

Fast Data: servire i canali in tempo reale via API.

Il caso di un player strategico
del mercato assicurativo italiano

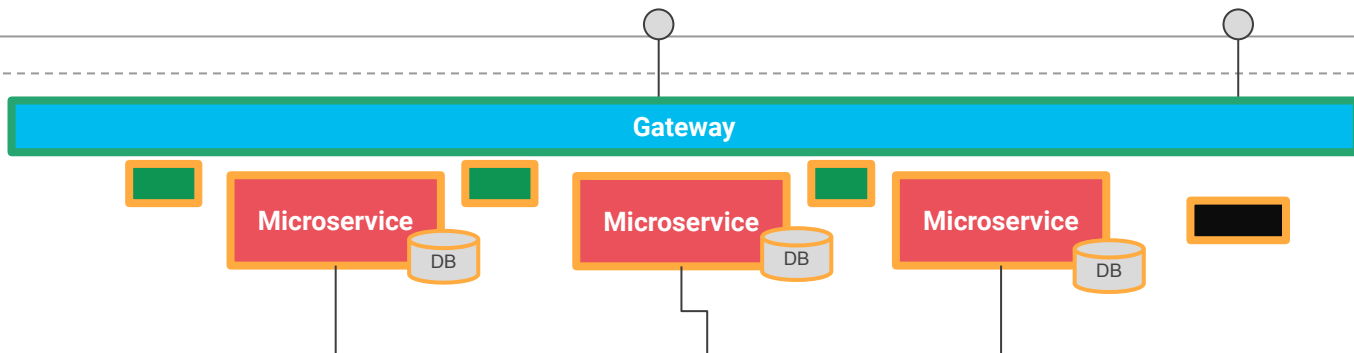
Il problema

E se avessimo bisogno di dati da sistemi legacy?



/api/*

/static/*



Come comunico con loro?

Legacy Systems

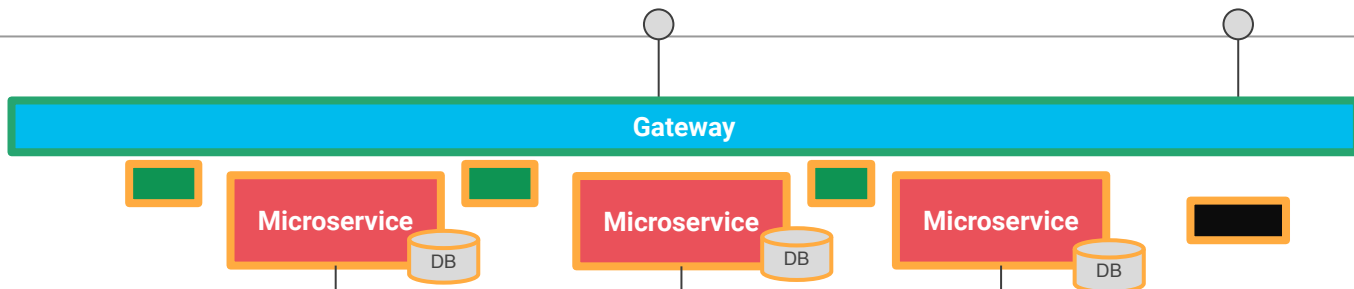


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Punto-punto? Appesantisco!

