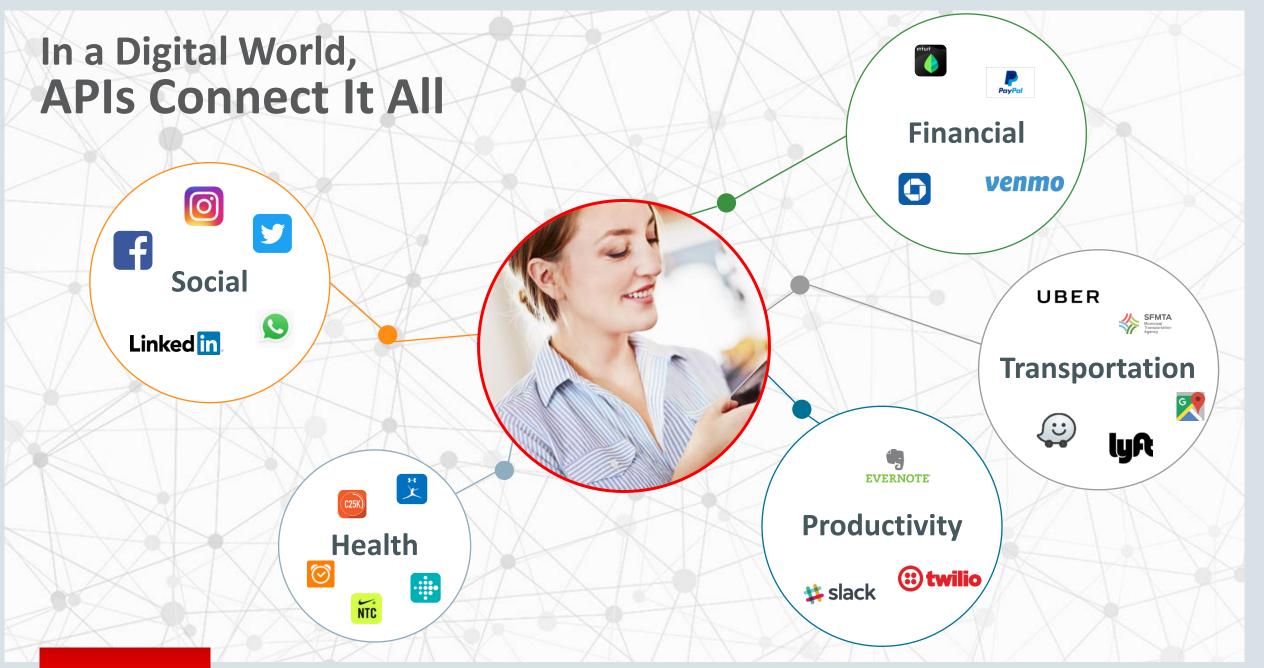
## API-First Design & Management with Oracle

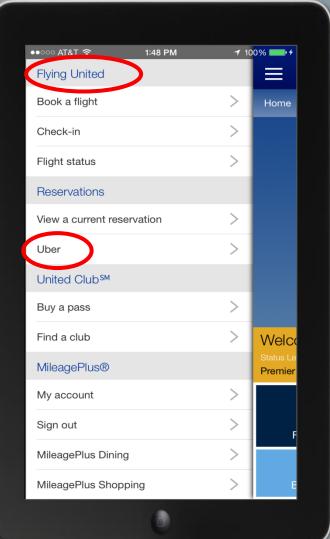
Petrohán Zsolt

## WHY APIS MATTER





## What is an API?



ORACLE

 An API is an interface that provides controlled access to a business process or data

Example: booking an Uber ride from an airline's mobile app

- Uber benefit:
  - more exposure  $\rightarrow$  more customers  $\rightarrow$  more revenue
- Airline benefit:
  - cool mobile app feature  $\rightarrow$  happier customers  $\rightarrow$  more revenue

# Significant shift in Business to an API Economy

## In a 2002 internal memo, Jeff Bezos (Amazon) mandated:

- •All teams use service interfaces
- •Teams must communicate through service interfaces
- •No other form of interprocess communication allowed
- Runtime technology does not matter
- •All service interfaces, without exception, must be externalizeable

The mandate closed with: "Anyone who doesn't do this will be fired."



