DataStax: The Modern, Cloud-Native Data Platform
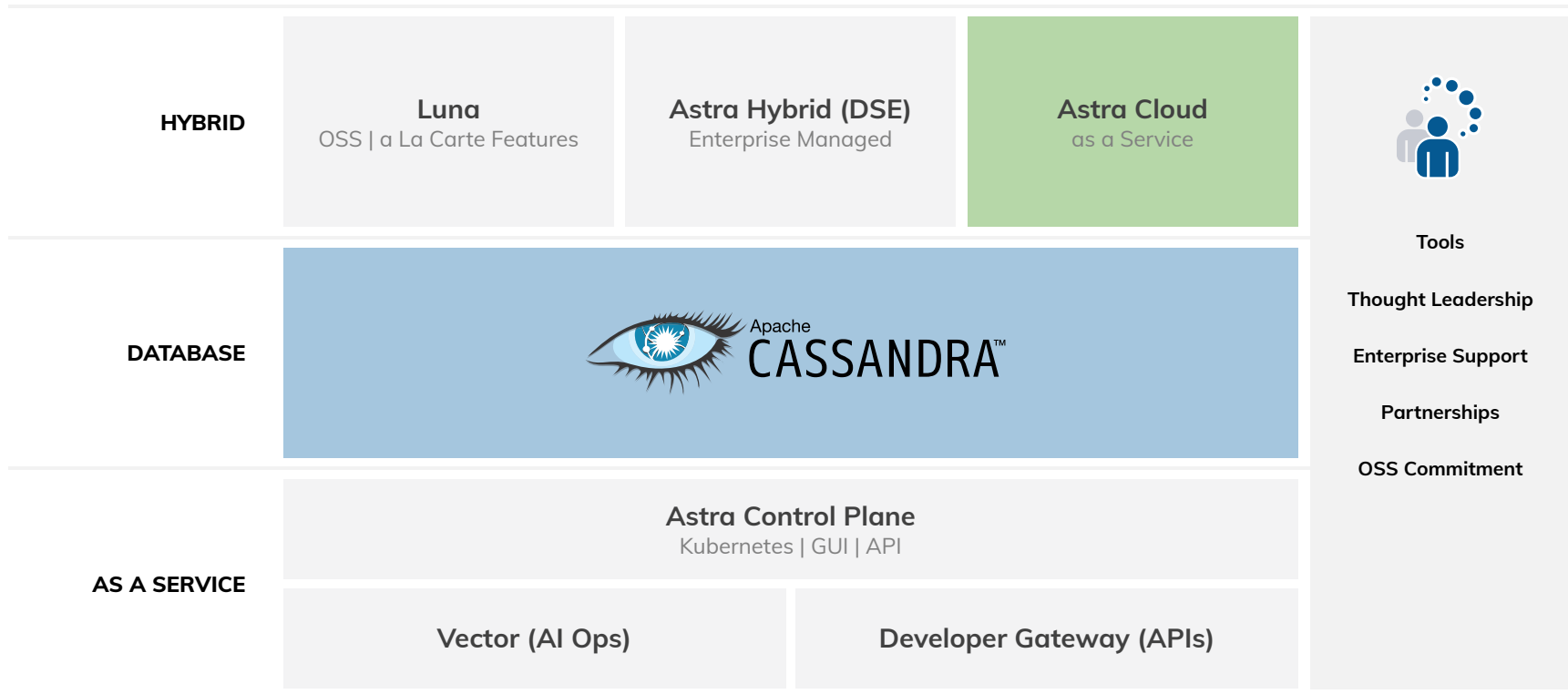
Approaching Transformational Data Architecture

December 2020

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DataStax Strategy: Hybrid Database as a Service