Legacy Systems

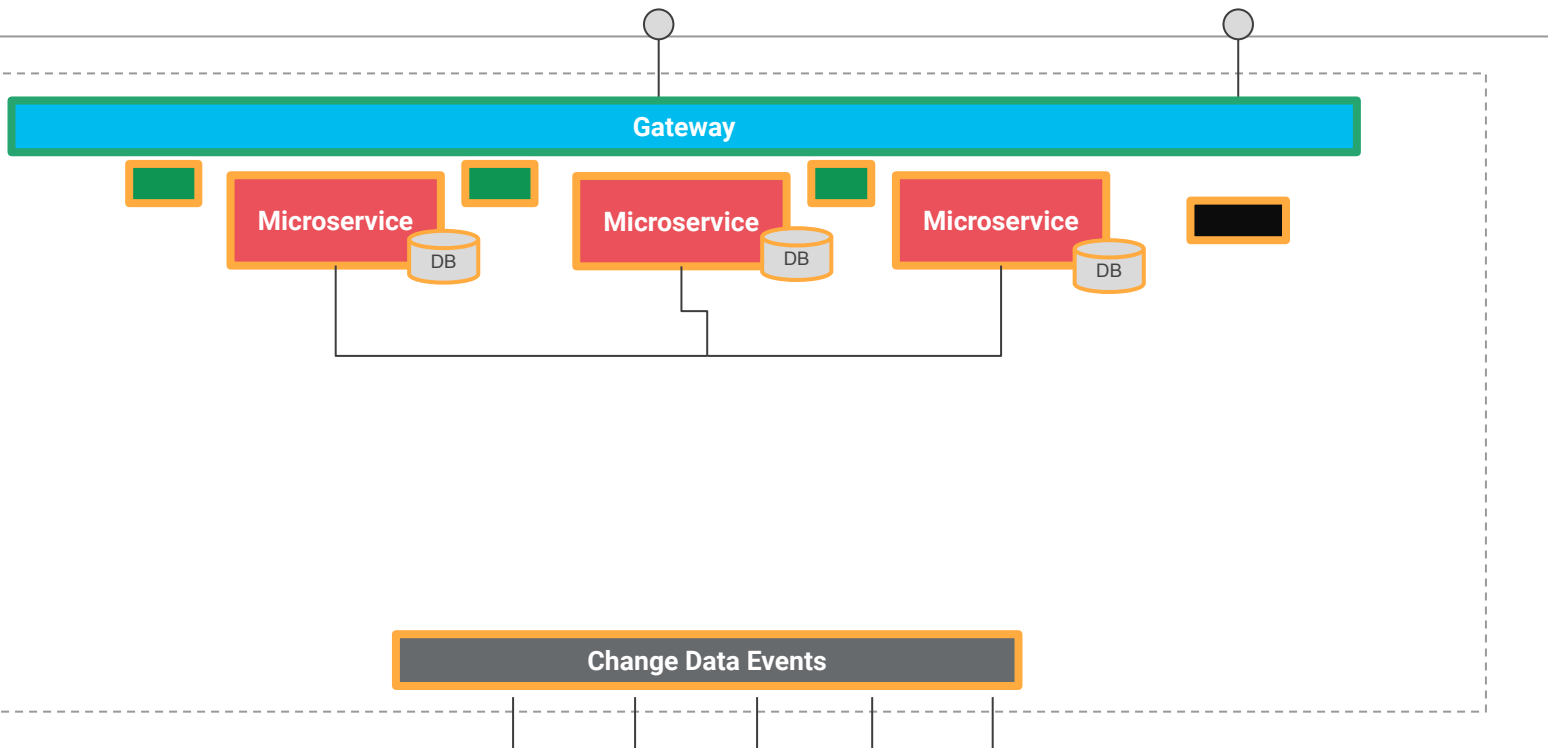


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Legacy Systems

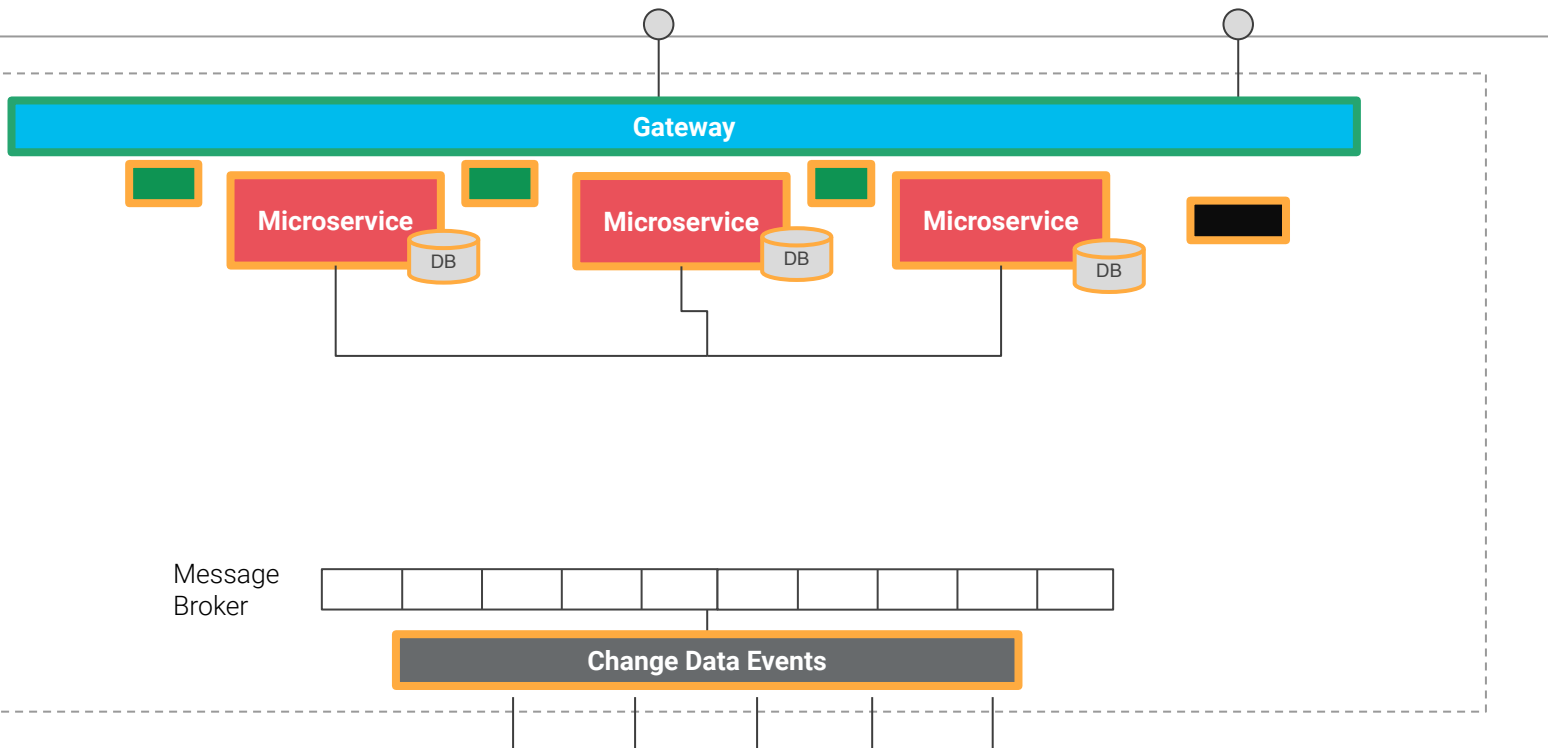


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Legacy Systems



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Gateway

