

Overview

Web
Applications

Background
Services

Telephony
Services

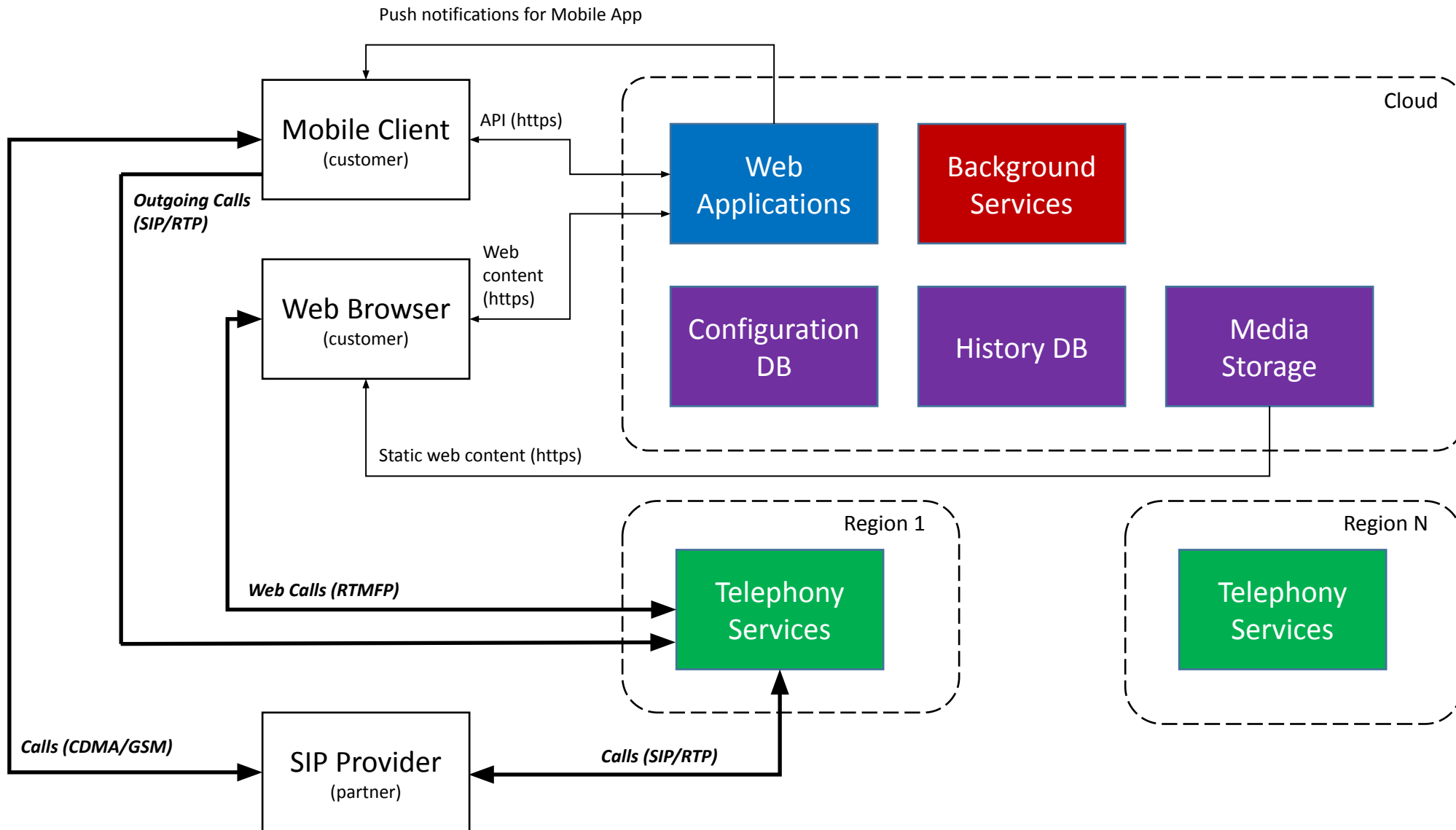
Configuration
DB

History DB

Media
Storage

Installer


















Functional Overview
























Web Applications Key Features

- Works under IIS
- Works at VMs, Scalable by VMs
- Built with MVC 4.0
- Could be deployed at multiple domain names (multiple Geo regions)
- Almost all applications could be Balanced by External Balancer for High Availability
- Used for user interaction: sign-up procedure, IVR configuration, Voicemail listening, Activities management, etc.) including API for iOS and Android clients