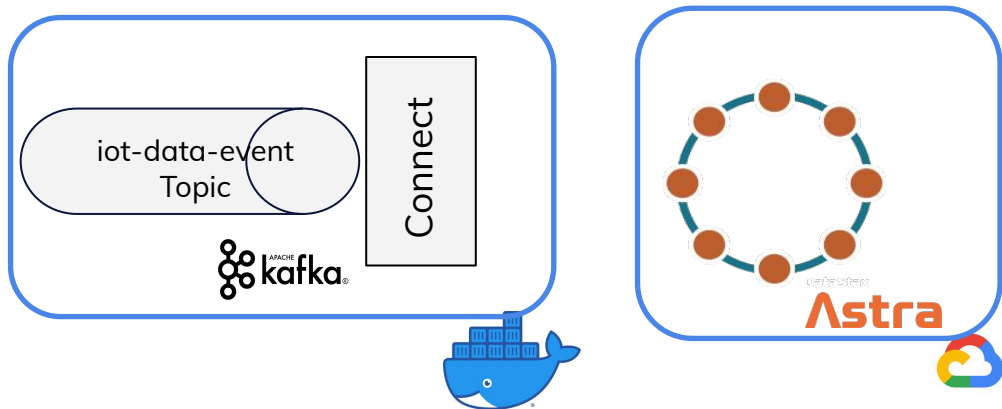|				
HYBRID	**Luna** OSS | a La Carte Features	**Astra Hybrid (DSE)** Enterprise Managed	**Astra Cloud** as a Service	Tools Thought Leadership Enterprise Support Partnerships OSS Commitment
DATABASE	Apache CASSANDRA™			
AS A SERVICE	**Astra Control Plane** Kubernetes | GUI | API			
	Vector (AI Ops)		**Developer Gateway (APIs)**	

DATASTAX

Demo Architecture

Docker

docker-compose up -d

Demo Architecture
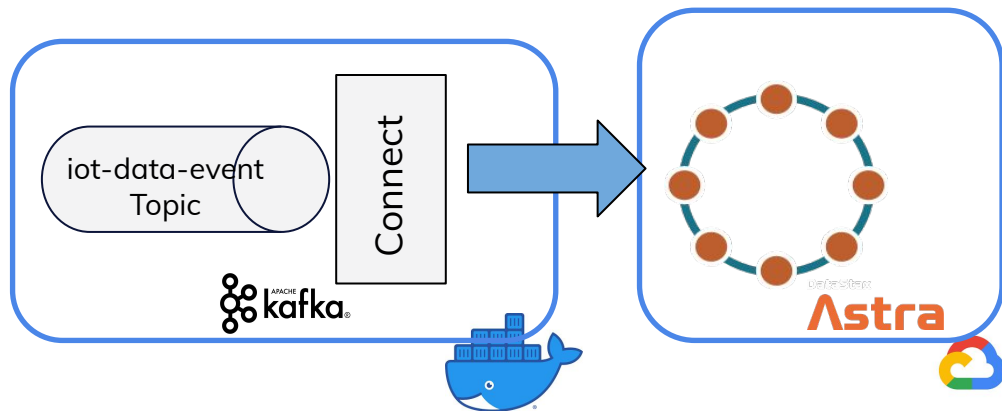
iot-data-event Topic

Connect

Astra

Adding Kafka Connector Configuration

```
curl -X POST -H "Content-Type: application/json" -d
@connector-config-astra.json "http://localhost:8083/connectors"
```

Kafka Connector Configuration

```
{
  "name": "demo-iot-astra",
  "config": {
    "connector.class": "com.datastax.kafkaconnector.DseSinkConnector",
"cloud.secureConnectBundle": "/home/secure-connect-demo.zip",
    "auth.username": "datastax",
    "auth.password": "datastax",
    "tasks.max": "10",
    "topics": "iot-data-event",
    "topic.iot-data-event.demo.iot_data_event_raw.mapping":
"vehicleid=value.vehicleId,vehicletype=value.vehicleType,routeid=value.routeId,longitude=value.longitude,latitude=
value.latitude,timestampcol=value.timestamp,speed=value.speed,fuellevel=value.fuelLevel",
    "topic.iot-data-event.demo.iot_data_event_raw.consistencyLevel": "LOCAL_QUORUM"
  }
}
```