Microservice

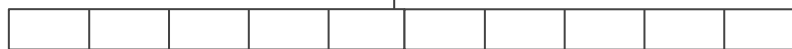
Microservice

Microservice



Data Stream Aggregator

Message
Broker



Change Data Events

Legacy Systems

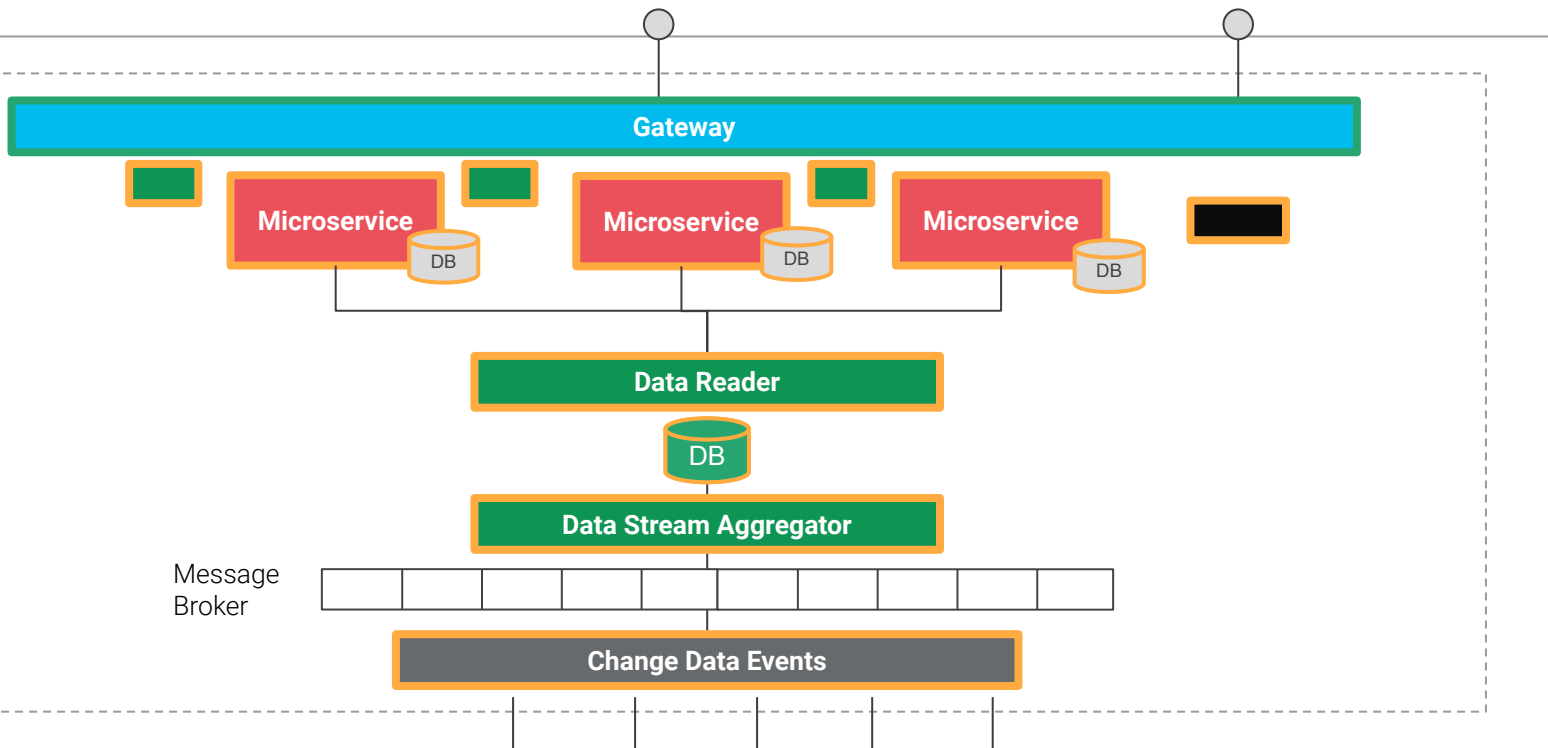


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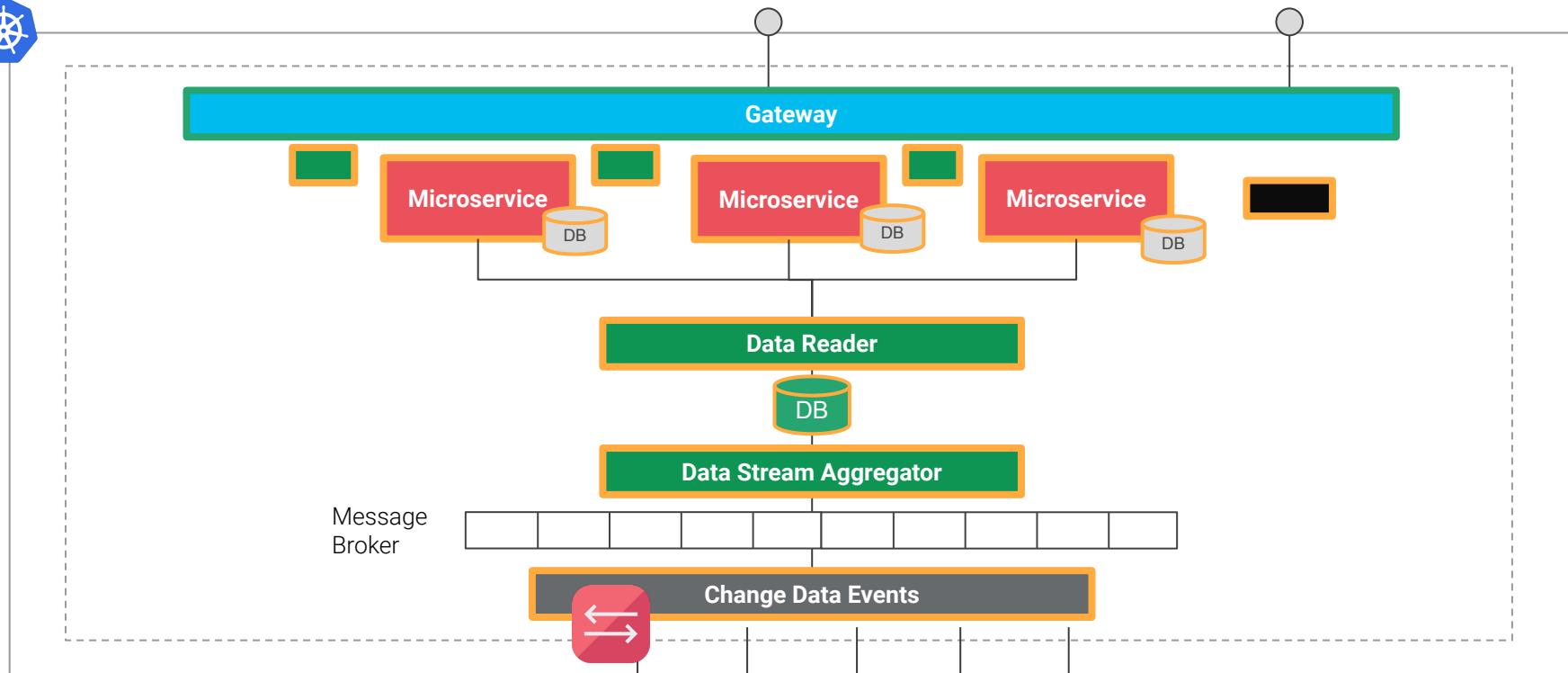


