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# Oracle API Platform Cloud Service

Roadmap, Vision, and Demo

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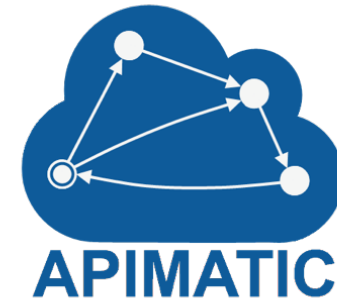
# Program Agenda

- 1 Partnership Announcements
- 2 Vision
- 3 Demo: APIP, Container Native App. Dev. Platform, API Fortress
- 4 Questions

## Partnership Announcements



A leading API Testing & Monitoring solution



Automated SDK generation & specification transformation

# Current Functionality

- **Management Service**
  - **API Catalog** – Know what APIs you offer
  - **API Design & Implementation** – Design, mock, and implement new APIs quickly
  - **API Testing & Monitoring** – Test API Interfaces and *Functionality (Via API Fortress)*
  - **Deployment Management** – Centrally manage availability of APIs across all Gateways
  - **API Governance** – Ensure consistency with styleguides, reuse services, and track changes with history service
  - **Subscription Management** – Manage who uses your APIs, and to what degree
  - **Operational Analytics** – Understand who is using your API, how, and if they are encountering issues
  - **User Roles & Grants** - Control access to your APIs with instance specific grants
- **Gateway**
  - **Runtime Policies** – Top security and traffic management runtime policies out of the box
  - **Hybrid Deployment Topology** – Deployed on-premises, Oracle Cloud, or other clouds
- **Developer Portal**
  - **API Catalog** – Show API consumers which APIs are available to them
  - **Interactive Documentation** - Give API consumers the information they need to succeed
  - **Auto Generated SDKs** – Via APIMATC - give your consumers language specific SDKs to more easily consume your API
  - **Self Service** - Allow API consumers to self register and subscribe to APIs.

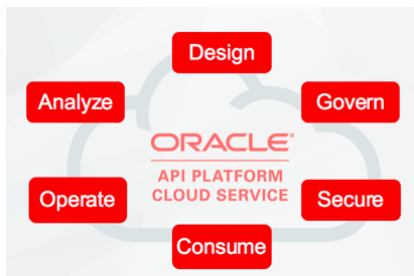
# Competitive Differentiators

## Native Hybrid Gateway Deployment



First Hybrid Native API Management platform across all clouds and on-premises with deployment management from a cloud service

## Full API Lifecycle Management



End to end lifecycle for managing APIs: Design, Implementation, Deployment, Testing, Publication, Subscription, Monitoring, and Analysis

## Governance



Wide ranging, productivity boosting governance, with Apiary Styleguides, approvals workflows, grants, policy management and analytics.

## Pricing



Value driven pricing, does not punish preparing for traffic spikes, high availability, or disaster recovery. Consistent and predictable pricing independent of GW deployment.

## Feature 1:

# API Plans GA

- Many to Many to Many between applications, plans and APIs
- Limits, Price, and Scopes at Plan, API and Action levels
- Logical GW Access Control
- Full control over text in developer portal
- Self Service Subscription
- Grants
- Analytics

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The screenshot displays the Oracle Developer Portal interface. A modal window is open, showing details for the 'Supply Chain Partners - Premium' API plan. The plan includes a 'Subscribe' button, a price of \$1000/month + \$0.001/API Call, and a limit of 100k calls/month. Below the pricing, there are sections for 'Subscribed Applications' (listing Shipping Tracker and Driver Device App), 'View APIs Entitled to this Plan' (listing Inventory API 6.1, Product Info API 12.6, Sales History API 2.0, and Warrant API Beta-2), and 'API Actions (Specific)'. The API Actions section lists several actions with their respective HTTP methods and endpoints:

Action Name	Method	Endpoint
Check Status	GET	/inventory/{id}/status
Add Item	POST	/inventory
Update Count	PUT	/inventory/{id}/count
Update Status	PUT	/inventory/{id}/status

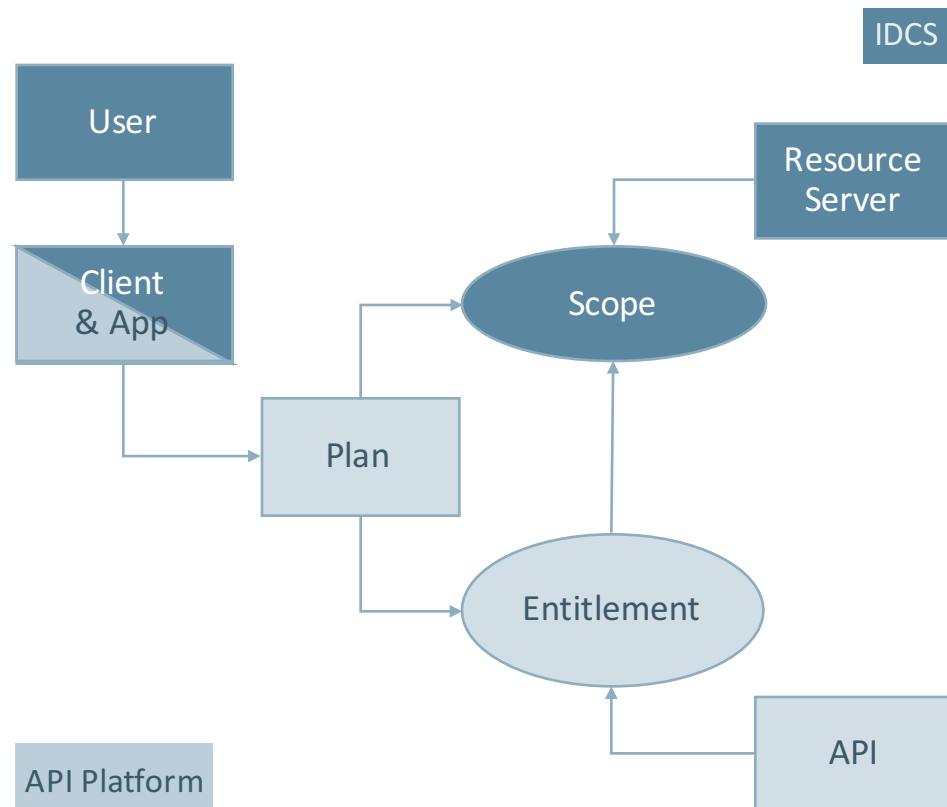
The background of the screenshot shows a list of other API plans, including 'Inventory API' and 'Supply Chain Partners - Custom Plan'.



## Feature 2:

# Native OAuth AS

- Full OAuth Configuration in API Platform
- Access Management Defined by API Plans
- Backed by IDCS OAuth Authorization Service
- One copy of object with API Platform orchestrating IDCS



## Feature 3:

# API Fortress Integration

- Out of box integration to:
  - link projects
  - see tests
  - run tests
  - view results
- OAuth login flow
- Test Design in API Fortress
- API Fortress **Sold Separately**, proportional to APiP Price

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The screenshot displays the Oracle API Platform Cloud Management Portal interface. The main page shows details for the 'Bacon API', including its status (Published, Alpha), iteration (7), and last updated time (May 10 2017 3:10 PM). A 'Run Tests' dialog box is open in the foreground, allowing the user to select a 'Deployer' (EU\_EAST) and a 'Gateway' (GW1). Under the 'Tests' section, the user has selected 'Get Polls' (Post deployment) and 'Your first test' (Post deployment). A green button at the bottom of the dialog reads 'Run Tests (1)'. The background interface includes sections for 'API Quality' (2 Tests, 5 Events, 5 Failures), 'Project tests' (with filters for Post deployment, Security, Shop), and 'Previous Test Runs' (showing successful test results for 'Get Polls' on 2017/07/14 at 11:30).