DATASTAX

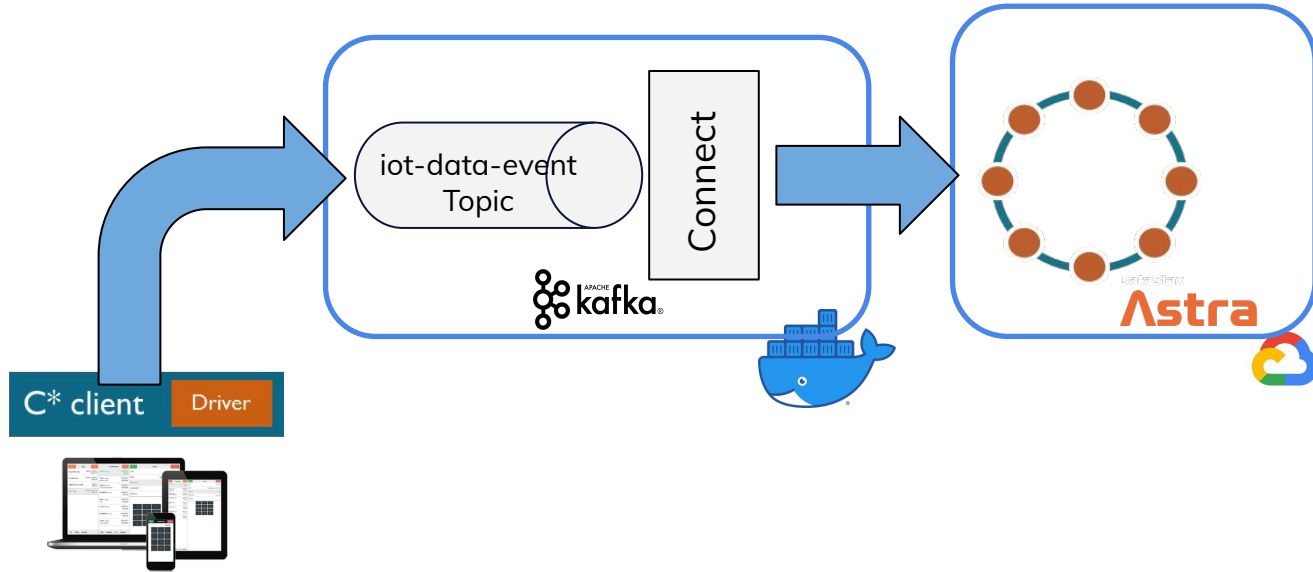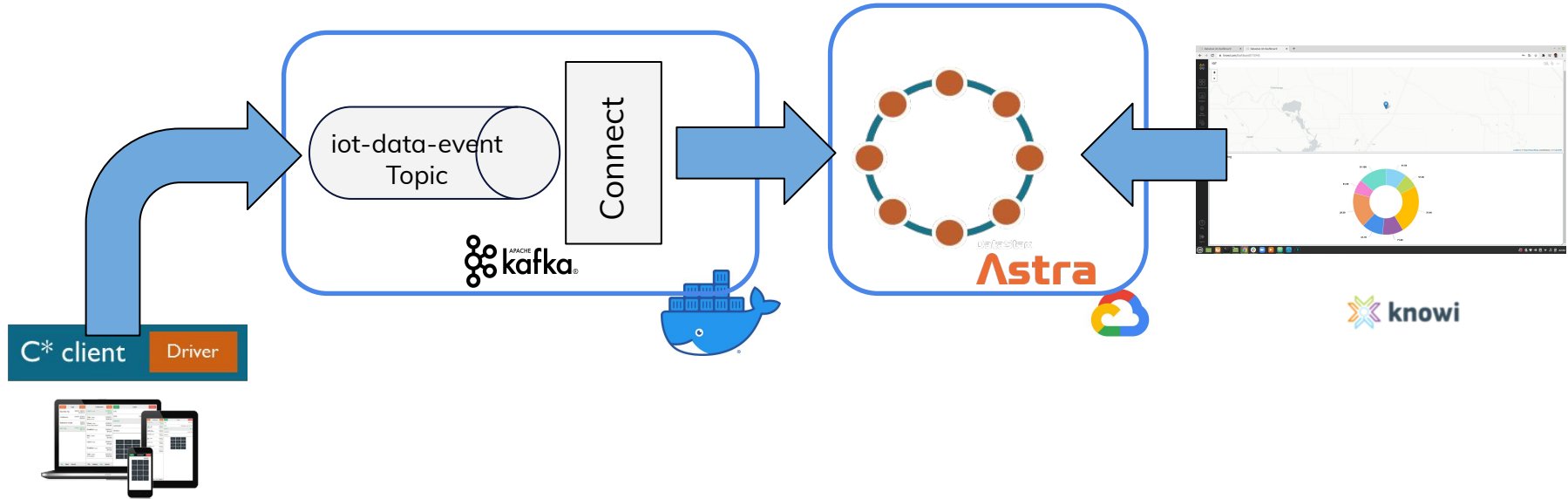# Demo Architecture