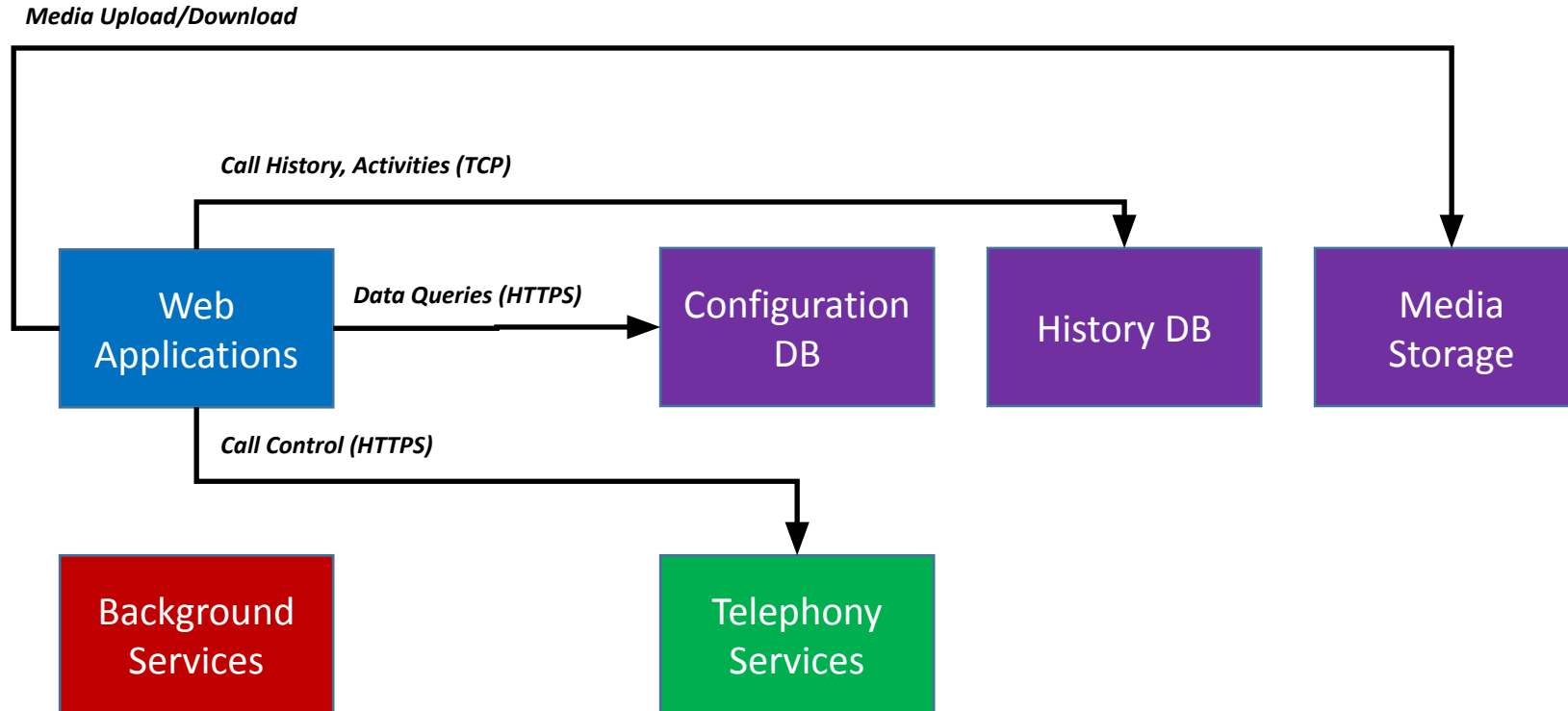
Web Applications List (US)

 Yola	 Wix TollFree	 Wix React	 ShopifyApp	 GoDaddy
 MightyCall Store	 ReactStore (UI + API)	 New Store (UI + API)	ClickConnect Button	Contact API
 MightyCall WebUI (UI + API)	File Handler	 Combined Login (obsolete)	 Infratel Phone Numbers	 Recurly
Mobile API	 APS API	 Phone Market API	 Public API	 CountryCom
Metrics API	SMS Listener	 Yandex App	Blob Handler	Push Proxy

Web Applications List (RU)

  Yola	  Wix TollFree	  Wix React	  ShopifyApp	  GoDaddy
 MightyCall Store (obsolete)	 ReactStore (UI + API)	 <i>New Store</i>	ClickConnect Button	Contact API
 MightyCall WebUI (UI + API)	File Handler	 Combined Login (obsolete)	Infratel Phone Numbers	Recurly 
Mobile API	 APS API	 Phone Market API	 Public API	 <i>CountryCom</i>
Metrics API	SMS Listener	 <i>Yandex App</i>	<i>Blob Handler</i>	<i>Push Proxy</i>