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Gateway

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Data Reader



Data Stream Aggregator



Message
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Change Data Events

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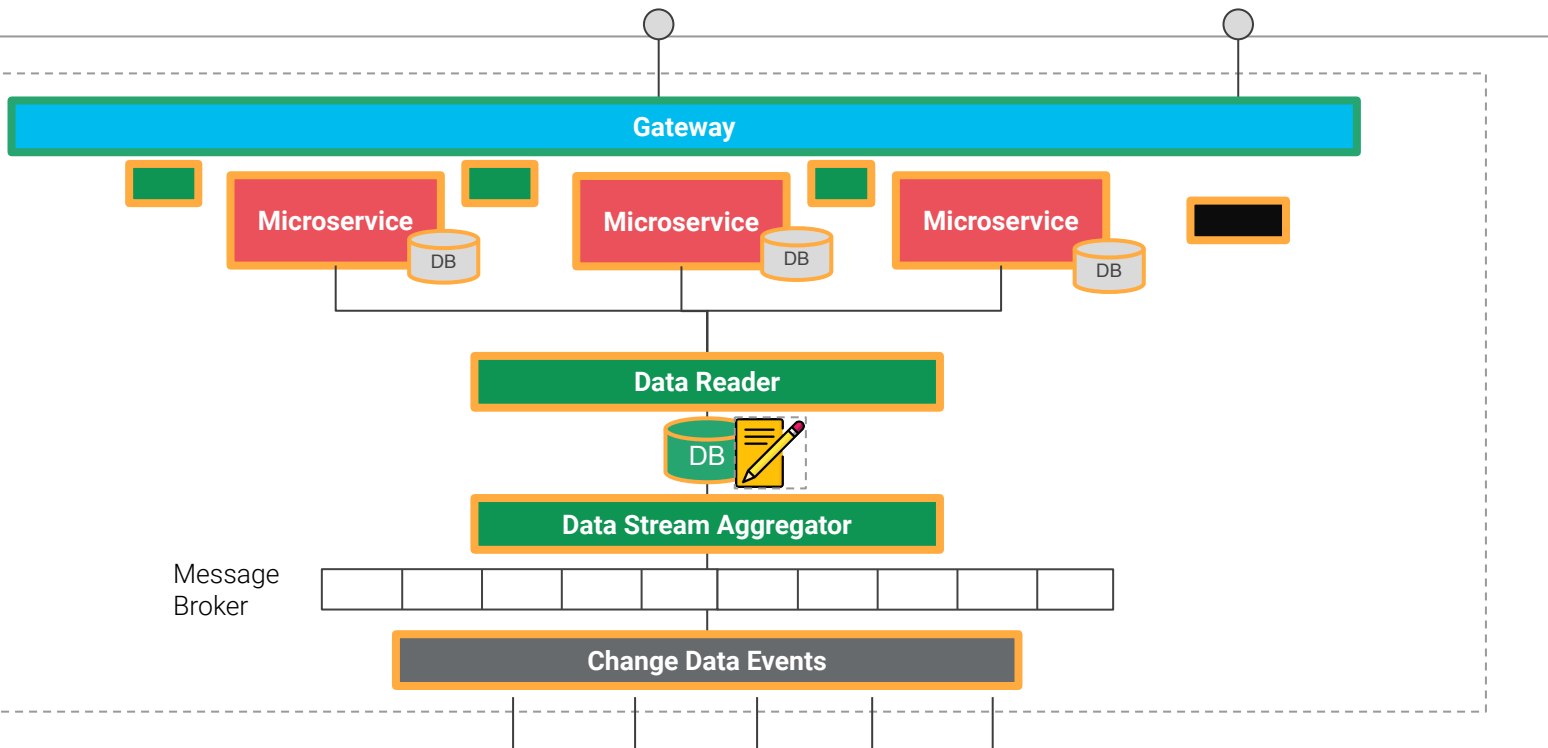


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Legacy Systems

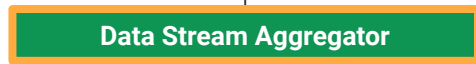
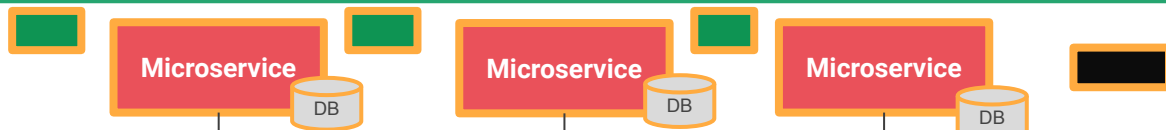


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Message
Broker



Legacy Systems

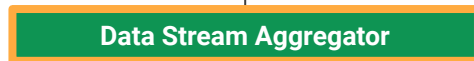
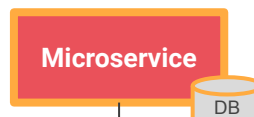
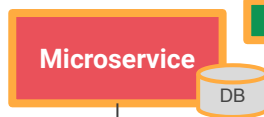