## Feature 4:

# APIMATIC Integration

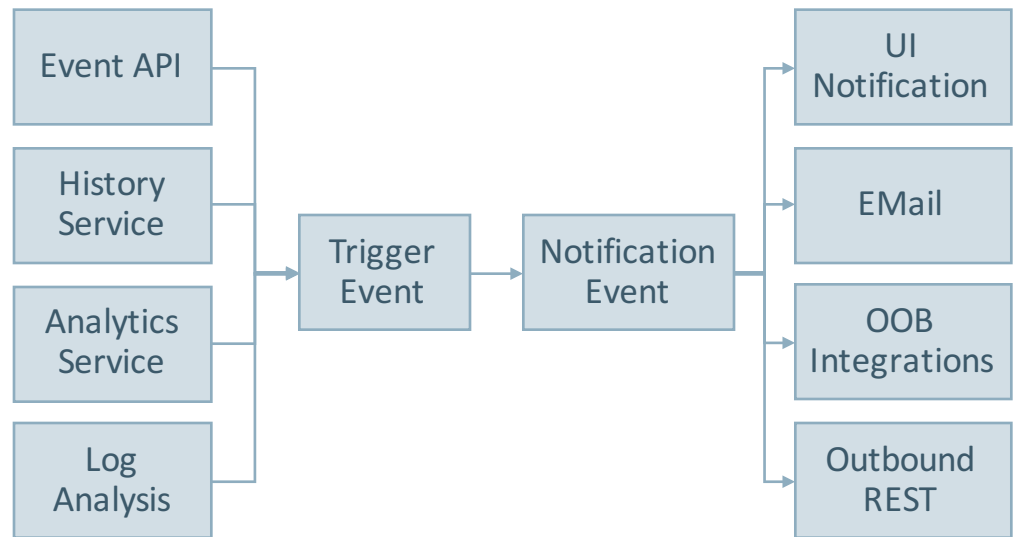
- Out of box integration to:
  - offer auto generated SKDs to APIs in the developer portal
  - Control which languages are presented
- OAuth login flow
- APIMATIC Sold Separately, proportional to APIM Price

The screenshot displays the 'Notes API' page in the 'OpenWorld Portal - Developer API Portal'. The page title is 'Notes API | 1.0 | Released'. Below the title, there is a description: 'An API that exposes the Notes Service, used for keeping track of content across many clients.' A 'Subscribe' button is visible in the top right corner. A navigation bar below the title features icons for various programming languages: C#/Net, Objective-C (selected), Android, Java, PHP, Python, Ruby, Angular.js, Node.js, Go, and an 'Export' dropdown. The main content area is titled 'Notes API Demo' and includes a sidebar with links for 'GETTING STARTED', 'How to Build', 'How to Use', 'How to Test', 'Initialization', and 'API ENDPOINTS'. The 'How to Build' section is expanded, showing instructions for building the SDK in Objective-C, including a 'Download SDK' button and a 'TODO: Add a description' section. The 'How to Build' section also contains detailed instructions on how to resolve dependencies using Cocoapods, including the command `pod --version` and `pod install`.