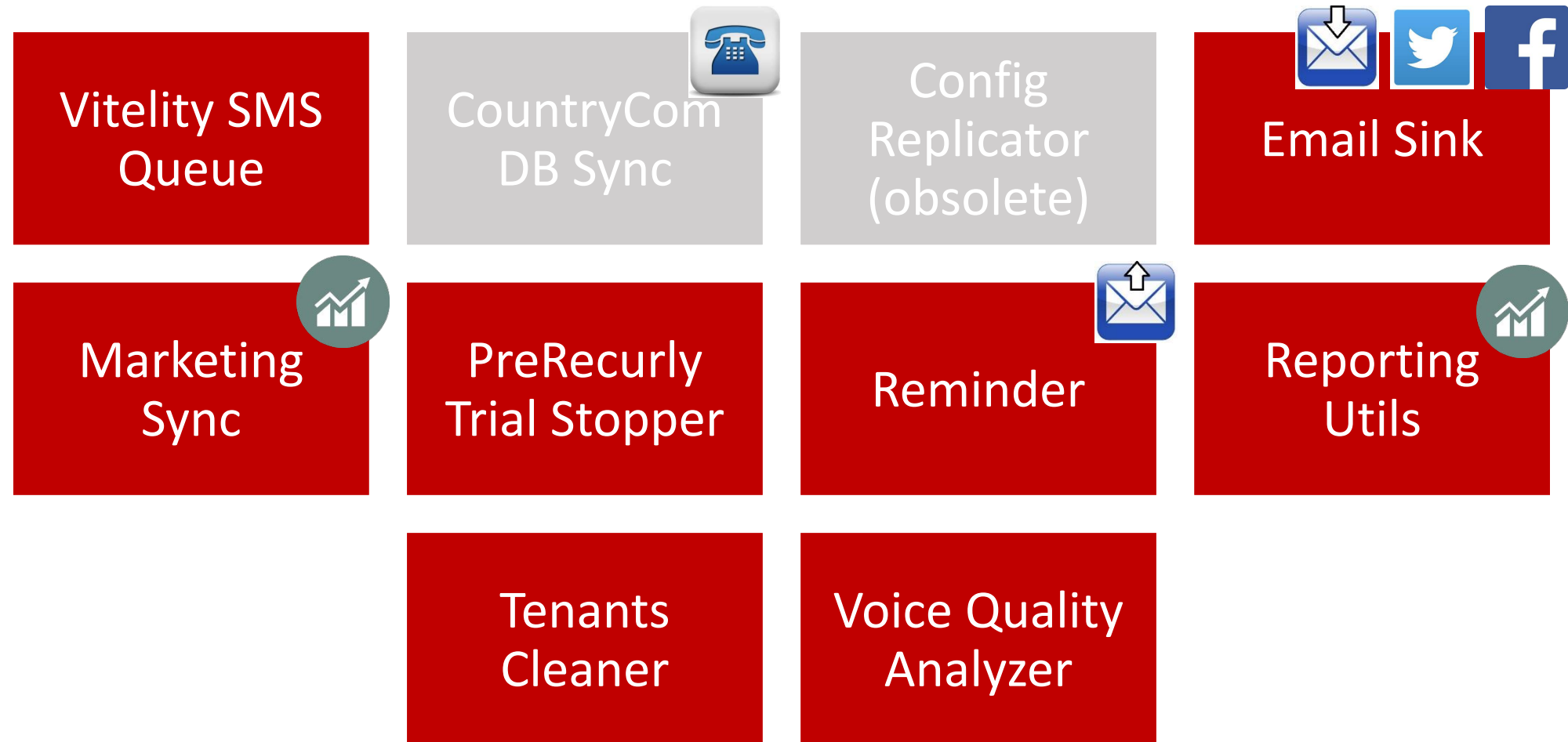
Web Applications Interaction



Background Services Key Features

- Works as standalone applications or Windows Services
- Works at VMs, Scalable by VMs
- Could be deployed at multiple domain names (multiple Geo regions)
- Used for background processing tasks: report generation, trial deactivation, data cleanup

Background Services List (US)



Background Services List (RU)

Vitelity SMS Queue

CountryCom DB Sync



Config Replicator (obsolete)