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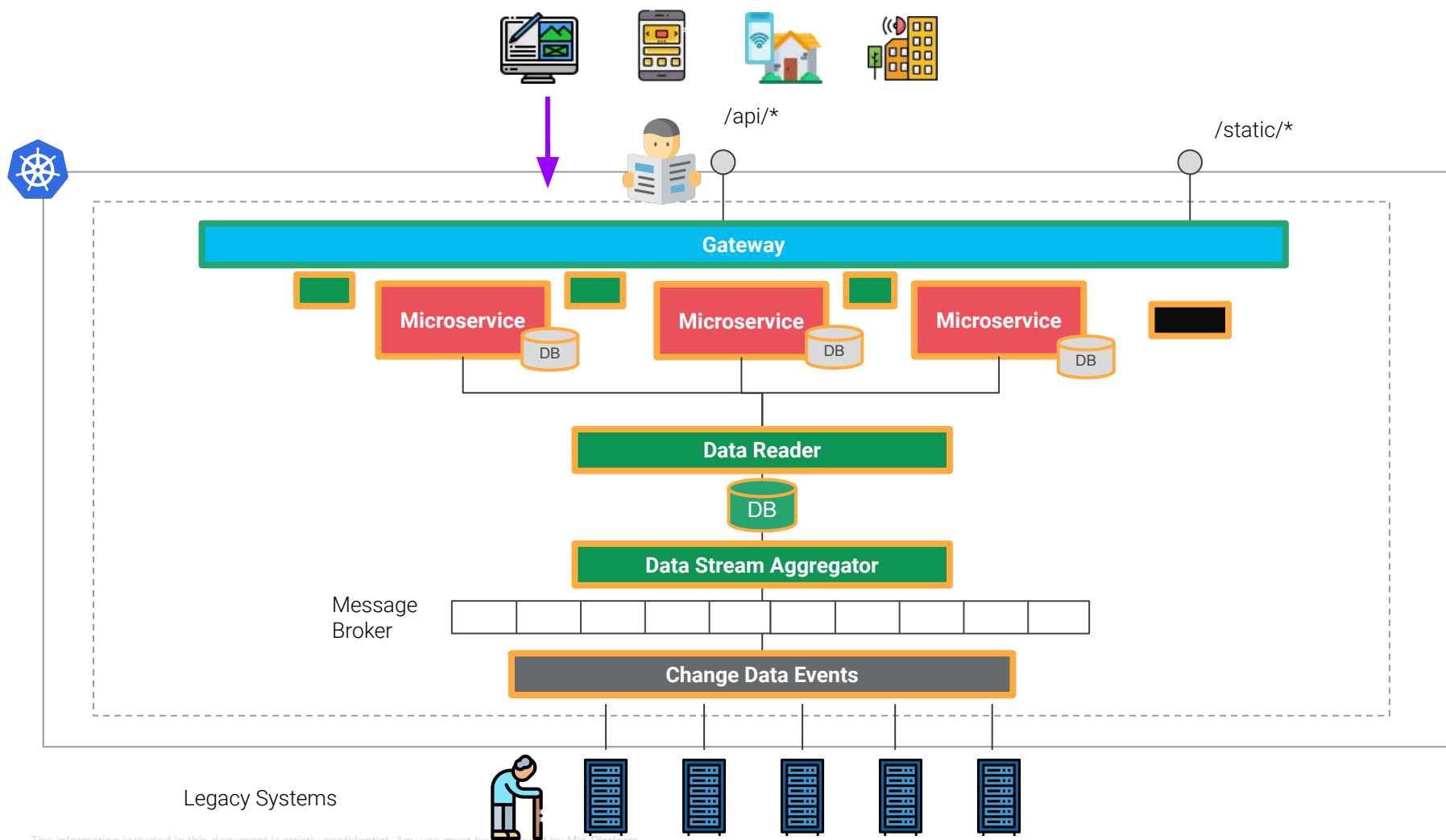
Message
Broker

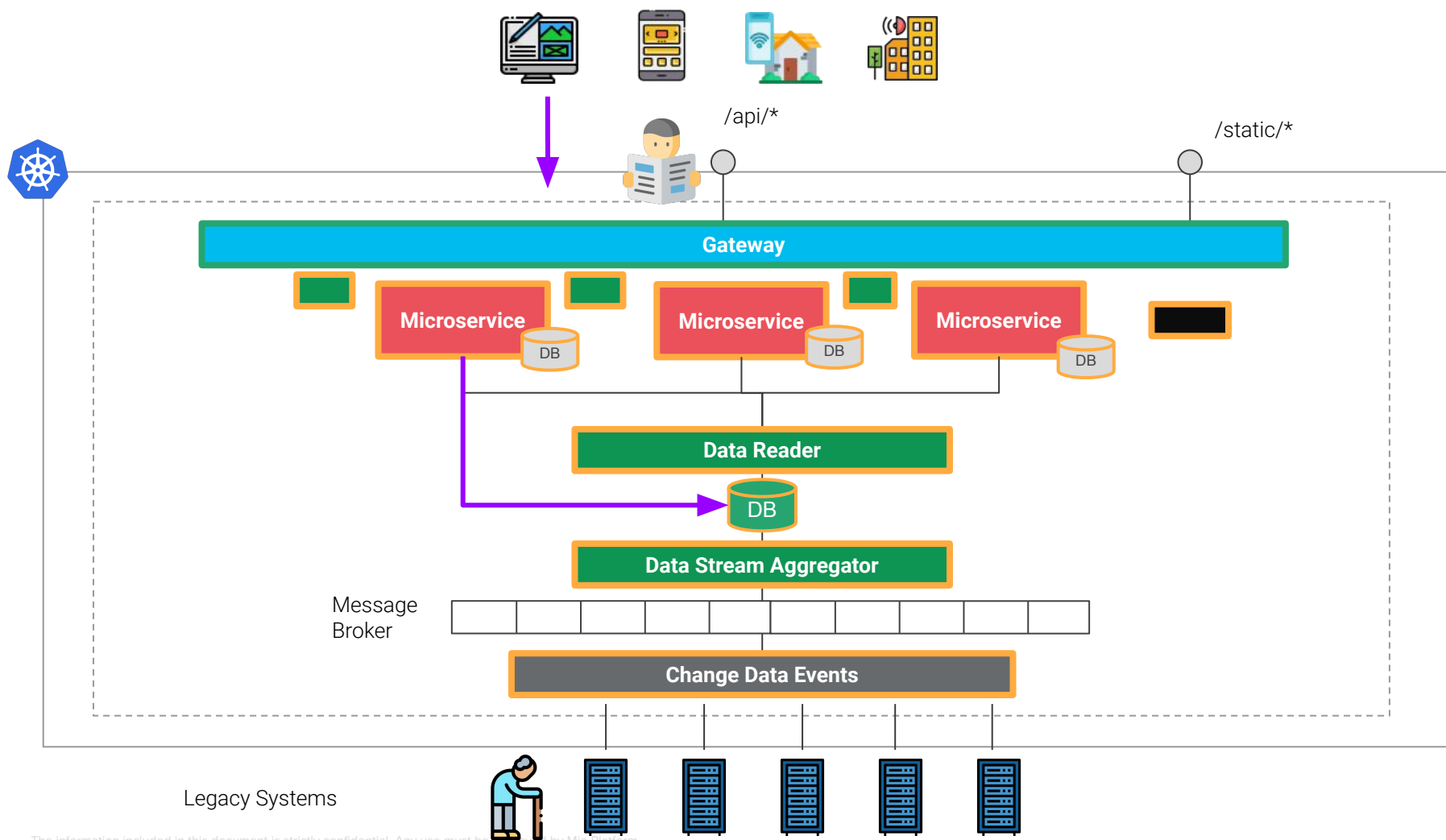


Legacy Systems



E la scrittura?







/api/*

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Gateway

Microservice

Microservice

Microservice



I sistemi legacy rimarrebbero
disallineati e la logica
transazionale è prima da tirar
fuori tutta