Launch Producer Java Application

java -jar iot-kafka-producer-1.0.0.jar
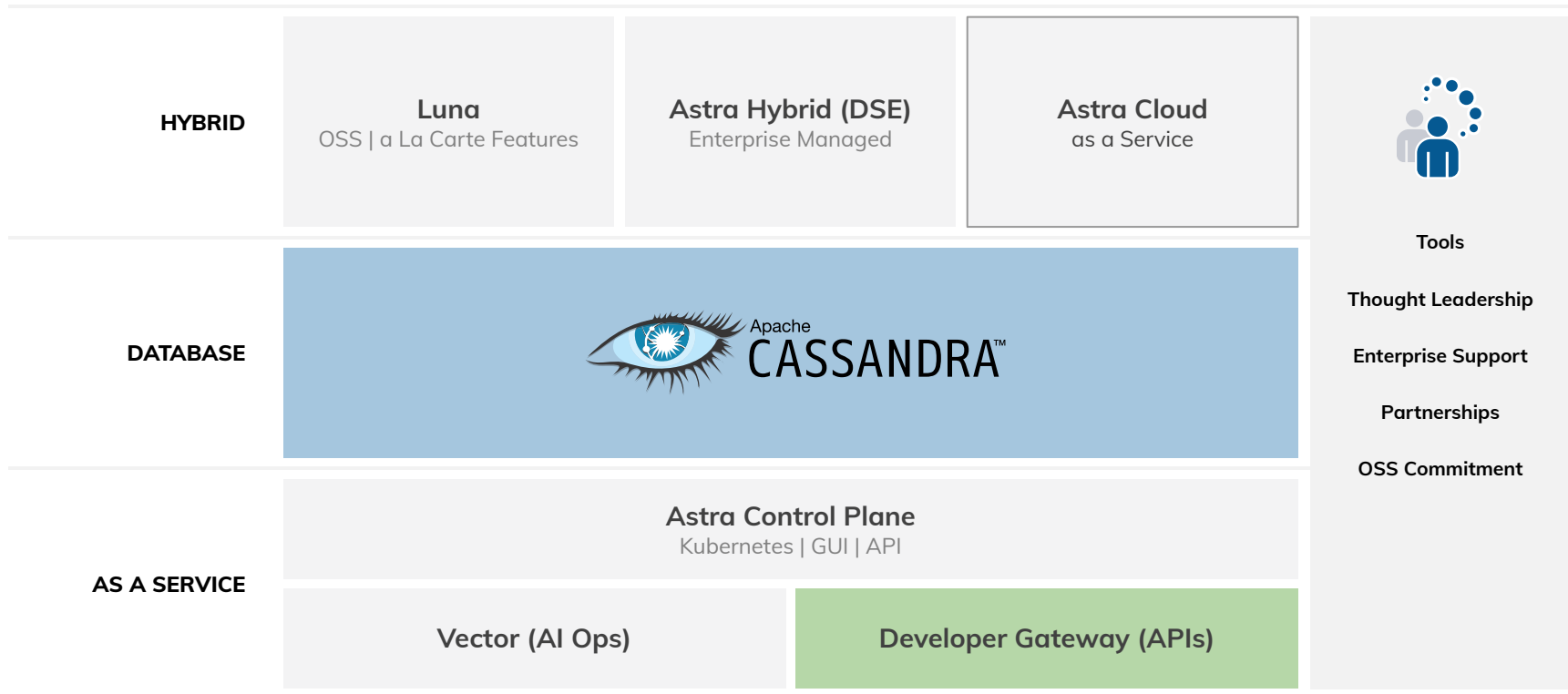
DATASTAX
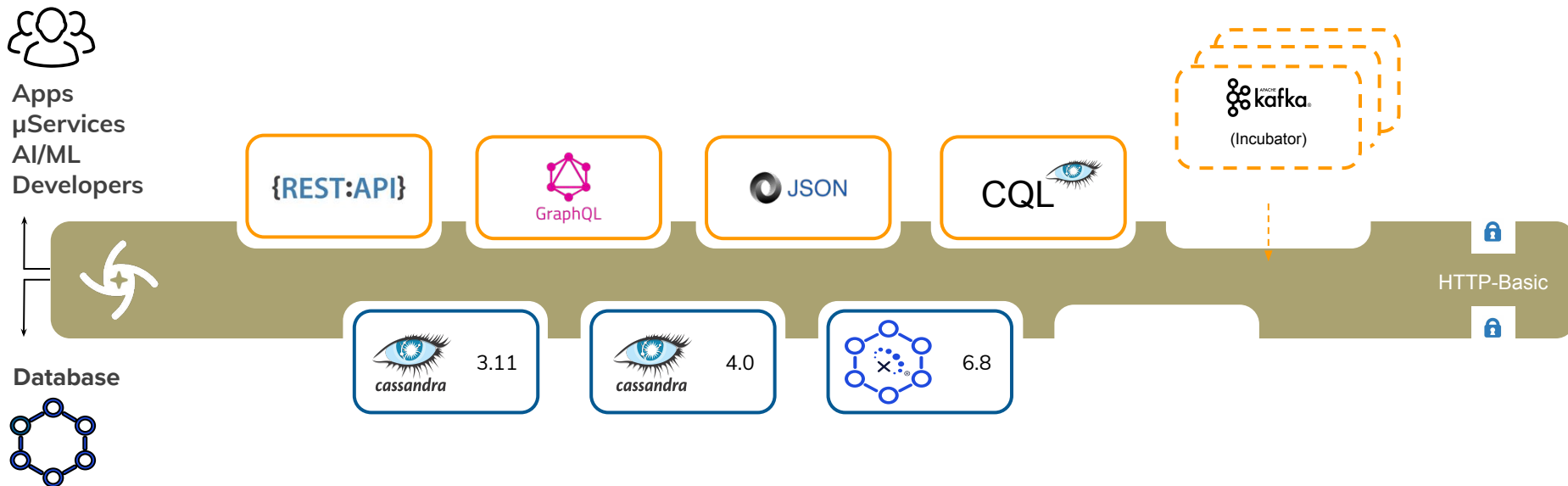
Streaming Initialised