## Feature 5:

# Notifications & Webhooks

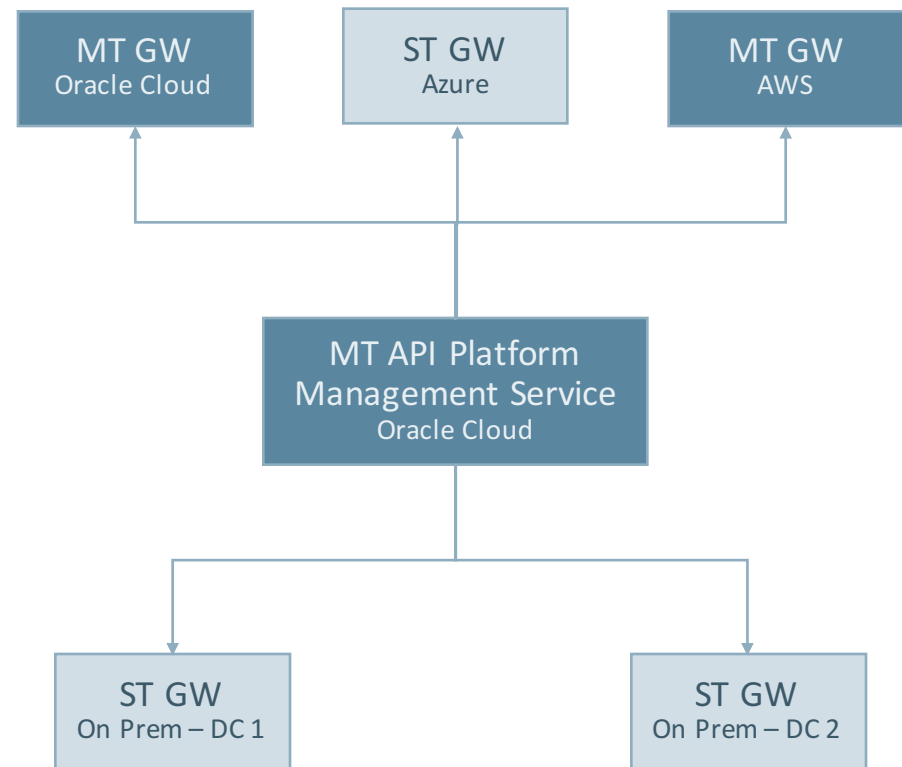
- Events on actions taken in management service, runtime analytics, runtime logs or custom REST API invocations.
- Triggers can be velocity or computation based.
- Many to Many between Events and Notifications
- Out of Box integrations with Incident Management System
- Custom REST calls for custom integration



## Feature 6:

# Gateway as a Service

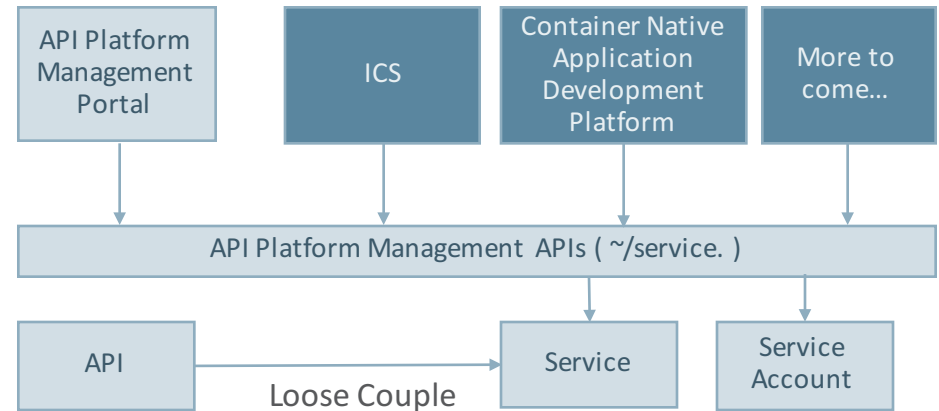
- Oracle operated and managed.
- Based on a modern microservice architecture and Grizzly Framework
- Available in OPC first and other clouds later
- Same policy SDK as the ST GW today
- Enrolling BETA customers now