Data Reader



Data Stream Aggregator

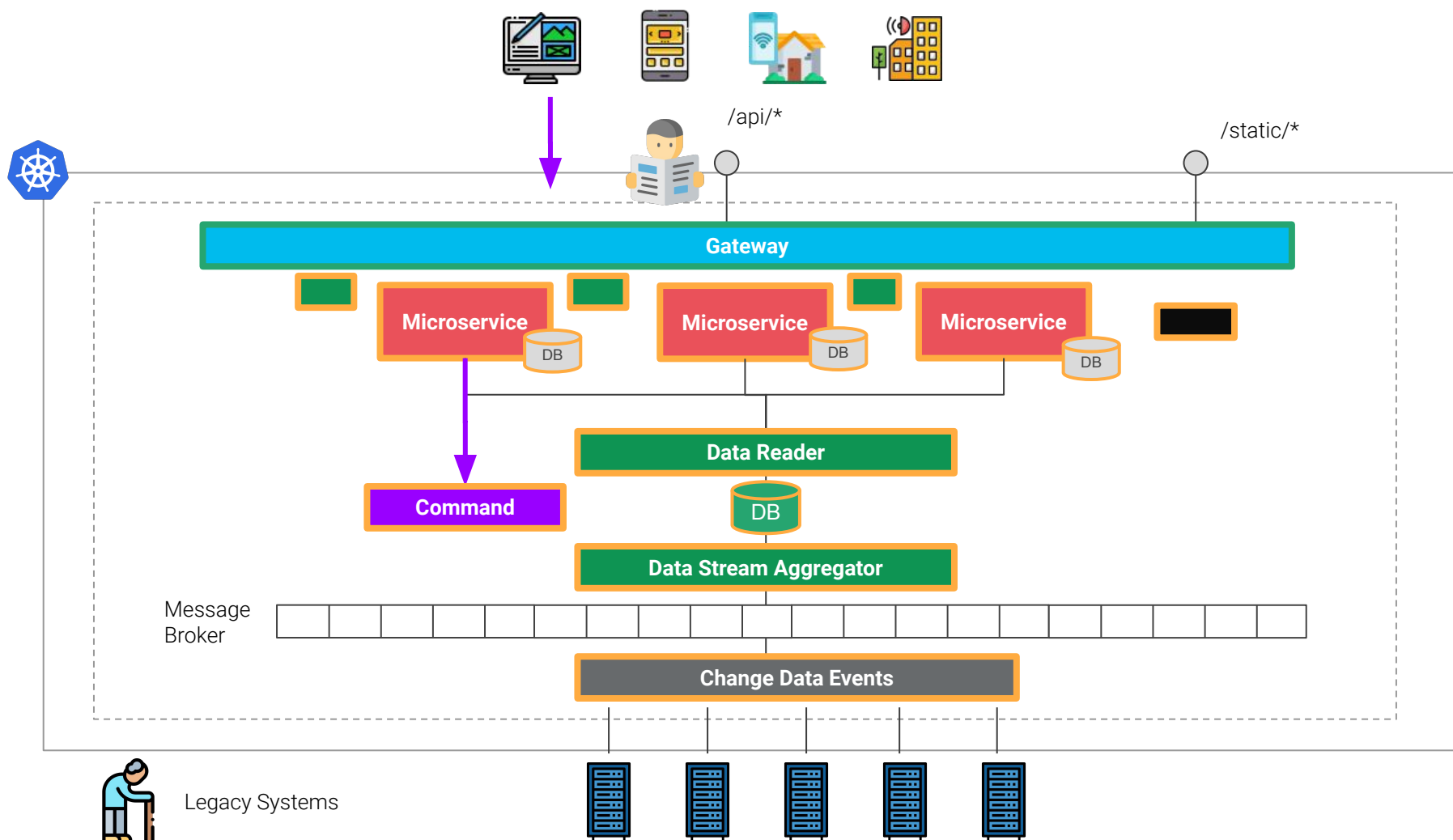
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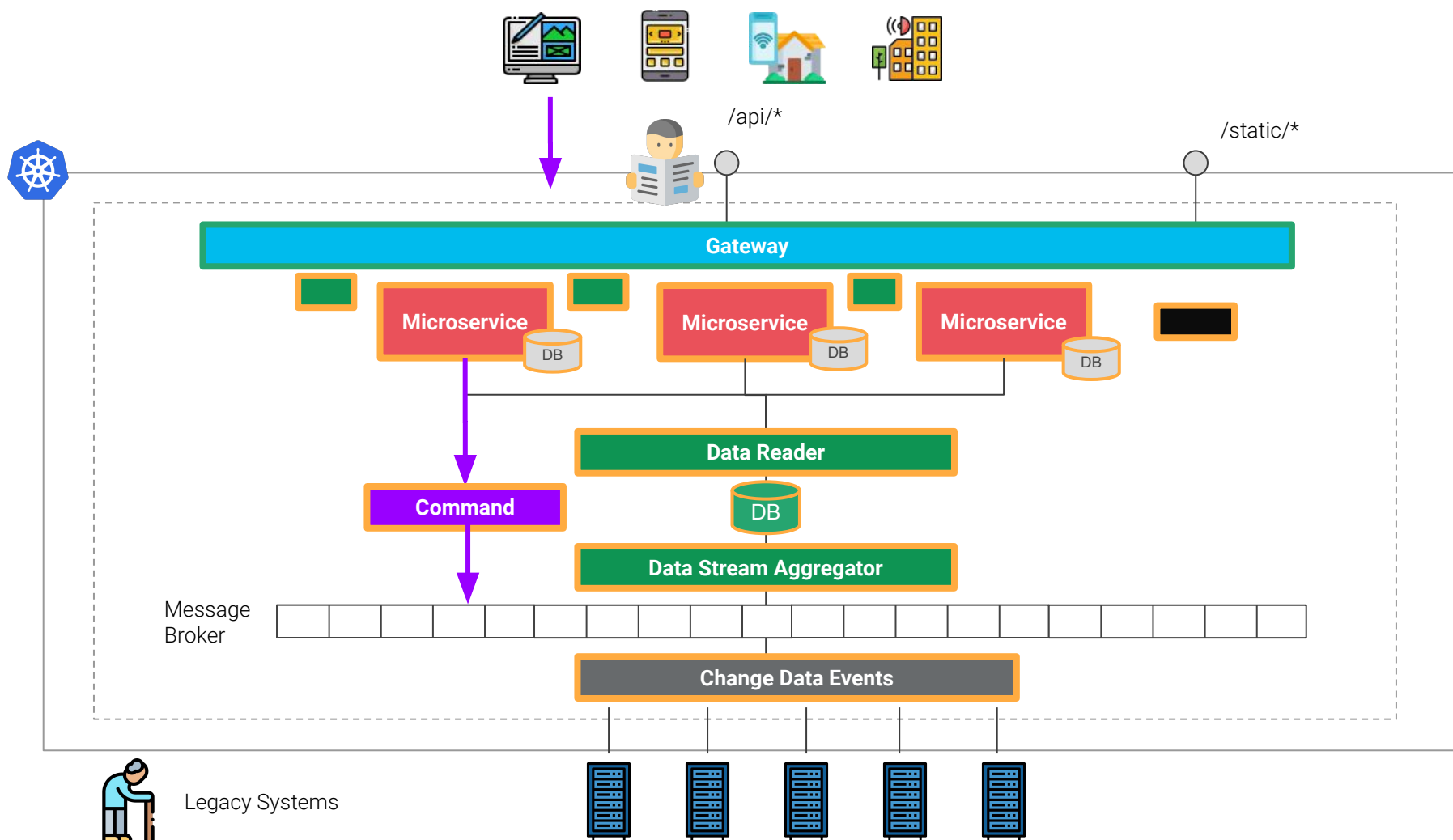