## **API FIRST STRATEGY**



## Important Definitions

#### **API Management**

The process of publishing, documenting and overseeing application programming interfaces (APIs) in a secure, scalable environment.

#### **API-First Development**

API-first is a fundamental paradigm shift where APIs are designed, tested, and built *before* applications and mirror the *goals and objectives of the company* 

#### API Design

The process of engaging all stakeholders to *define in human language* the APIs to create a *"contract"* of what will be delivered *before expensive development begins*.

### Why Does API Management Matter?



### Approach **design** with the end in mind

Gain **visibility** & define the *right* metrics

# Improve **agility** & quickly meet user demand



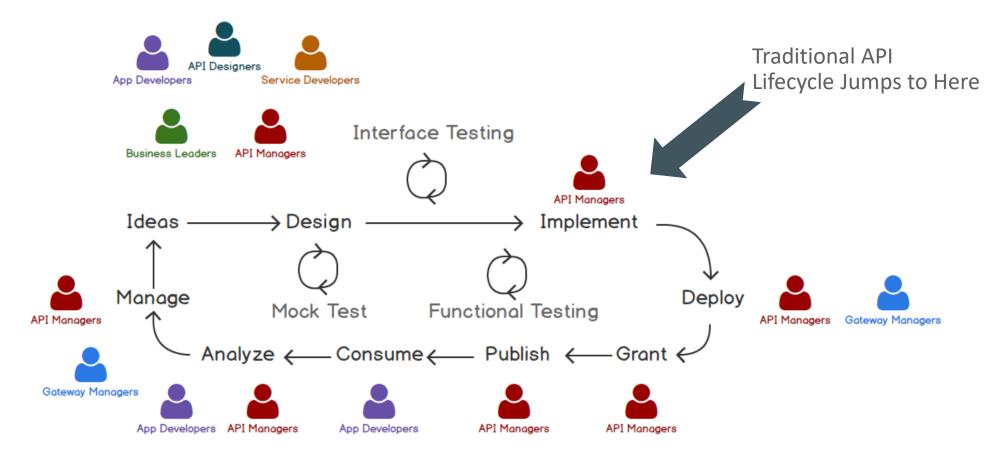
\$

Copyright © 2017, Oracle and/or its affiliates. All rights reserved.

