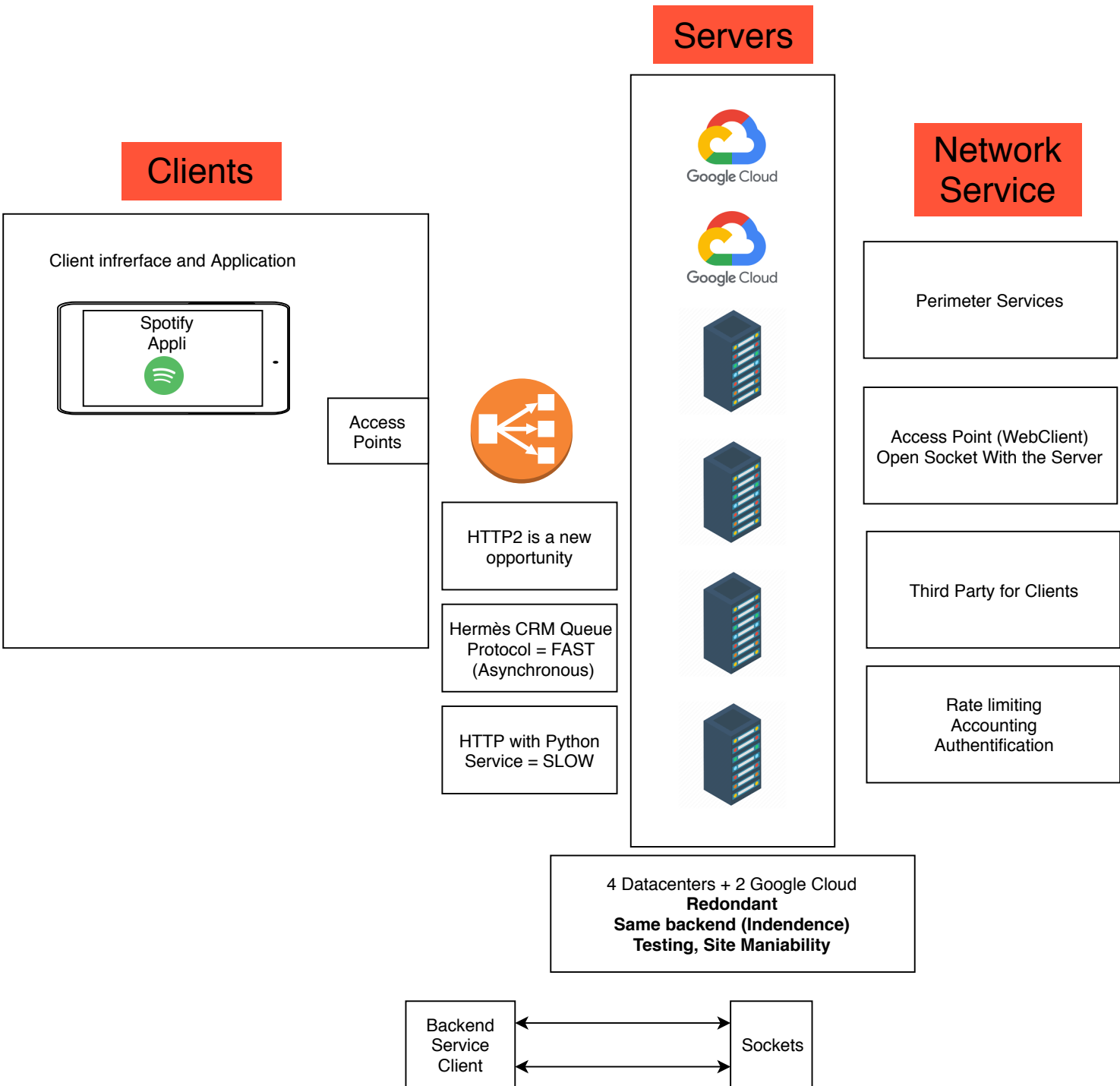
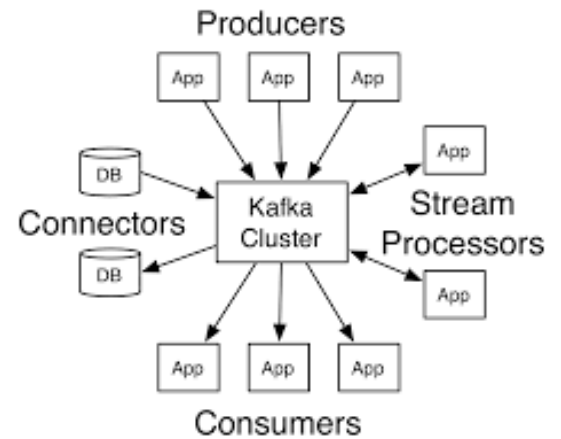


