Mohamed Benali Kochava's Miniproject documentation

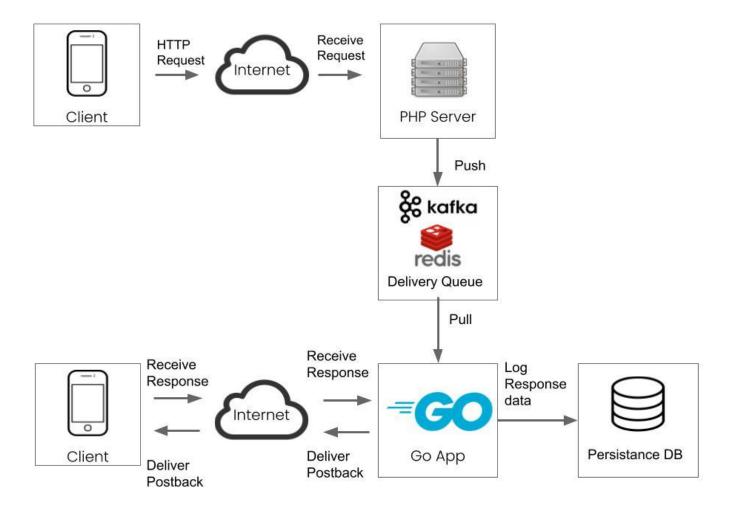
General architecture	2
PHP documentation	3
Instructions	3
Configuration	3
Install dependencies	3
Apache Kafka server (Windows 10)	3
Instructions	3
Configuration:	3
GO documentation	3
Instructions	3
Configuration:	3
Install dependencies	4

General architecture

There are three main parts:

- PHP server
- Delivery Queue
- Go App

The process starts with a remote client. This client sends a REST HTTP request to the PHP Server. The server pushes a postback object on a Delivery Queue (Apache) for each data object on the request. In parallel, there is a Golang App that pools the Queue to pull postback objects. For each pull, it delivers the postback object to the given HTTP endpoint. Then the response is stored in a persistent database (log text file).



Both the Delivery Queue and Go App can be monitored to troubleshoot the system.

PHP documentation

Instructions

- The main php service is "ingest.php" file.
- To change apache kafka's ip modify the constant BROKER_ADDRESS

Configuration

- PHP version: 7.4
- XAMPP 3.3.0 to manage the server

Install dependencies

- composer require nmred/kafka-php

Apache Kafka server (Windows 10)

Instructions

- To start the service execute the following commands in the same order: .\zookeeper-server-start.bat ..\..\config\zookeeper.properties .\kafka-server-start.bat ..\..\config\server.properties

Configuration:

- Apache Kafka: 3.2.0 (install release from apache kafka web page to use)

GO documentation

Instructions

- The main go service is "main.go" file.
- To change configurations such as logs or apache kafka change the constants values
- Logs can be found on "logs_file"

Configuration:

- Golang version: 1.18

Install dependencies

- include "github.com/segmentio/kafka-go" // external