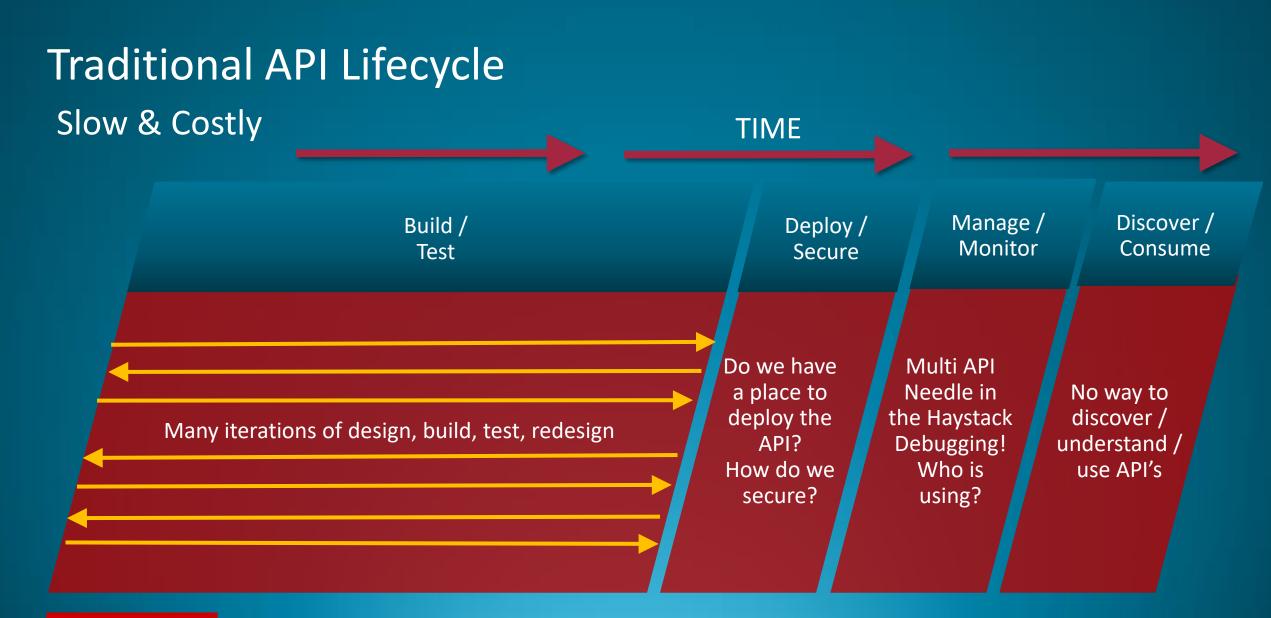
## DAY IN THE LIFE OF AN API



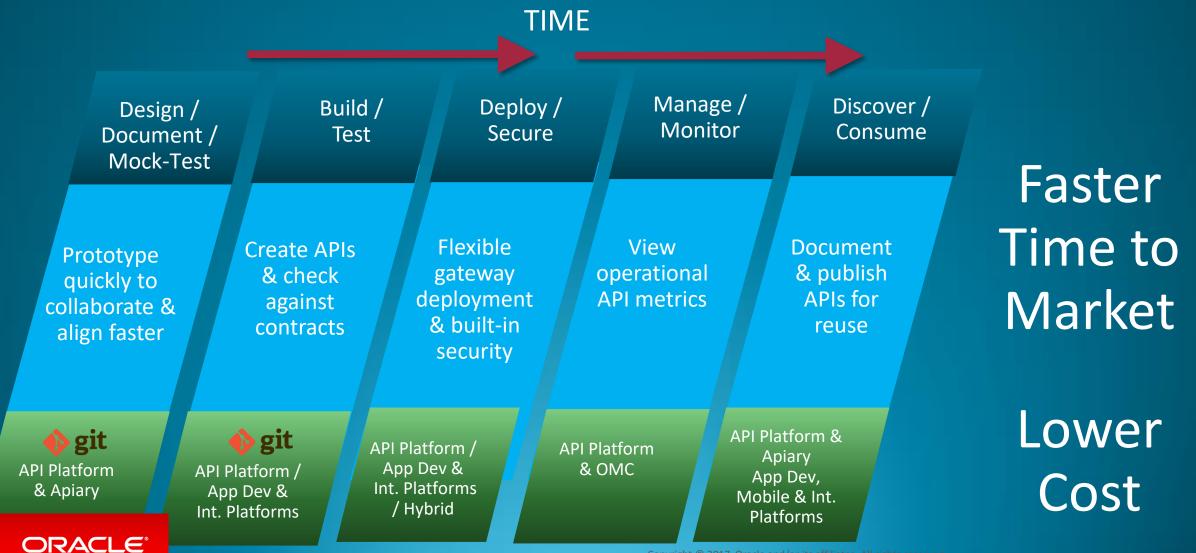
## API Lifecycle From Ideas to Engagement







## The API-First Lifecycle

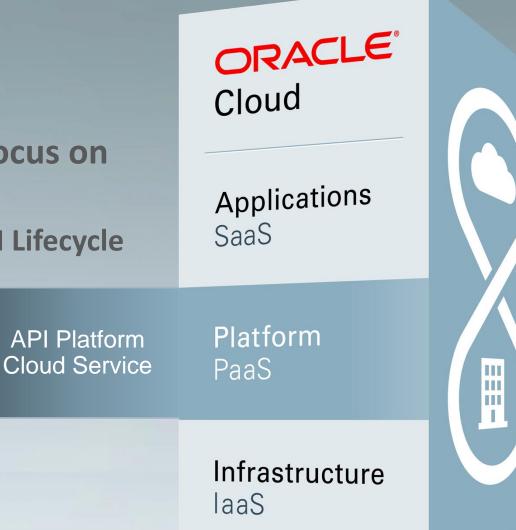


## THE ORACLE SOLUTION



### Building Great APIs Complete Lifecycle

- For teams who build APIs and want to focus on delivering great products
  - Only solution that supports the complete API Lifecycle
  - Allows developers, architects and business to work together
  - Superior to traditional API Management tools that take too much effort to stitch together and maintain