Streaming With Dashboarding

STARGATE

DataStax Strategy: Hybrid Database as a Service

HYBRID	**Luna** OSS | a La Carte Features	**Astra Hybrid (DSE)** Enterprise Managed	**Astra Cloud** as a Service	

Tools

Thought Leadership

DATABASE	Apache CASSANDRA™

Enterprise Support

Partnerships

OSS Commitment

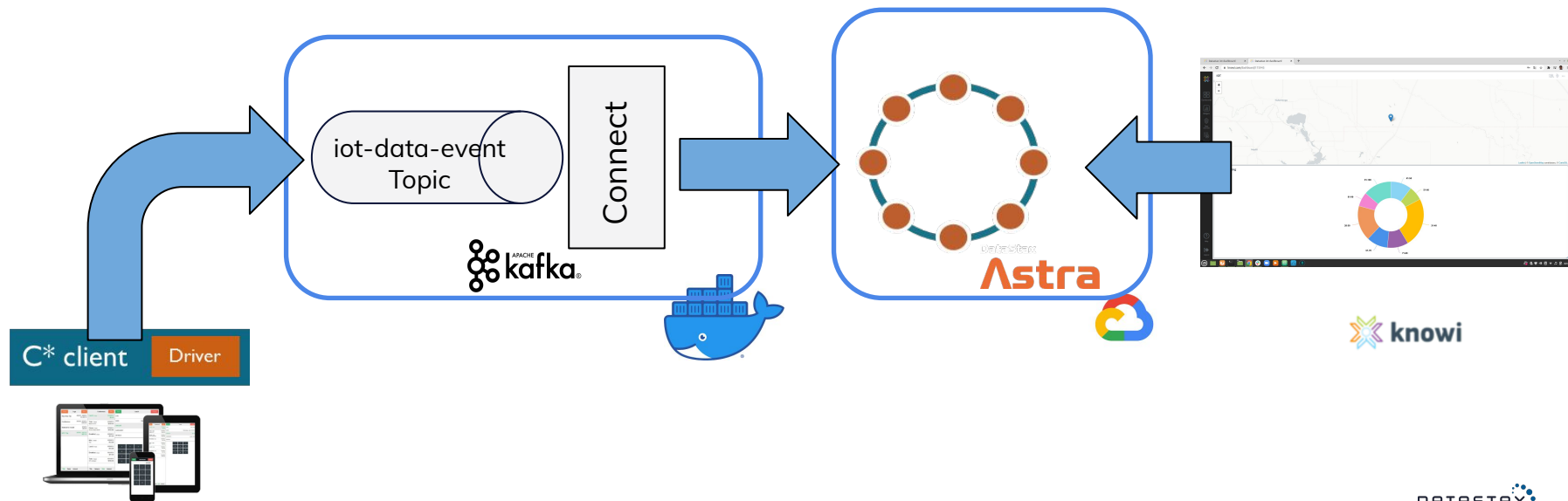|	
AS A SERVICE	**Astra Control Plane** Kubernetes | GUI | API
	Vector (AI Ops)
	Developer Gateway (APIs)

