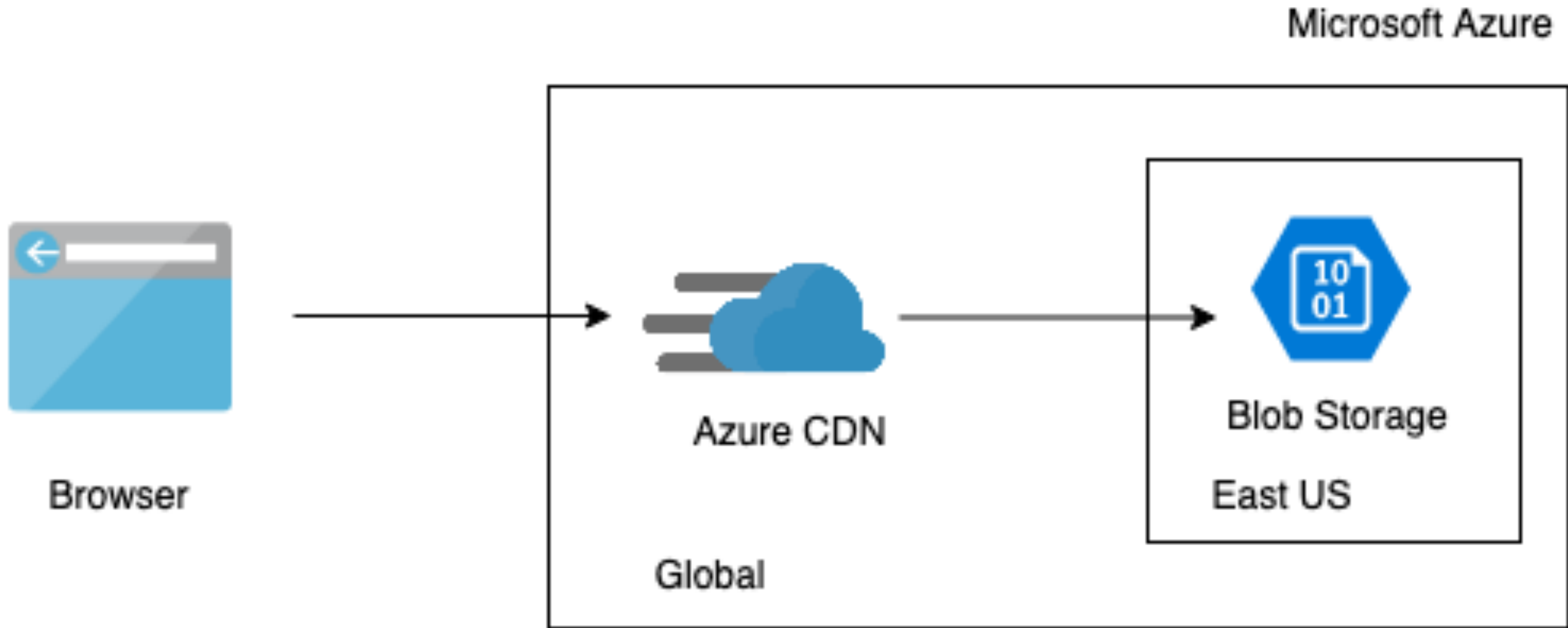
Pago por transferencia de dados

Azure Blob Storage | O que é?



Servidor de arquivos estáticos (static files)

Todo APP | Front End



Todo APP | Endpoints

	Endpoint	Tipo
GET	/todo	QUERY
POST	/todo	COMMAND
DELETE	/todo	COMMAND
PUT	/todo/done	COMMAND
GET	/todo/completed	QUERY
GET	/todo/pending	QUERY

Todo APP | **Function Monkey**

Framework CQRS com Azure Functions

<https://functionmonkey.azurefromthetrenches.com/>

AZURE COSMOS DB

Azure CosmosDB | O que é?



Distribuido globalmente

Azure CosmosDB | O que é?



Múltiplas APIs

Azure CosmosDB | O que é?



Throughput ajustável

COSMONAUT

Todo APP | **Cosmonaut**



ORM para CosmosDB

Todo APP | Cosmonaut



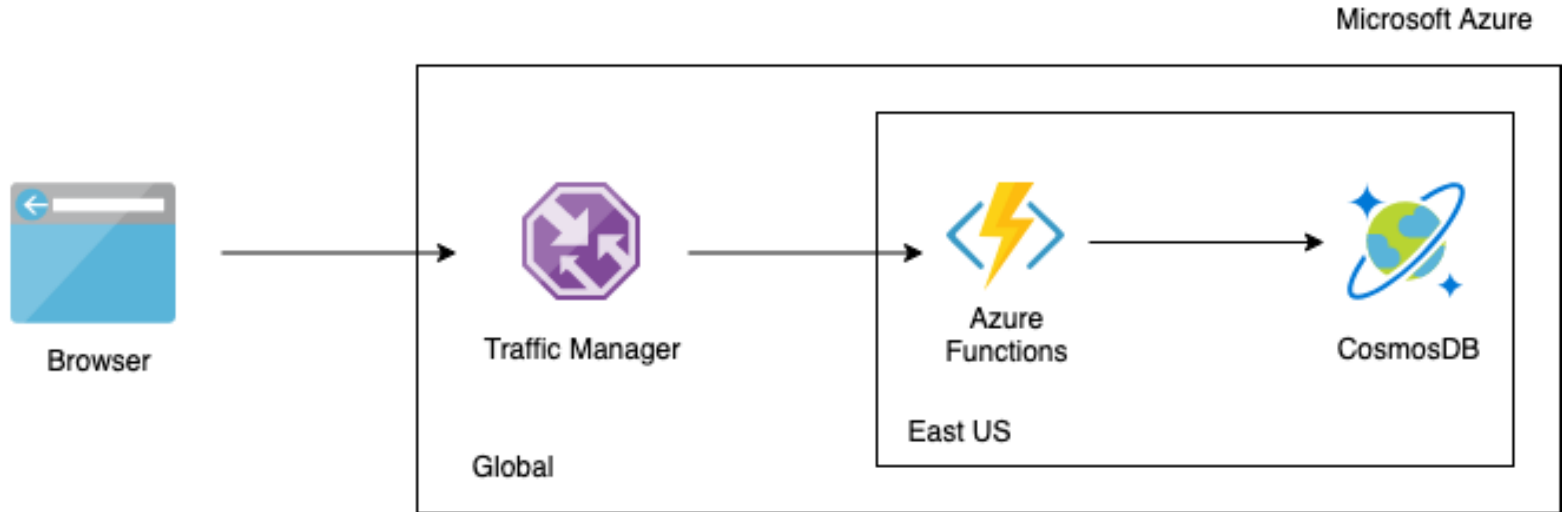
Possui API nativa para lidar com a paginação
do CosmosDB