ORACLE®

270,000+ API Developers 3M+ API Consumers



## **API Platform Cloud Service**

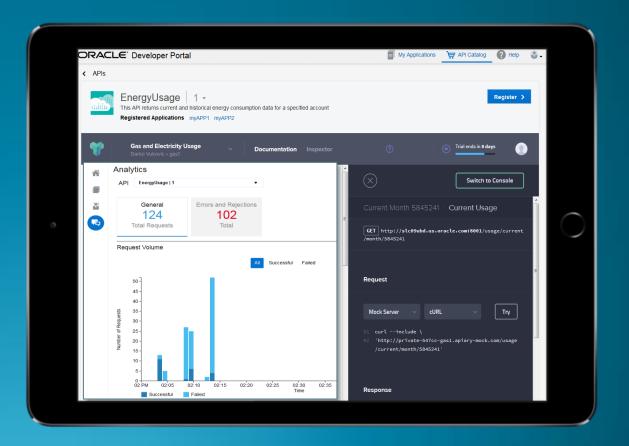
#### Next-gen, hybrid architecture

• End-to-end capabilities to

Design.Publish.Build.Consume.Secure.Monitor.Deploy.

#### Easy to use

- Completely new, simplified API management experience
- Support changing business demands
- Clear visibility into who is using APIs
- Operational flexibility gateways can be deployed in the Cloud or on-premises