Email Sink



Marketing Sync



PreRecurly Trial Stopper

Reminder



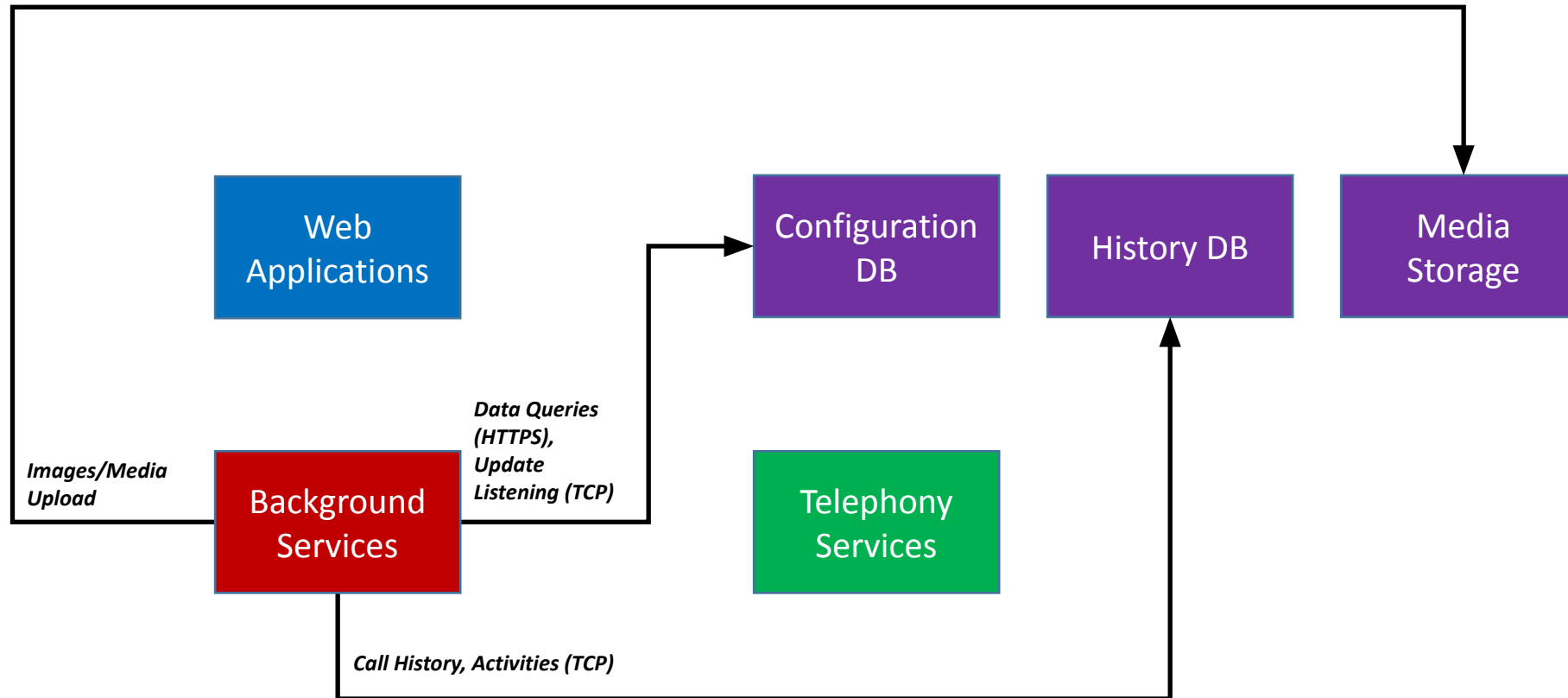
Reporting Utils



Tenants Cleaner

Voice Quality Analyzer

Background Services Interaction



Configuration DB Key Features

- Used for storing Tenants configurations (users, IVRs, etc.)
- Based on Level DB
- Master-Master Replication
- Provides Update listening functionality for Telephony services and Background services
- High Availability (3 Instances of data)
- Geo-Sharding
- TBD