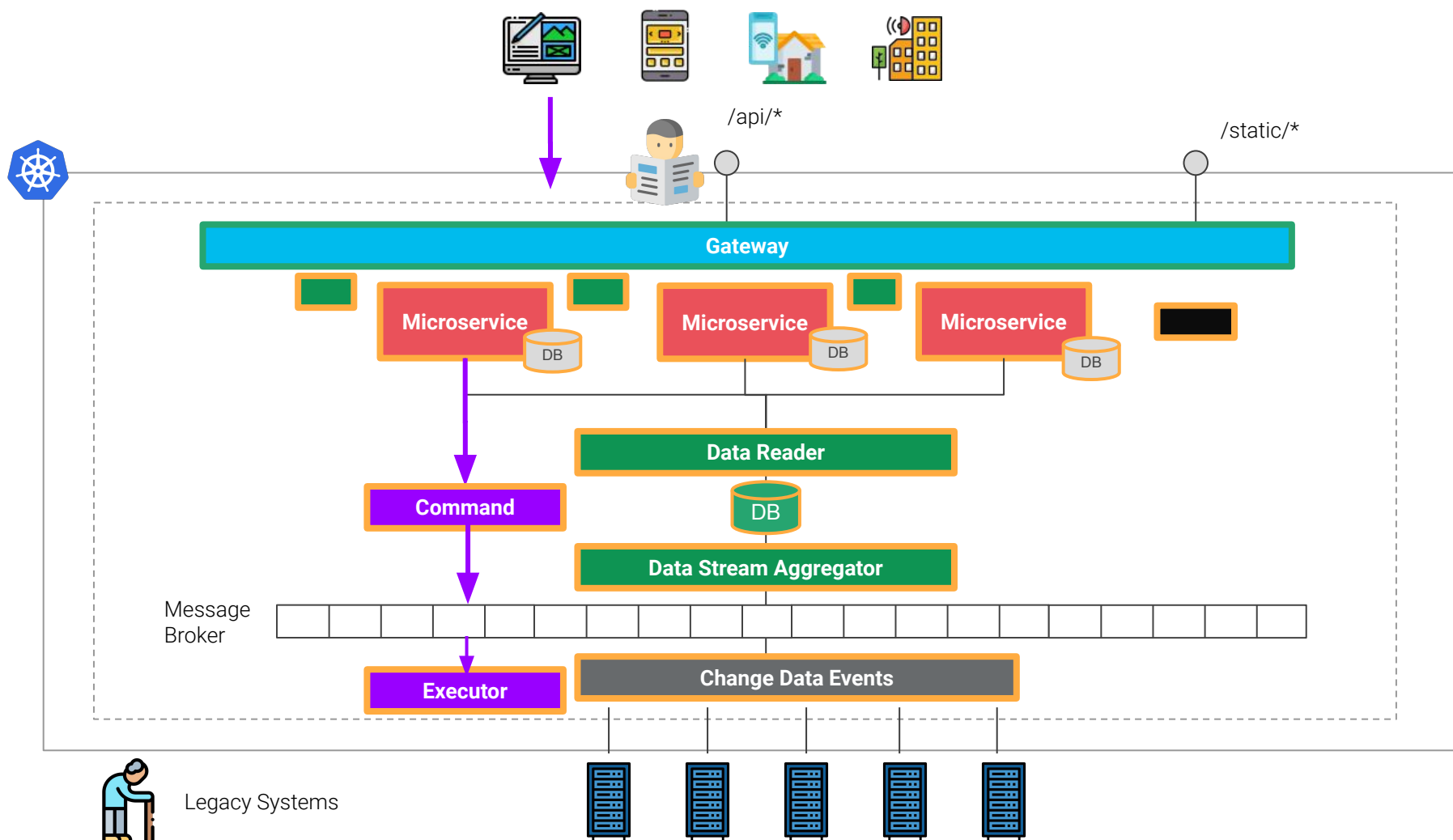
Change Data Events

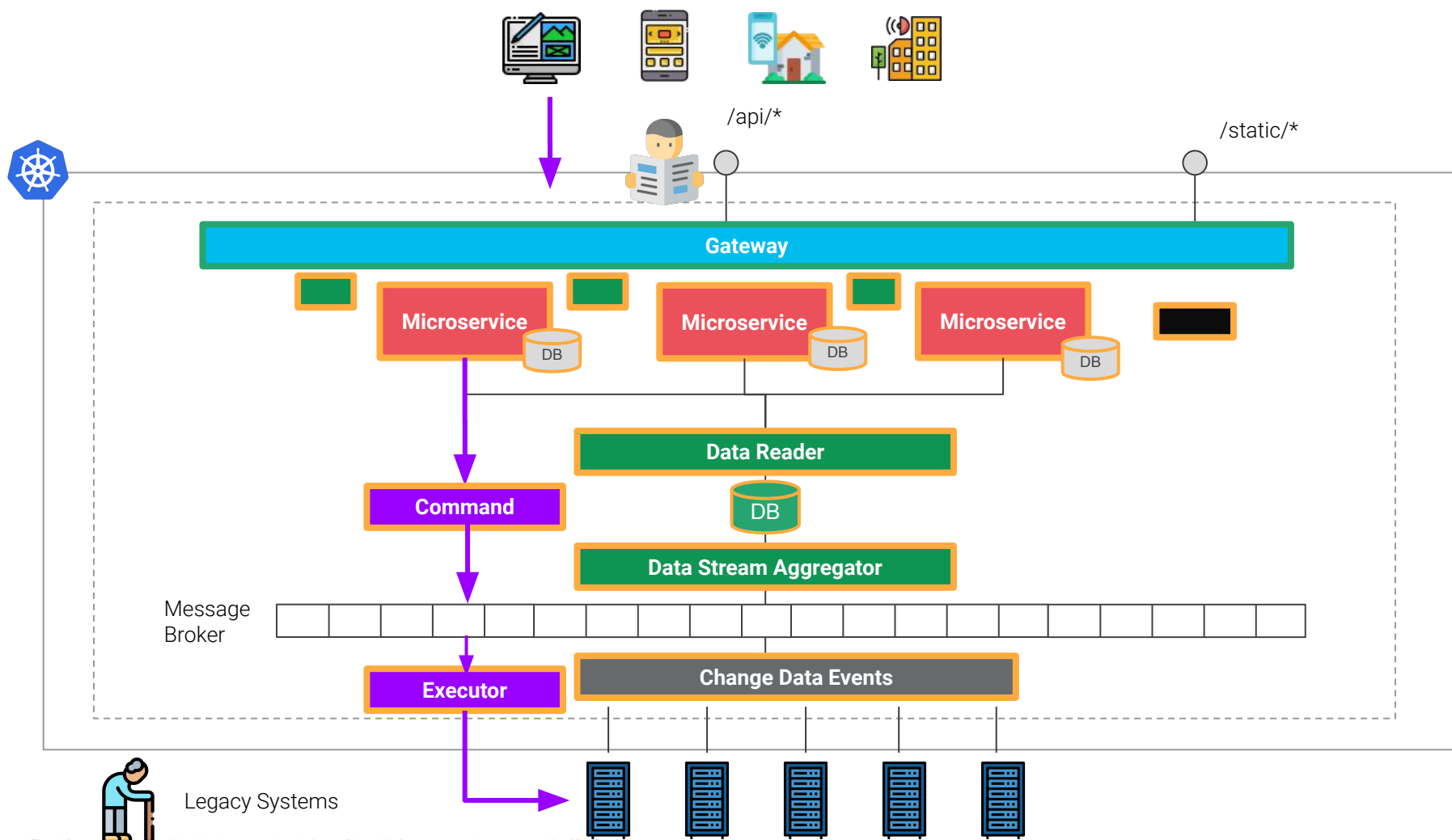
Legacy Systems

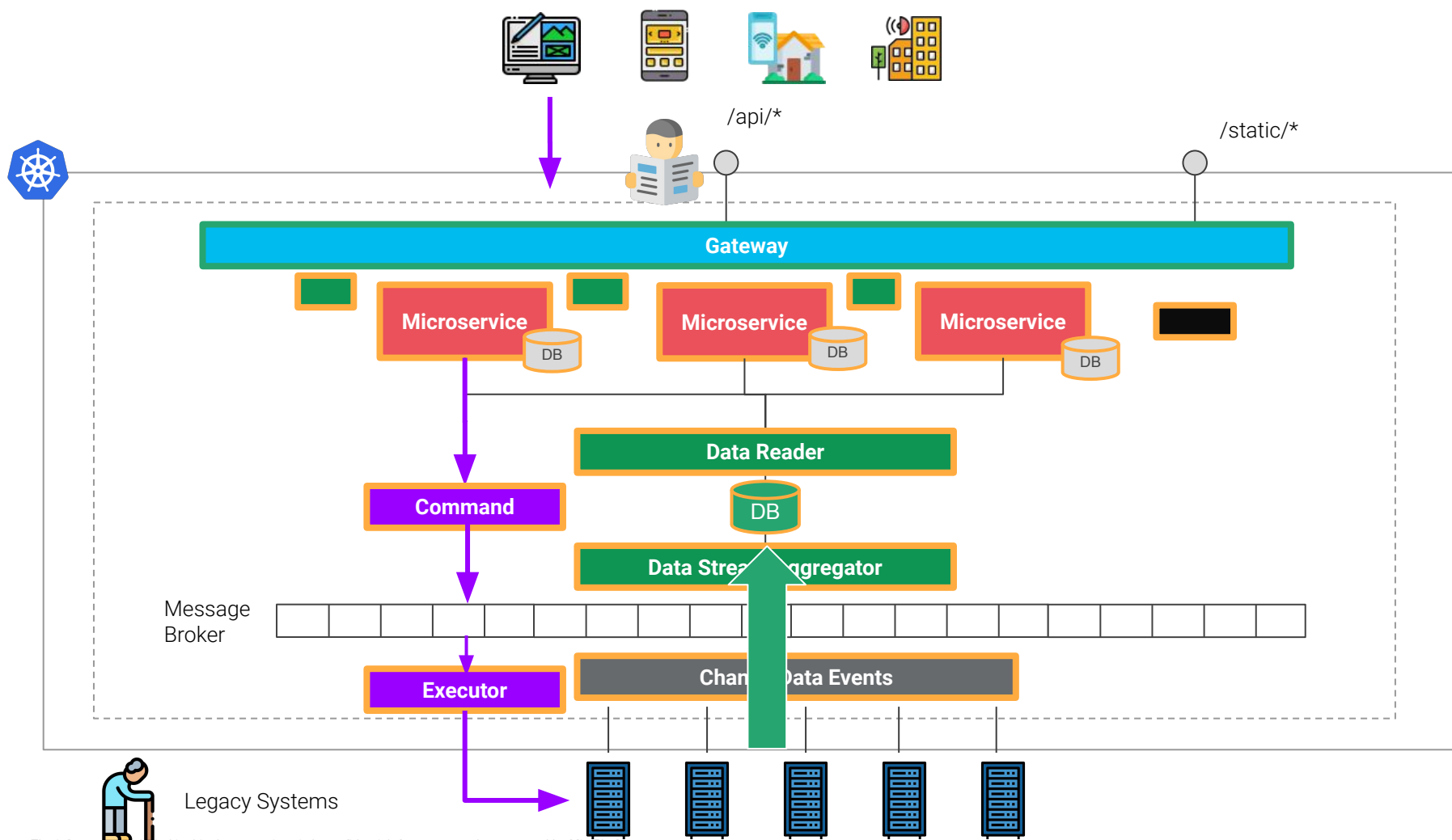












Digital Integration Hub

Gartner's target architecture: the Digital Integration Hub

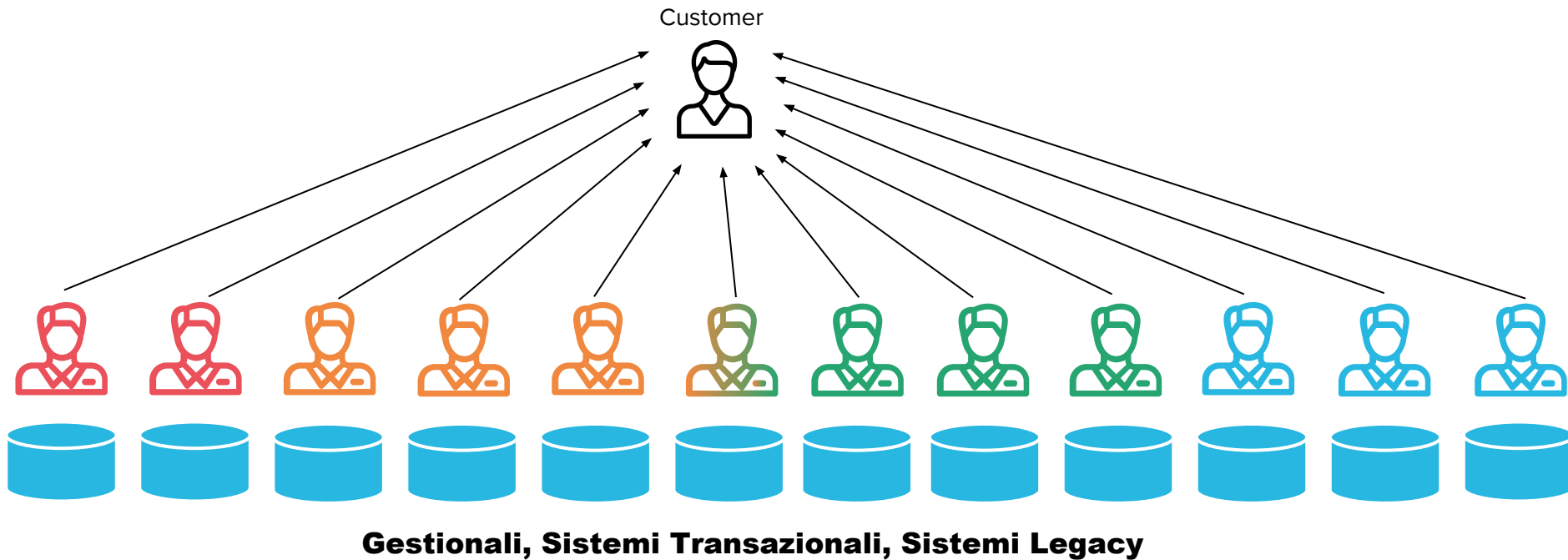
*“DIH-enabled API platforms will emerge as **key architectural foundations**, and deployments will become more comprehensive.”*