DATASTAX

Stargate.io : An Open Source API Framework for Data

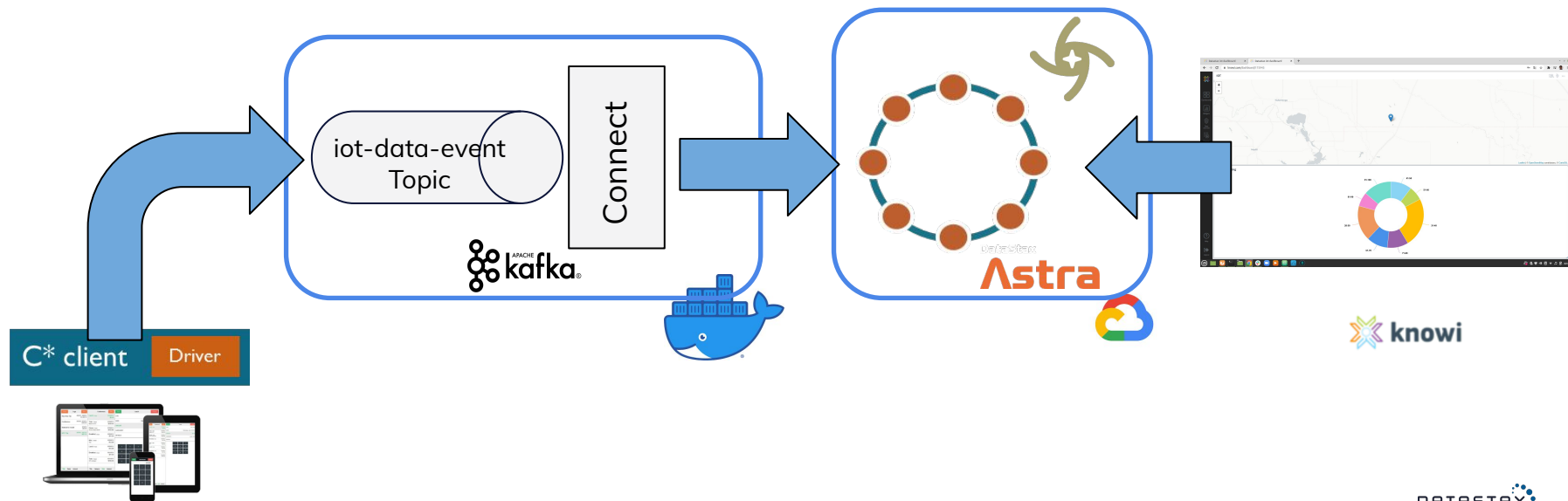Stargate makes it easy to use a database for any application workload by adding