Configuration DB

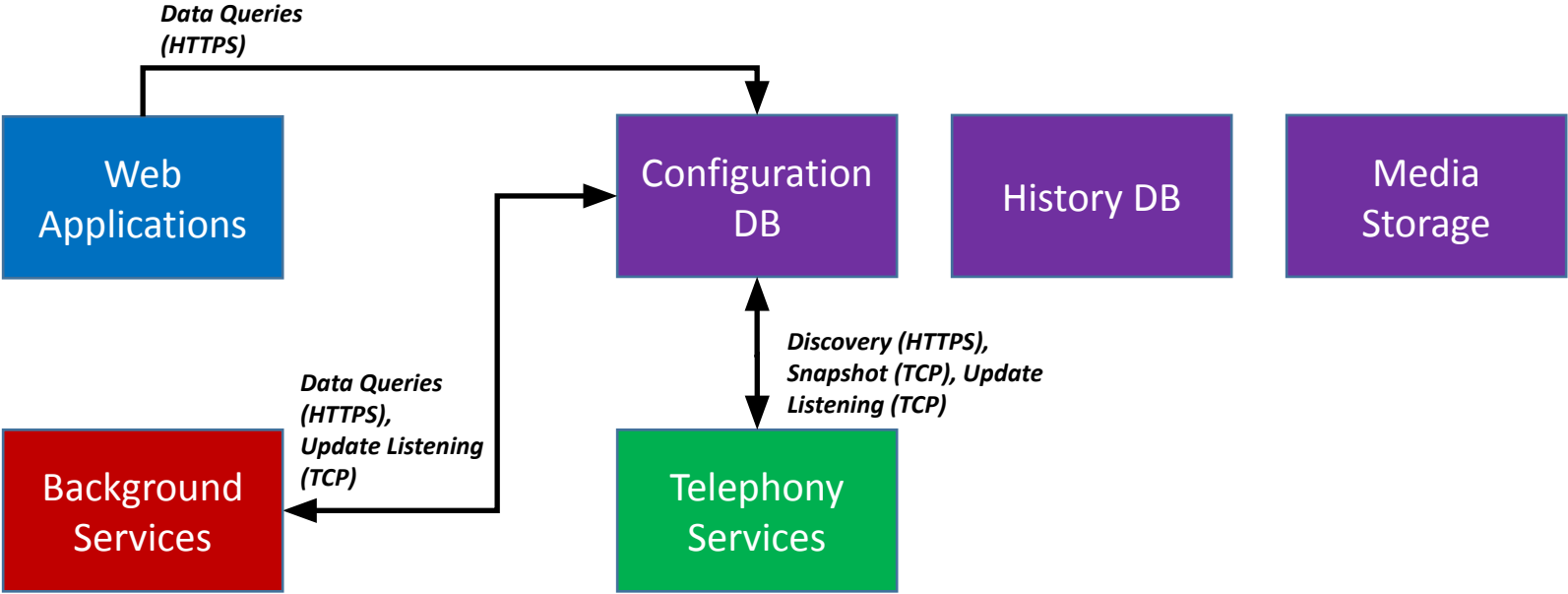
Region 1

Region N

- **Shard 1** (Instance 1)
 - ConfigDB Service
 - SPREAD
 - Level DB
- **Shard 1** (Instance 2)
 - ConfigDB Service
 - SPREAD
 - Level DB
- **Shard 1** (Instance 3)
 - ConfigDB Service
 - SPREAD
 - Level DB

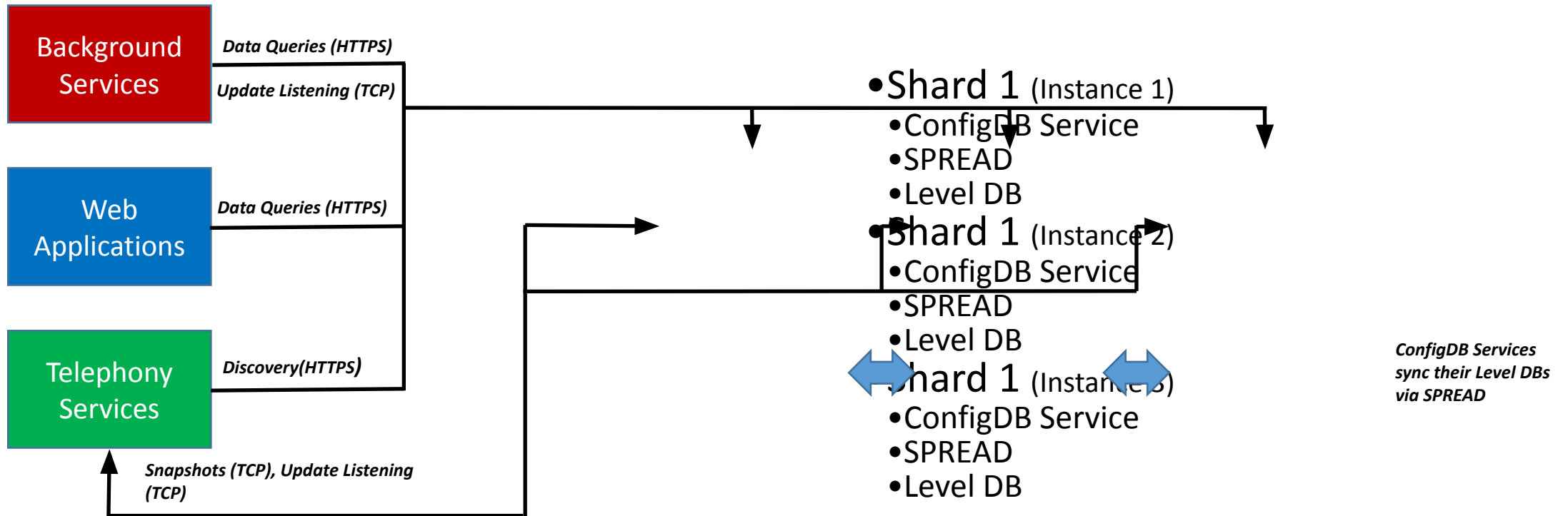
- **Shard N** (Instance 1)
 - ConfigDB Service
 - SPREAD
 - Level DB
- **Shard N** (Instance 2)
 - ConfigDB Service
 - SPREAD
 - Level DB
- **Shard N** (Instance 3)
 - ConfigDB Service
 - SPREAD
 - Level DB