API Services Access a Near-Real-Time Replica of Systems of Record Data



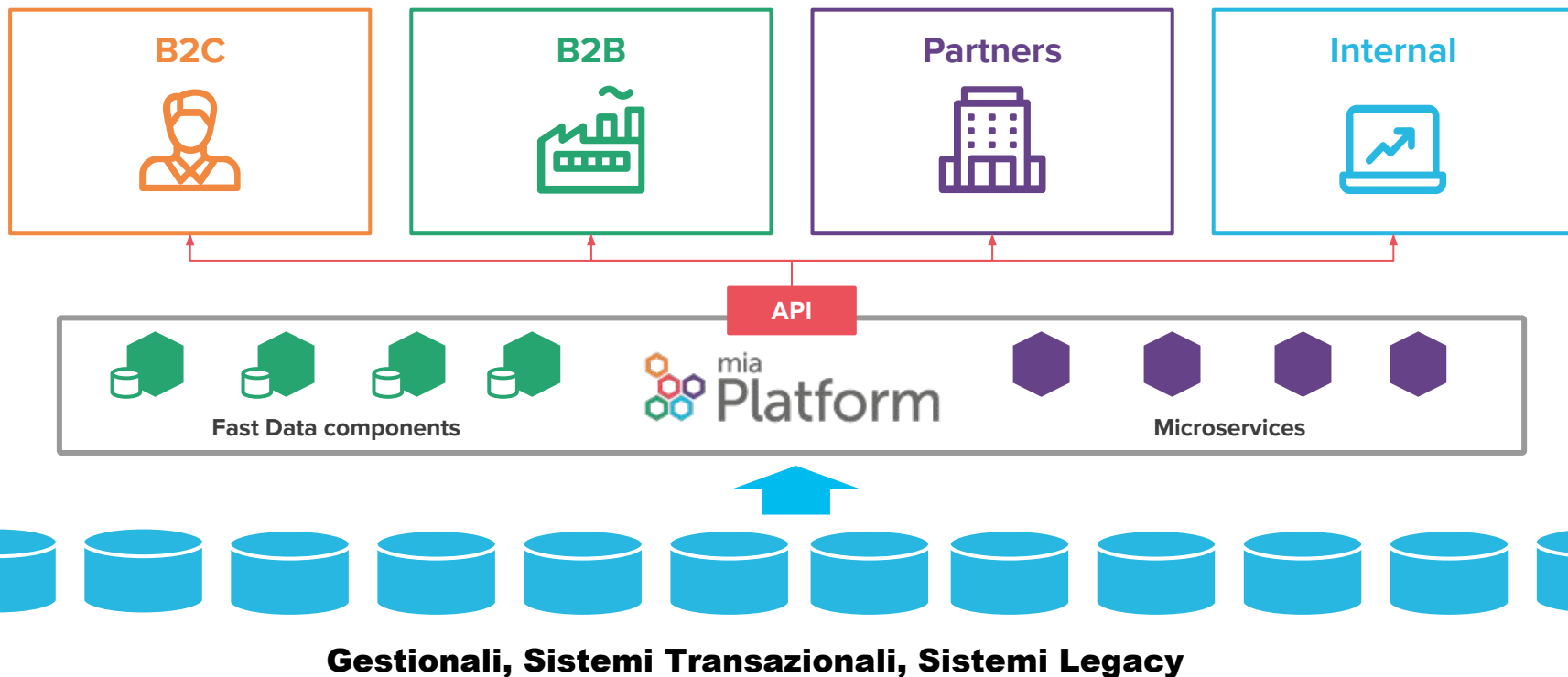
Use Case

Starting Point

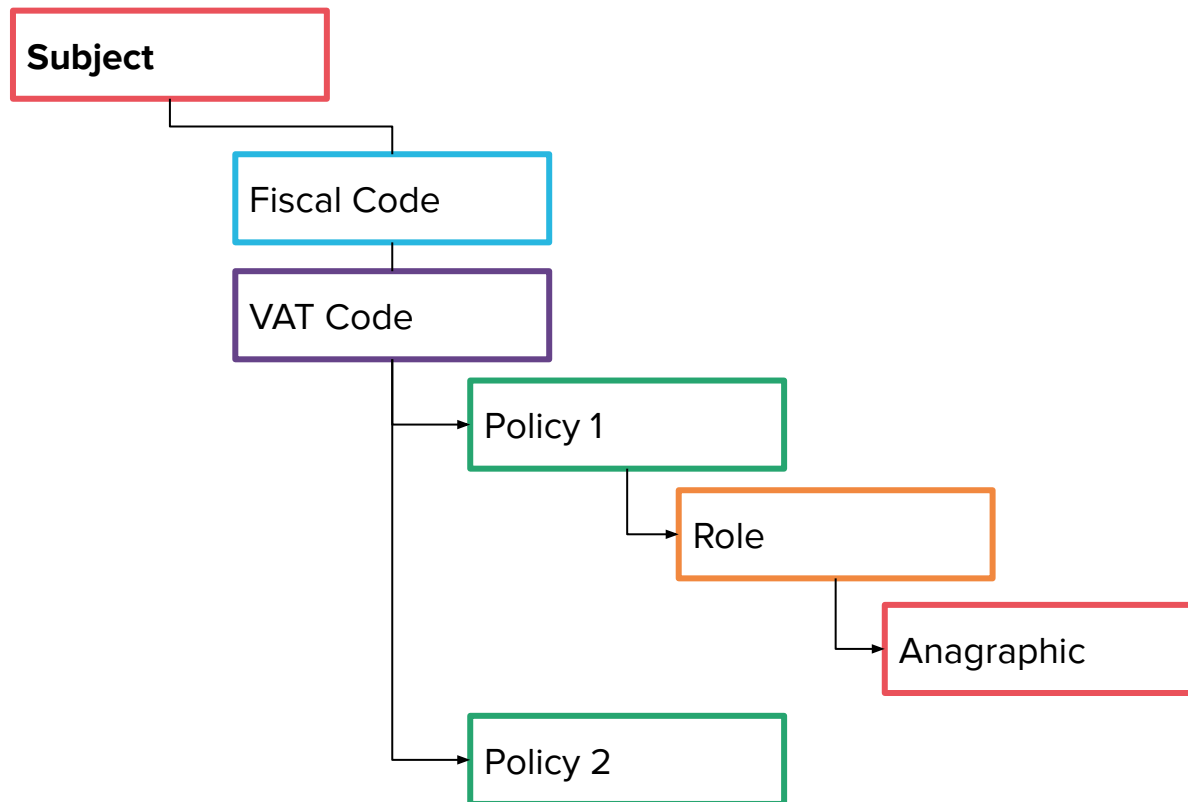


The Vision, an Omnichannel platform

The same data, aggregated according to different business needs, can serve different channels



Structure of a Single Customer View



The structure is Customer Centric

Starting from VAT code / Fiscal code you can obtain all the customer's policies with the relative anagraphics

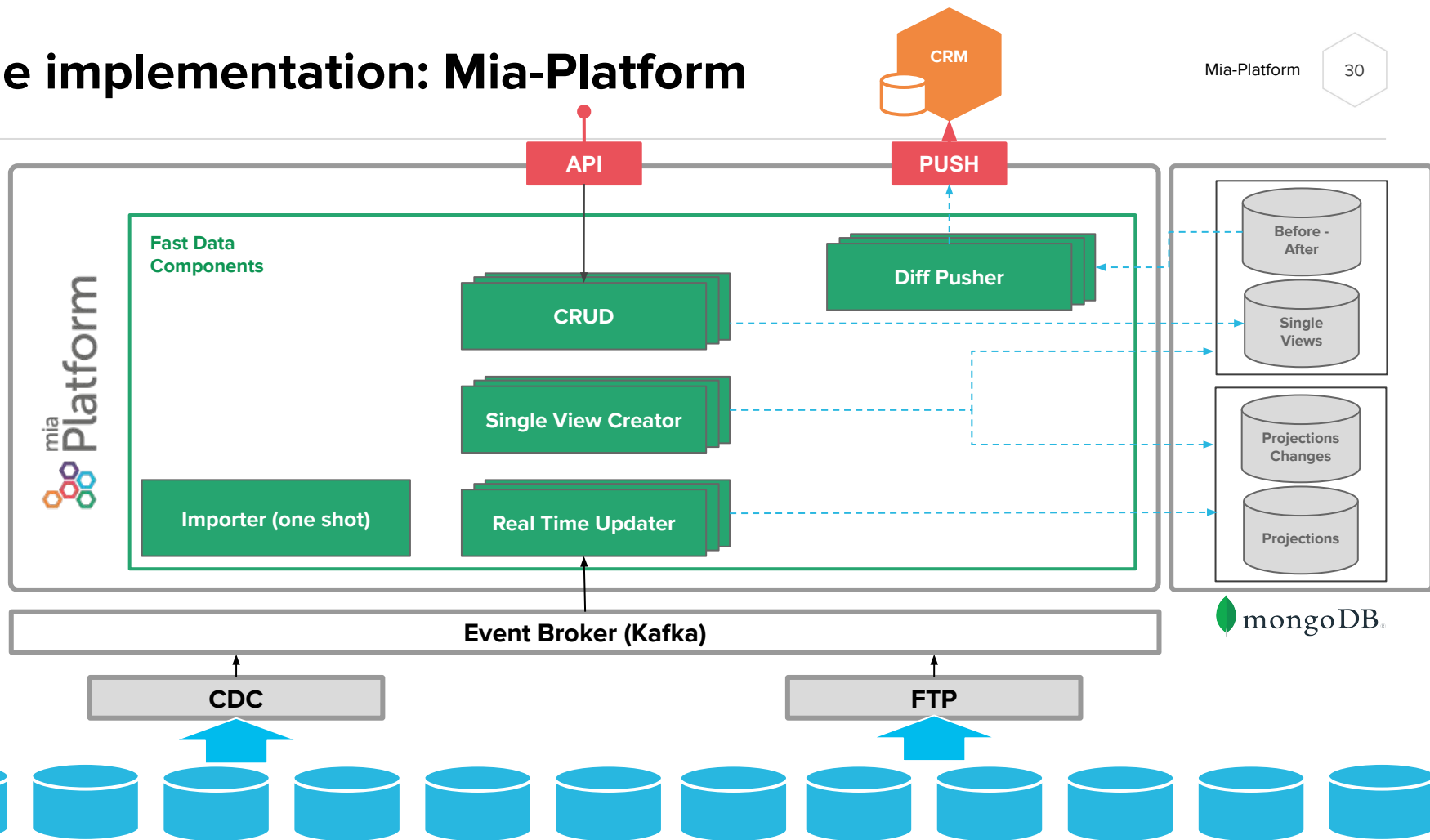
Example of a Single View

```
_id: ObjectId("5d7beea09f571102ae508629")
> dataVersion: Object
  > subject: Object
    fiscalCode: "██████████"
    vatCode: null
    idSubject: "HFIP750593998"
    isLegalEntity: false
  > ana: Object
  > contacts: Array
  > insurances: Array
    > 0: Object
      id: "0448_379284_null"
      portfolioOrigin: "EXAMPLE"
      number: "379284"
      masterNumber: null
      currentExpirationDate: 2021-05-03T00:00:00.000+00:00
      originalExpirationDate: 2021-05-03T00:00:00.000+00:00
      proposalNumber: "379284"
      currentEffectDate: 2015-09-29T00:00:00.000+00:00
    > roles: Array
    > company: Object
  > 1: Object
    id: "0448_385968_null"
    portfolioOrigin: "BI"
    number: "385968"
    technicalBranchCode: "I-I"
    currentExpirationDate: null
    originalExpirationDate: null
    proposalNumber: "385968"
    currentEffectDate: 2017-04-17T22:00:00.000+00:00
  > roles: Array
  > company: Object
  masterNumber: null
updatedAt: 2020-06-11T02:55:44.048+00:00
__STATE__: "PUBLIC"
```

The implementation: Mia-Platform

Mia-Platform

30





Systems of Record
managed



Clients aggregate to
the Single Views



From the legacy
application to the
channel



Client's
investigation time



Giulio Roggero

★ Information & Communications Technology

Scrum & Agile | Agile Transformation | Software Craftsmanship
Modern Software Development | Open Source Software | Software Architecture | microservices
API Design | FastData | Data Lake | Streaming | GKE | TDD & BDD | DDD
Agile Coaching | Cloud Native | Kubernetes | Mia-Platform

📍 Milan, Lombardy, Italy

Giulio Roggero

Founder & CTO Mia-Platform

Il mio focus principale è semplificare la vita a sviluppatori e IT operations con Mia-Platform, uno dei primi Digital Integration Hub out-of-the-box al mondo. Ad oggi aiuto più di 70 persone dei team di Mia (software engineers, product owners, IT operations, UX designers) a creare un prodotto che semplifica lo sviluppo su Kubernetes.

🐦 [@giulioroggero](#) in [linkedin.com/in/giulioroggero/](#) 🌐 [instagram.com/giuliorog...](#) (Instagram) ✍️ [blog.mia-platform.eu/it](#) (blog)

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<https://sessionize.com/giulio-roggero/>

Grazie

Giulio Roggero

MIA-PLATFORM CTO