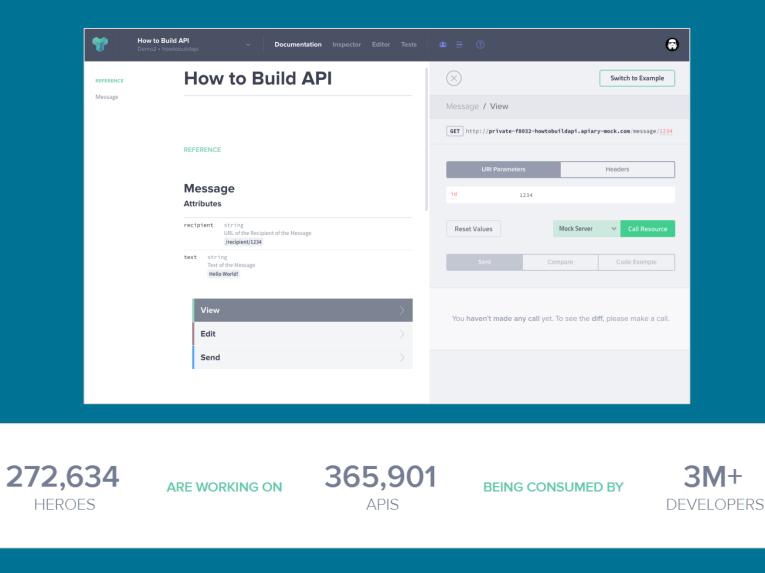


## Oracle Apiary, a Perfect Starting Point

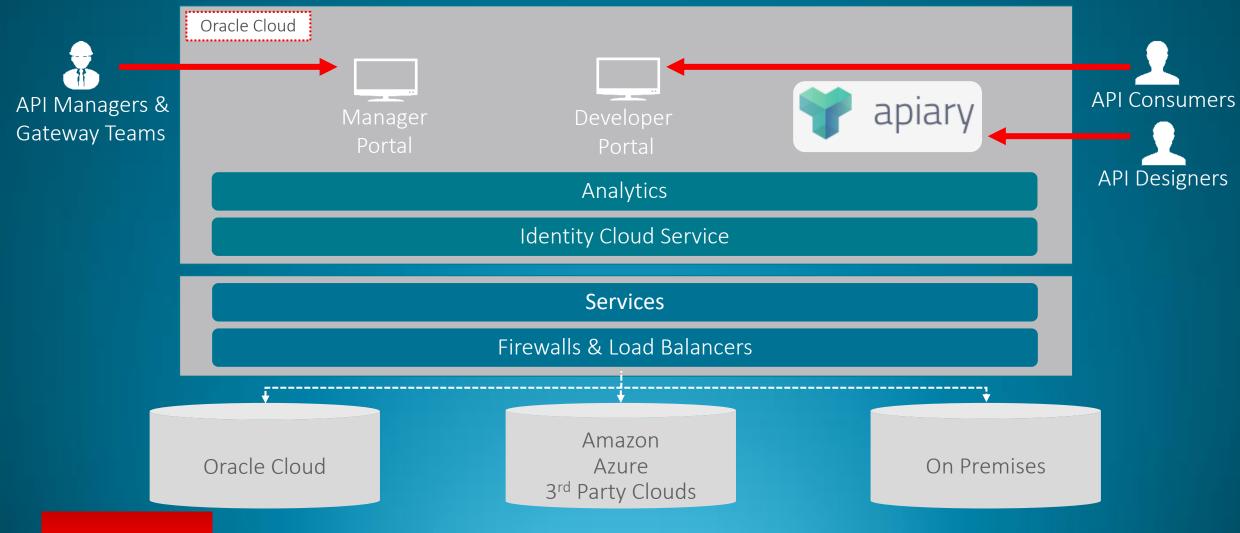
#### **APIARY TOOLS**

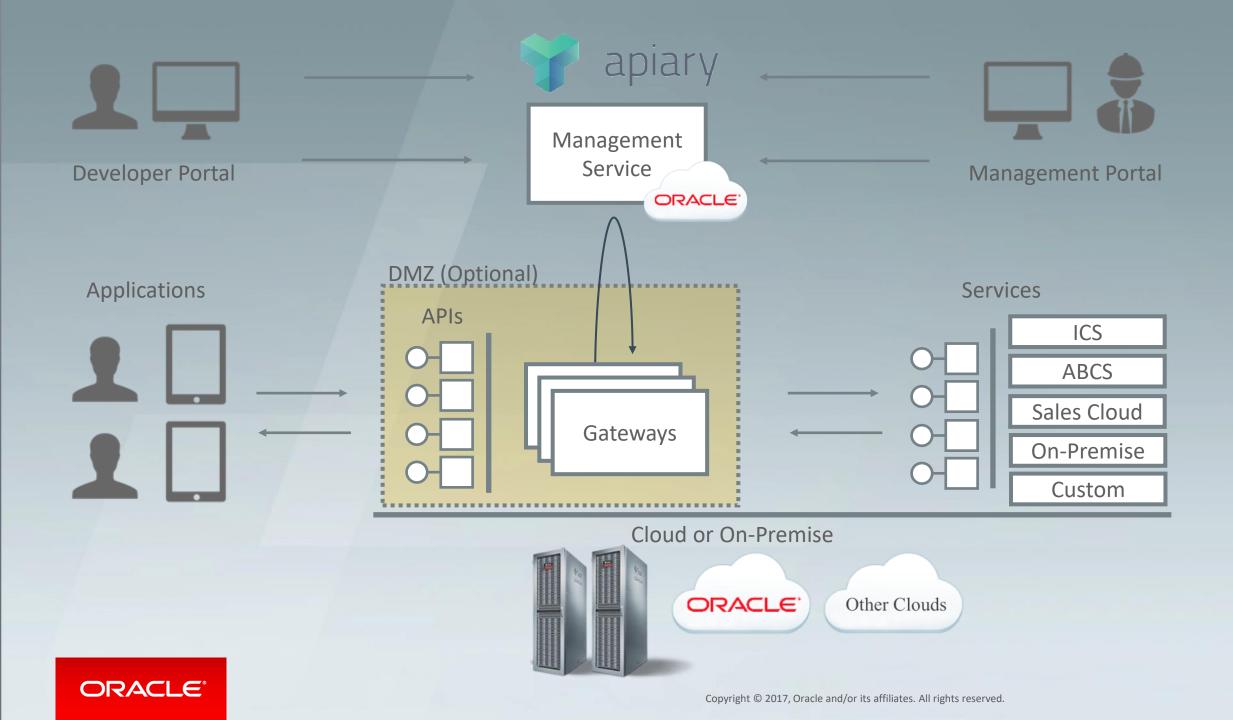
and Integration

APIARY Editor
Interactive Documentation
Mock Server
API Inspector
GitHub Sync
GitHub Integration
Automated Testing
Apiary CLI
GitHub Enterprise (GHE) Integration
GitHub Enterprise (GHE)
GitHub Enterprise (GHE) Integration
GitHub Enterprise (GHE) Integration Integrated Code Examples