## Feature 7:

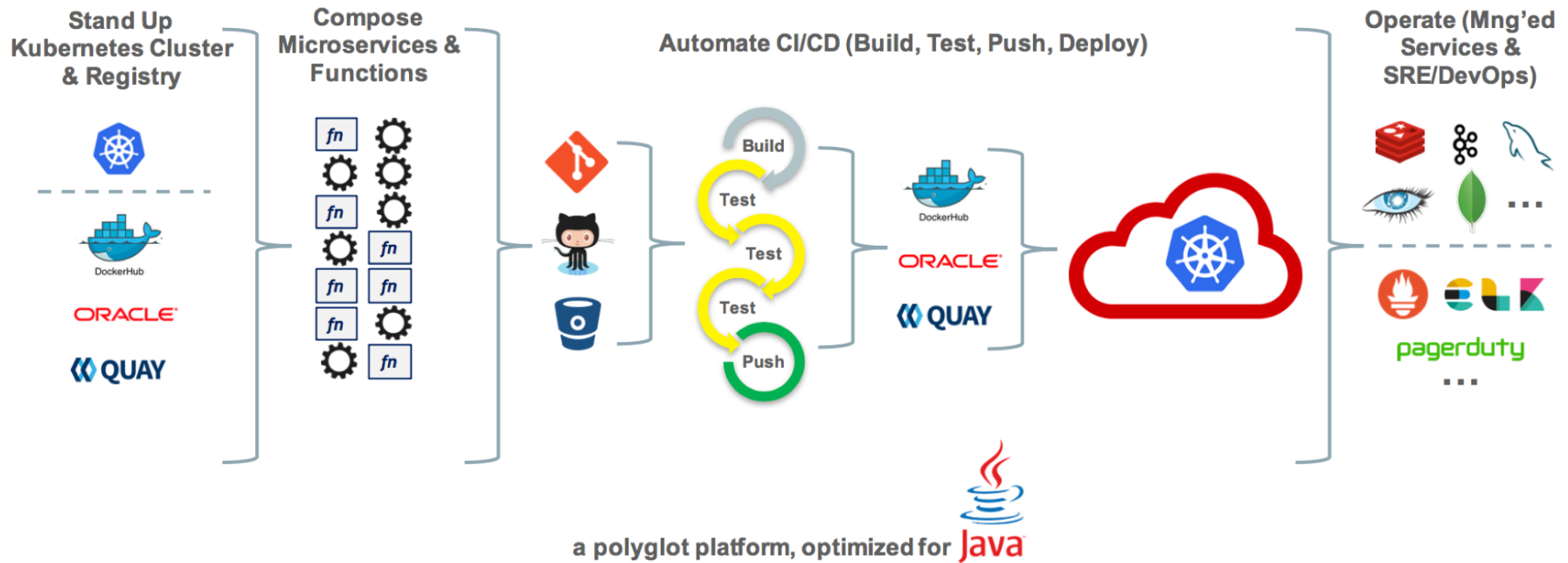
# Integration w/ Service Platforms

- Loose coupling between APIs and underlying service configurations
- Loose coupling between Services and Service Accounts
- No need to redeploy APIs post service configurations
- Out of box integrations from service publishing platforms



# Service Platform Vision: An End-to-End Container Native Suite

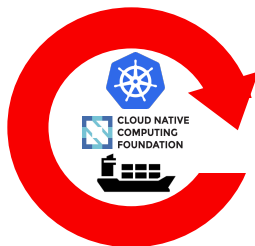
Build, Deploy, Operate – An Open, Standards Based, Cloud Neutral AppDev Platform



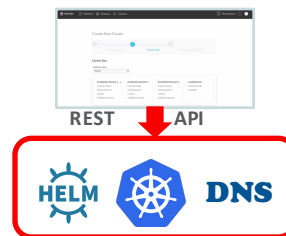
# Deployment: Oracle Container Engine and Container Registry

## Driving Down the Cost of Managing Kubernetes

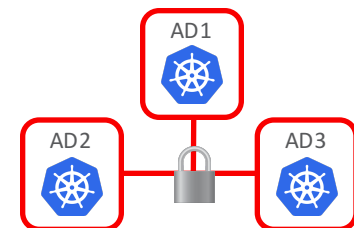
- Container Native
  - Standard Kubernetes; Fully Managed Lifecycle; Integrated Registry
- Developer Friendly
  - Simple, Streamlined User Interface; Rich API; Helm and DNS Built-in
- Enterprise Ready
  - Bare Metal Performance; Highly Available; Secure with Access Controls