Todo APP | Cosmonaut

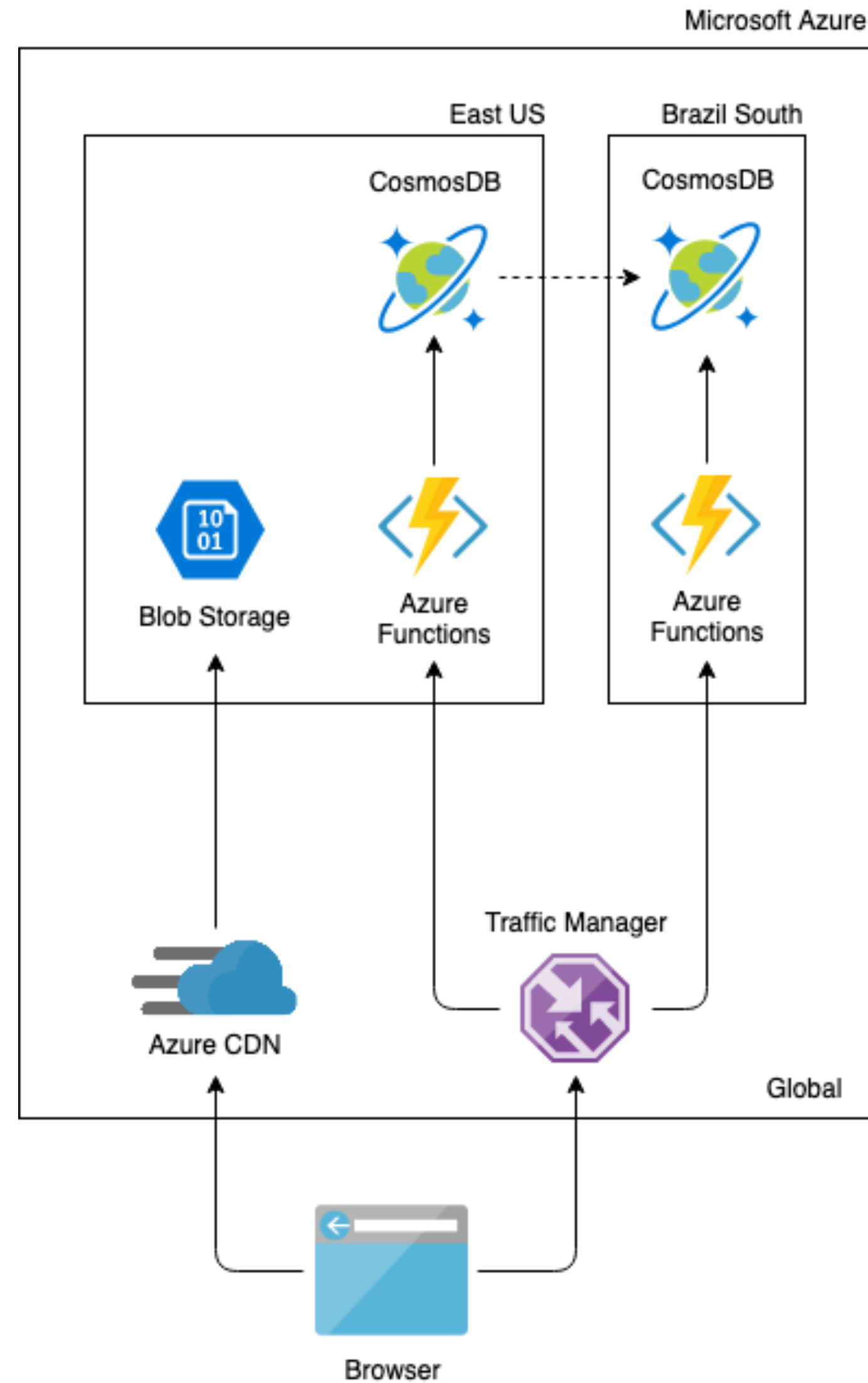


Lida automaticamente com erros 429
(throughput excedido)

Todo APP | Backend



Todo APP | Arquitetura



X



<https://github.com/trturino/ToDoServerlessApp>

Referência | Links para mais conteúdo

<https://docs.microsoft.com/en-us/azure/azure-functions/>

<https://docs.microsoft.com/en-us/azure/cosmos-db/>

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-static-website>

<https://functionmonkey.azurefromthetrenches.com/>

<https://github.com/Elfocrash/Cosmonaut>

<https://docs.microsoft.com/en-us/azure/architecture/patterns/cqrs>

OBRIGADO.



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