Configuration DB Interaction (1/2)



Configuration DB Interaction (2/2)

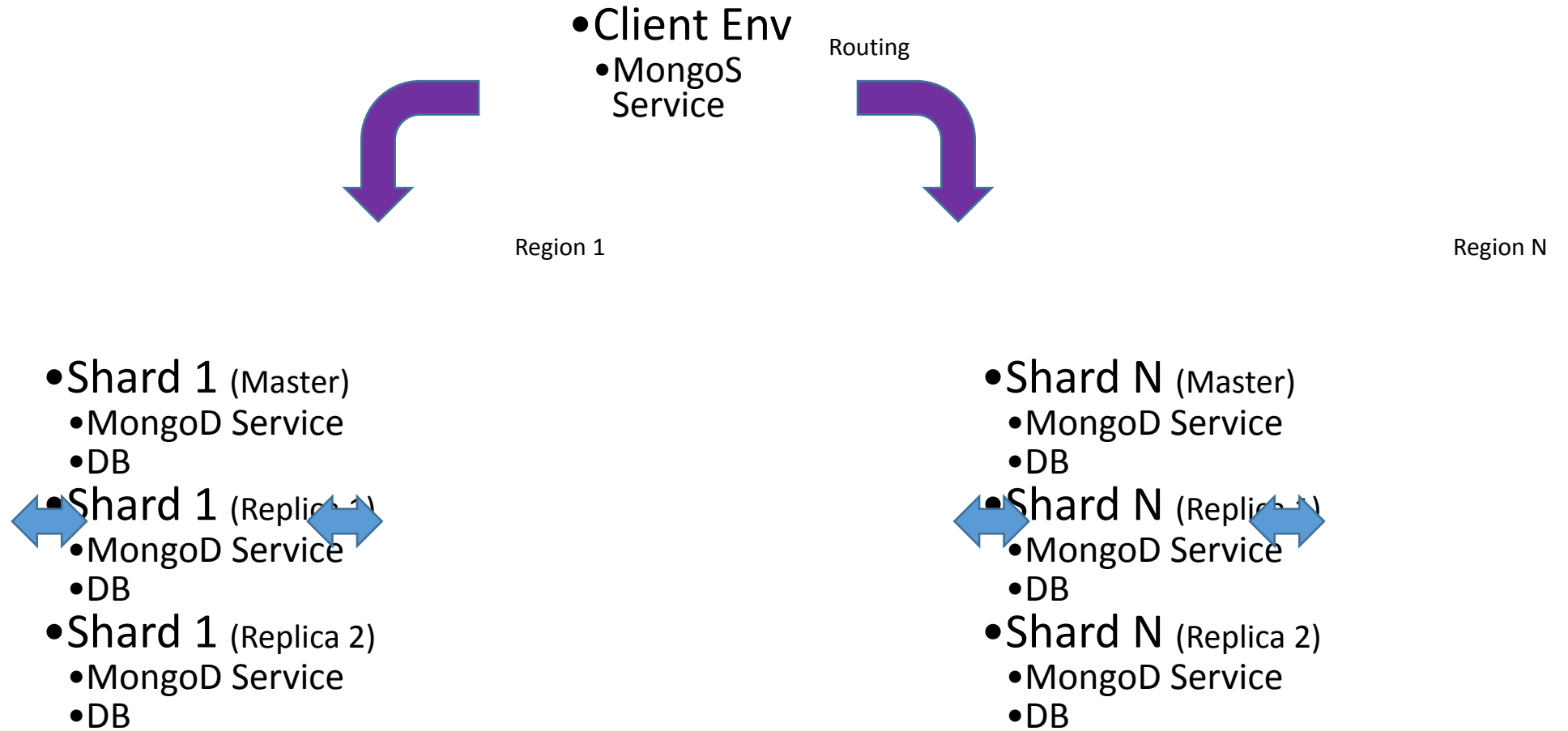
Region 1



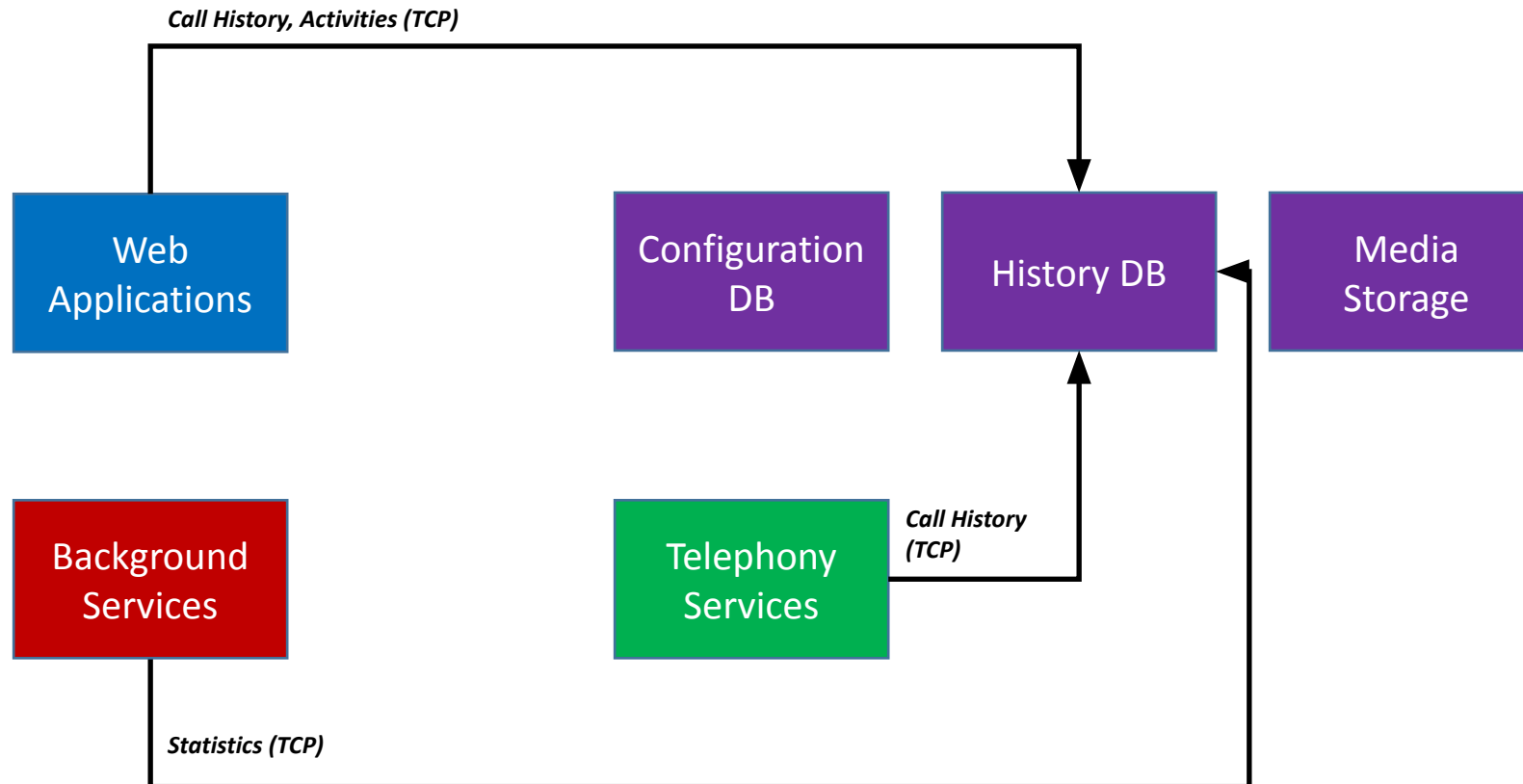
History DB Key Features

- Used for storing Call Logs, Activities, Statistics and other data
- Powered by Mongo
- Master-Slave Replication
- High Availability (3 Instances of data)
- Geo-Sharding
- TBD