plugin support for new APIs, data types, and access methods. stargate.io
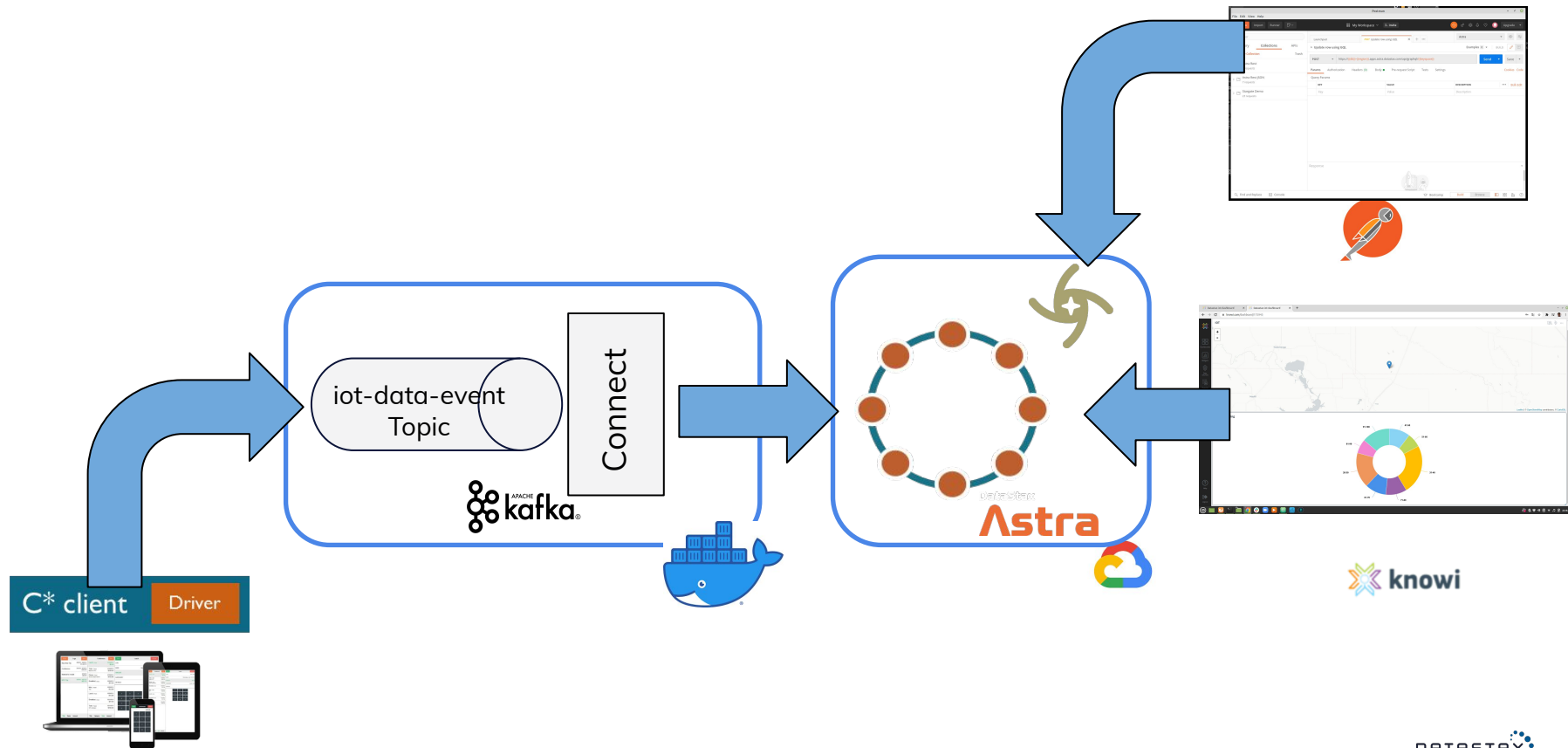
Stargate

Stargate

Rest Apis Demo

Thank you
Questions?
Feedback?