Kubernetes with Lifecycle,  
Integrated Registry



Developer Friendly:  
REST API, Helm, DNS, UI



Secure, Highly Available,  
Bare Metal Performance



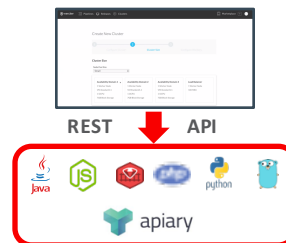
# AppDev: Oracle Container Native Microservices

An open (CNCF and Istio based), cloud neutral, platform makes it easy to develop microservices applications

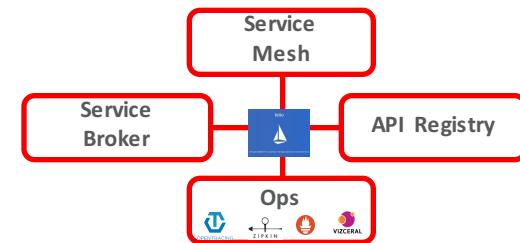
- Pre-integrated, Curated Platform
  - Open Source, Cloud Native Computing Foundation with Istio
- Developer Friendly
  - Opinionated but Open; **API first platform**
- Enterprise Class
  - Built on Kubernetes with Service Mesh, Service Broker and API Registry; Ops Built In



Pre-Integrated, Curated Platform  
CNCF + Istio



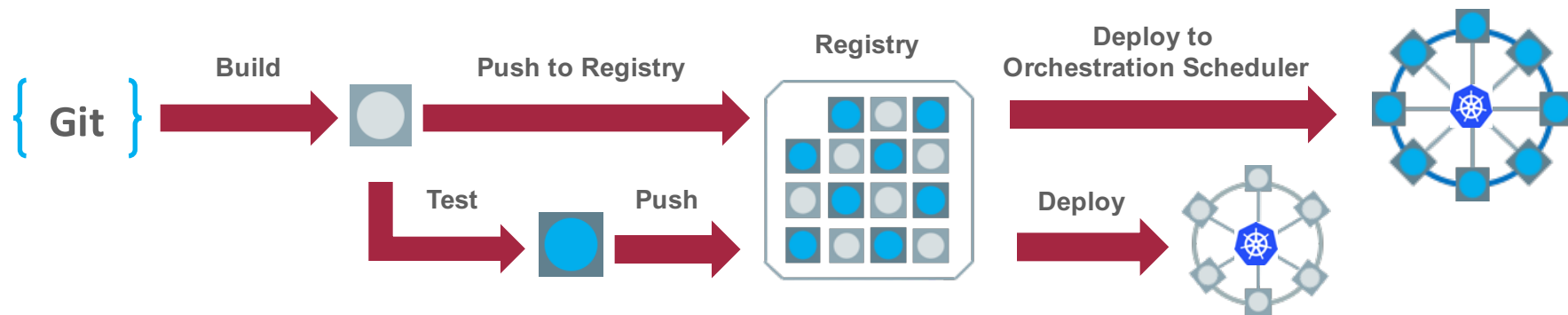
Developer Friendly:  
Opinionated But Open



Enterprise Class:  
Istio Service Mesh & Infrastructure

# With a Leading CI/CD and Container Lifecycle Solution

Container Pipelines (Wercker) - easy to assemble and automated builds to registries and production-grade clusters



OSS CLI



Pipeline/Build Console  
Workflow Automation



Chatbot Integration  
with Slack (Walterbot)



Oracle, Pivotal,  
Amazon, Google ...

## Demo

- An API already exists, its already being used by consumers.
- A backend service change needs to happen without affecting customers.
- With continuous delivery, backend changes happen so frequently that's it's impractical to include API Manager in each change.
- In this demo we will update the path of the underlying service and not impact the API or API consumers.

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