History DB



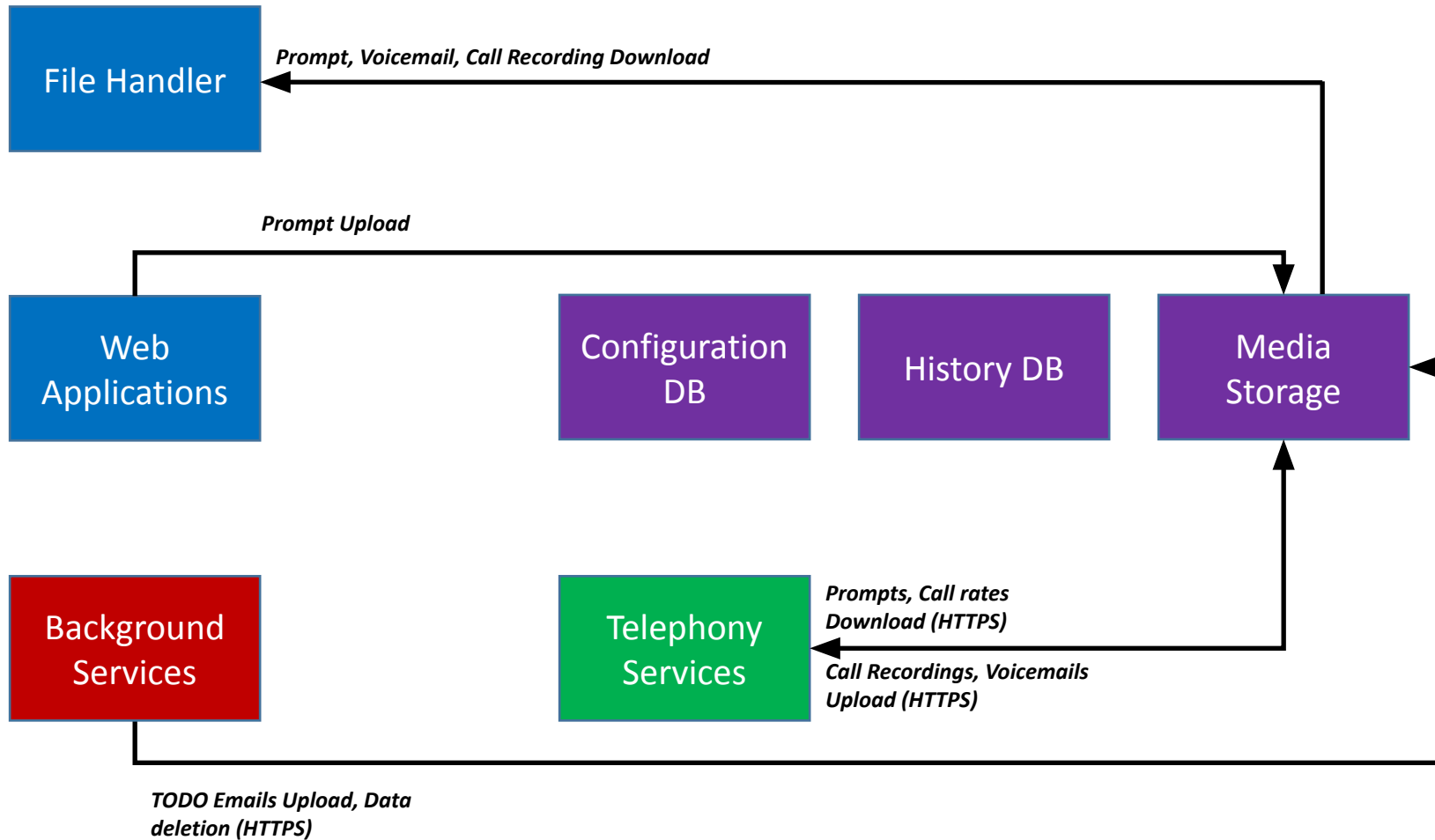
History Storage Interaction



Media Storage Features

- Used for storing Prompts, Call Records, Voicemails
- Used for storing some binary data (Call Rates, Reports, TODO Emails, etc)
- Powered by Azure Blob
- High Availability (3 Instances of data)
- Proxied by FileHandler for external world

Media Storage Interaction



Installer Features

- Standalone application
- Used for Initial setup of Telephony Services
- Used for Initial setup of Web Applications
- Used for Initial provisioning of Configuration DB
- Used for Initial setup of Media Prompts in Media Storage
- Used for Data Migration, periodical Update of Media, Email and other configuration entities.