Previous Architecture

Before migration to Google Cloud Platform and update of the tools





Front-End Appli

View Services:
- Needs of the client
- Search query

Search View

Render The Interface

Core
- Audio Playback
- Offline Support

Rendering:
- Chrome Web Processor
- iOS
- Android

Data Oriented

Entities

Track Metadata

Play Logs

Search

Client Artist

Client User

Playlist

Discover

Big Data Infra

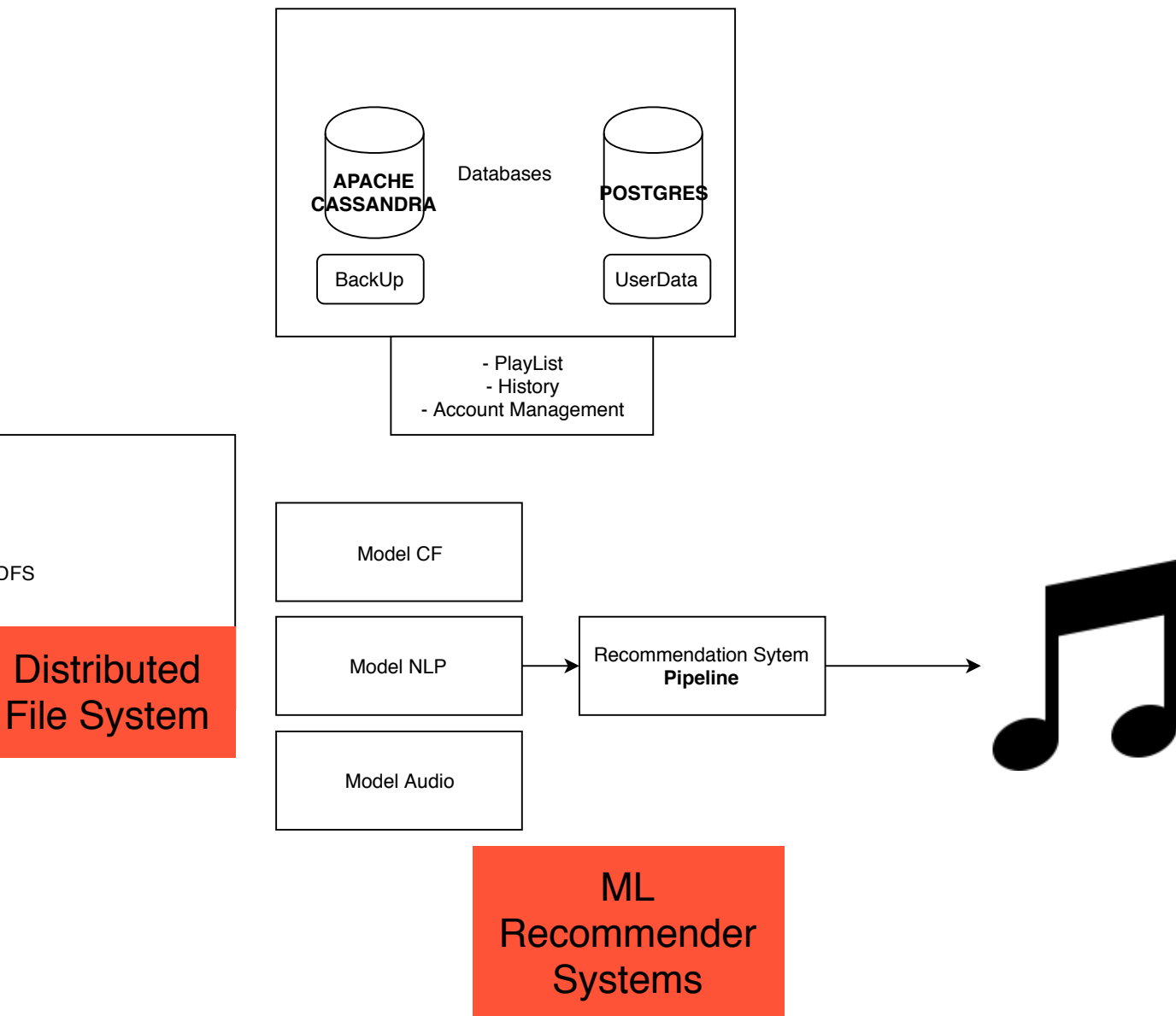


Kafka

App DB
Interaction

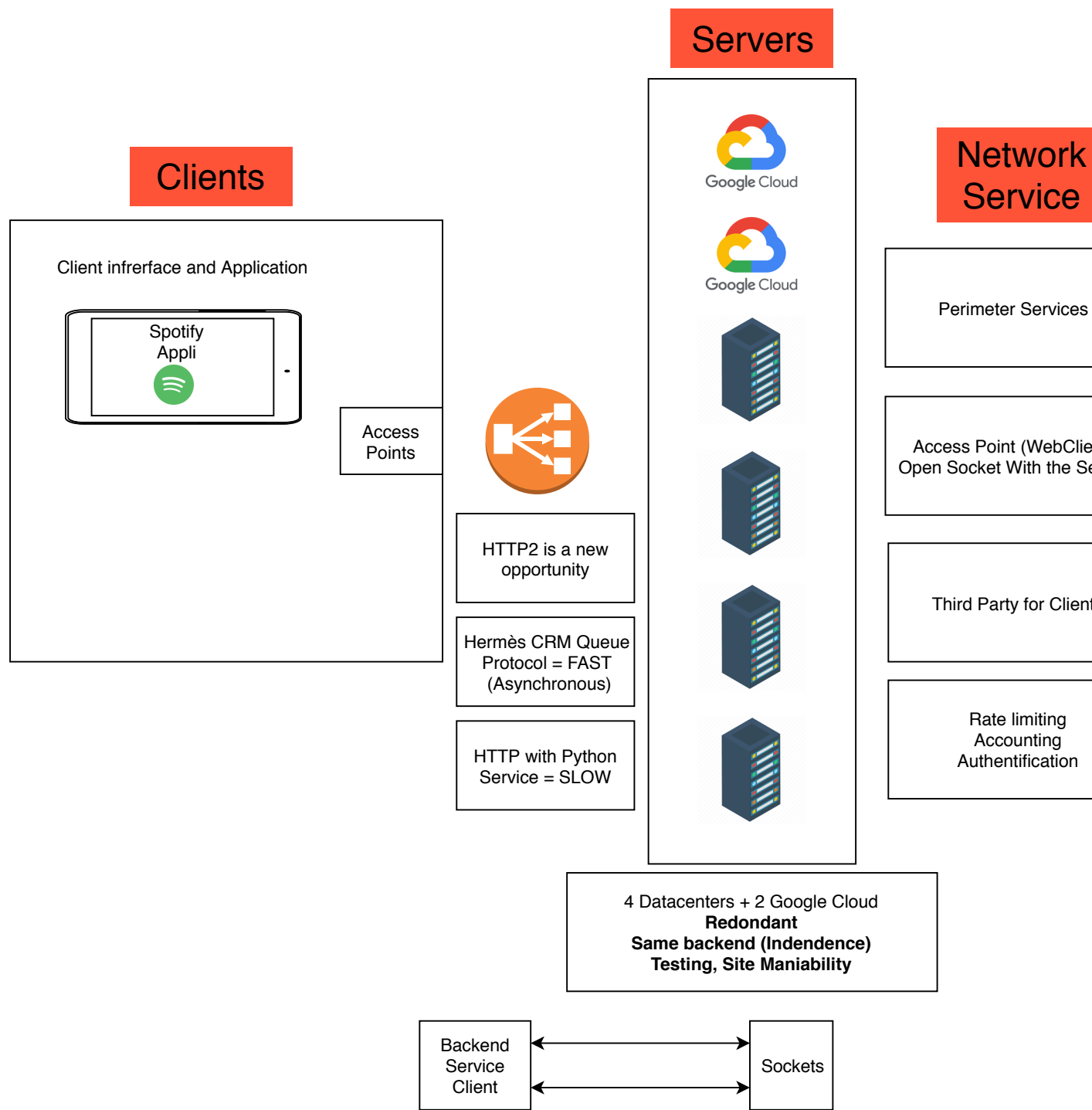


Replication and Scalability



Current Architecture

Before migration to Google Cloud Platform and update of the tools



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Data Oriented

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Play Logs



Cloud
Pub/Sub



Cloud
Bigtable

Big Da

Replication and
Scalability



Google Cloud Platform

Data Infra

Hadoop
HDFS

HDFS

Distributed
File System

Model CF

Model NLP

Model Audio

Recommendation Sytem
Pipeline

ML
Recommender
Systems



Cloud
Dataflow