## **API Platform Cloud Service**





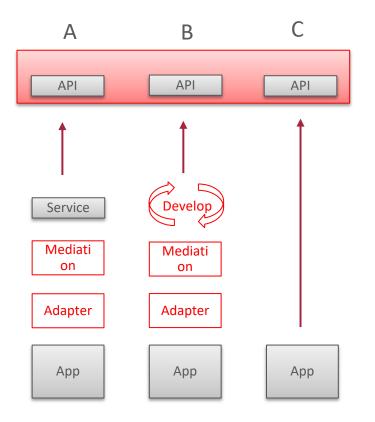
## **Oracle Apiary Customer Success**



# SCENARIO OF DEMONSTRATION

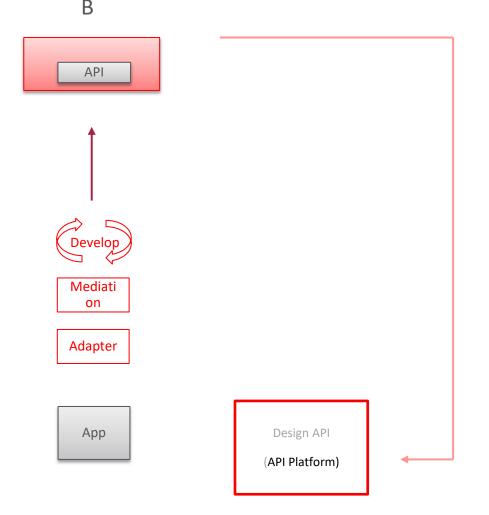


## **Options In Exposing Externally**

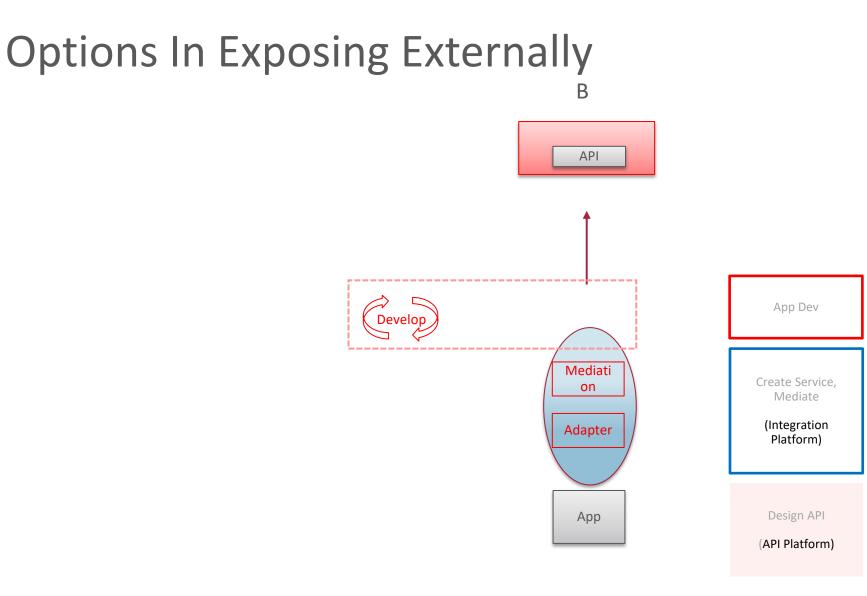




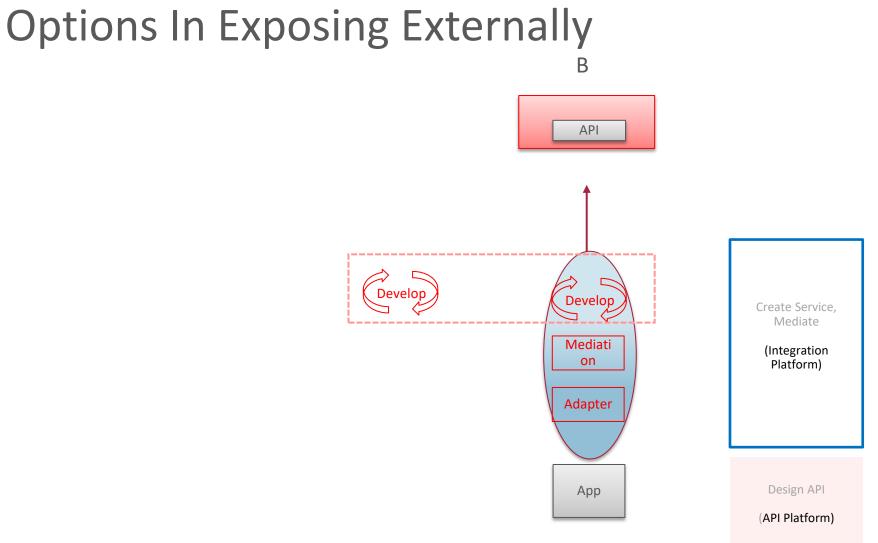
## **Options In Exposing Externally**



#### ORACLE

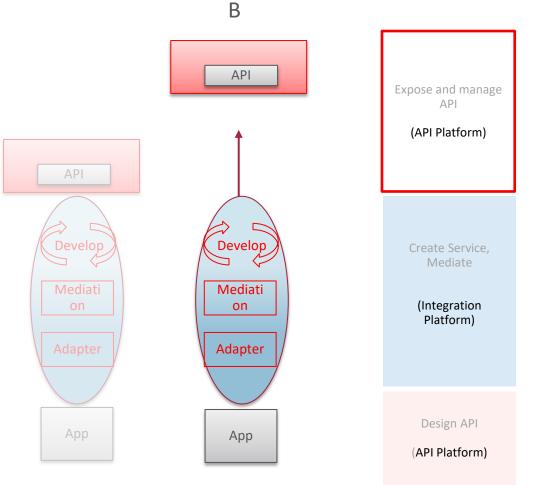


### ORACLE



ORACLE

## **Options In Exposing Externally**





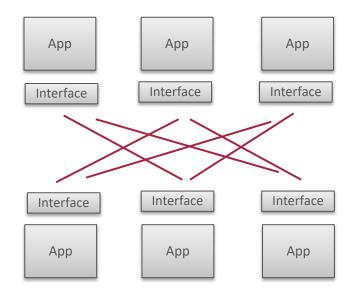
"orgName": "contactFirstName": "contactLastName": "contactEmail": "country": "orgID": "status":



## DEMONSTRATION : DESIGNING & DOCUMENTING APIS, APIARY INTERACTIVE DOCUMENTATION, APIARY MOCK SERVER

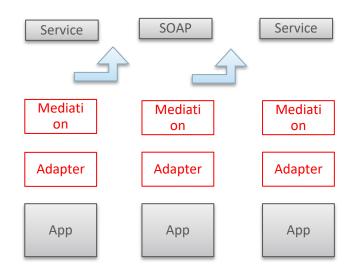


### Stage - Point To Point Integrations



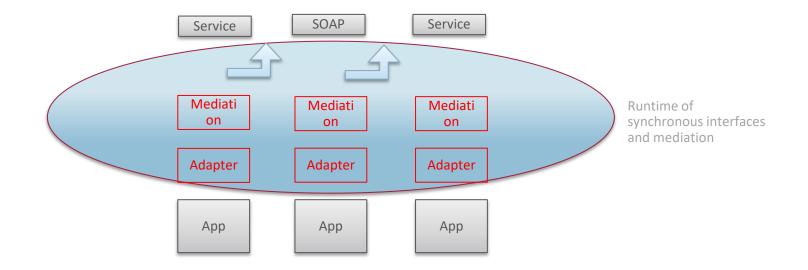


## Stage - Service Buses



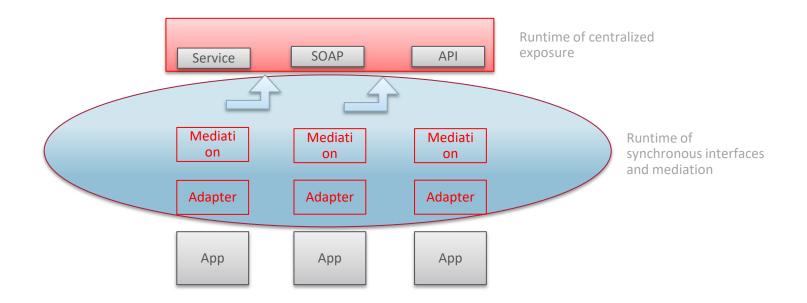


## Stage - Service Buses



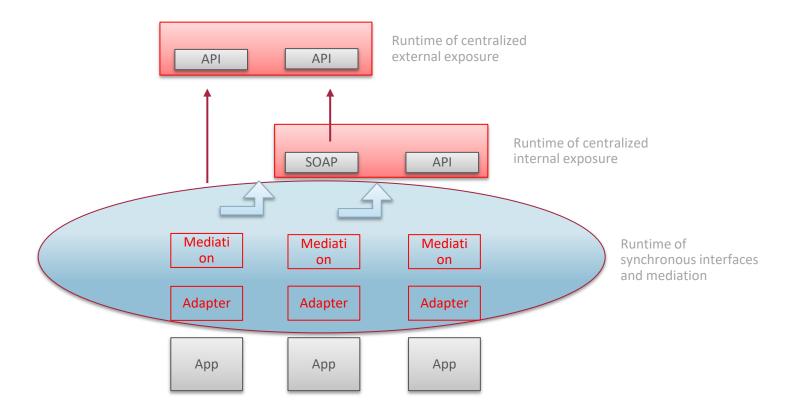


## Stage - Gateways



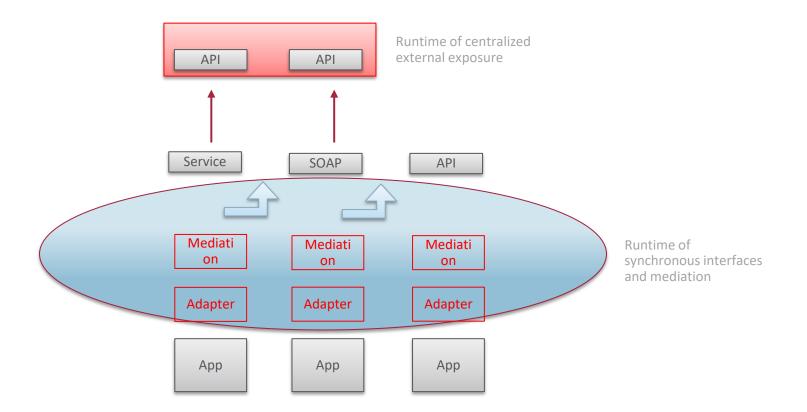


### **API** Gateways





## **API Gateways**

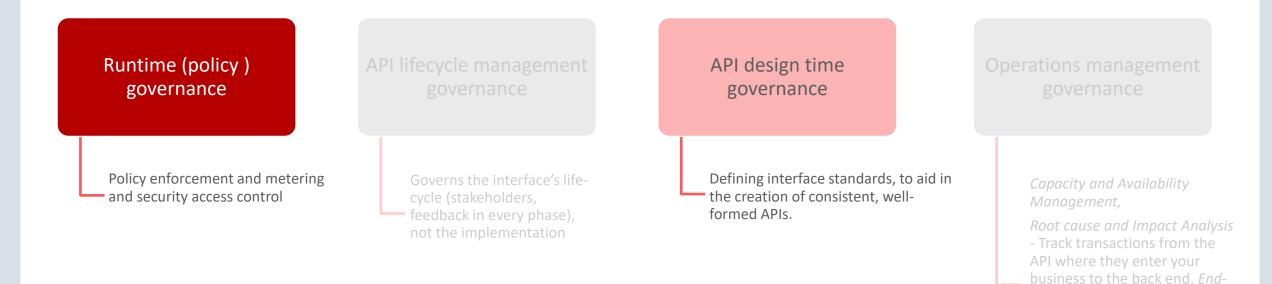




## DEMONSTRATION : CREATE API, DEPLOY API, MANAGE POLICIES, API ANALYTICS



## Governance With API Management



ORACLE

to-end Security – Use the appropriate security models and standards for services and APIs even if they are different.

## DEMONSTRATION: PUBLISH API AT THE DEVELOPER PORTAL

