



# CA API Developer Portal

CA API Management SaaS

CA Developer Portal (Private Cloud)

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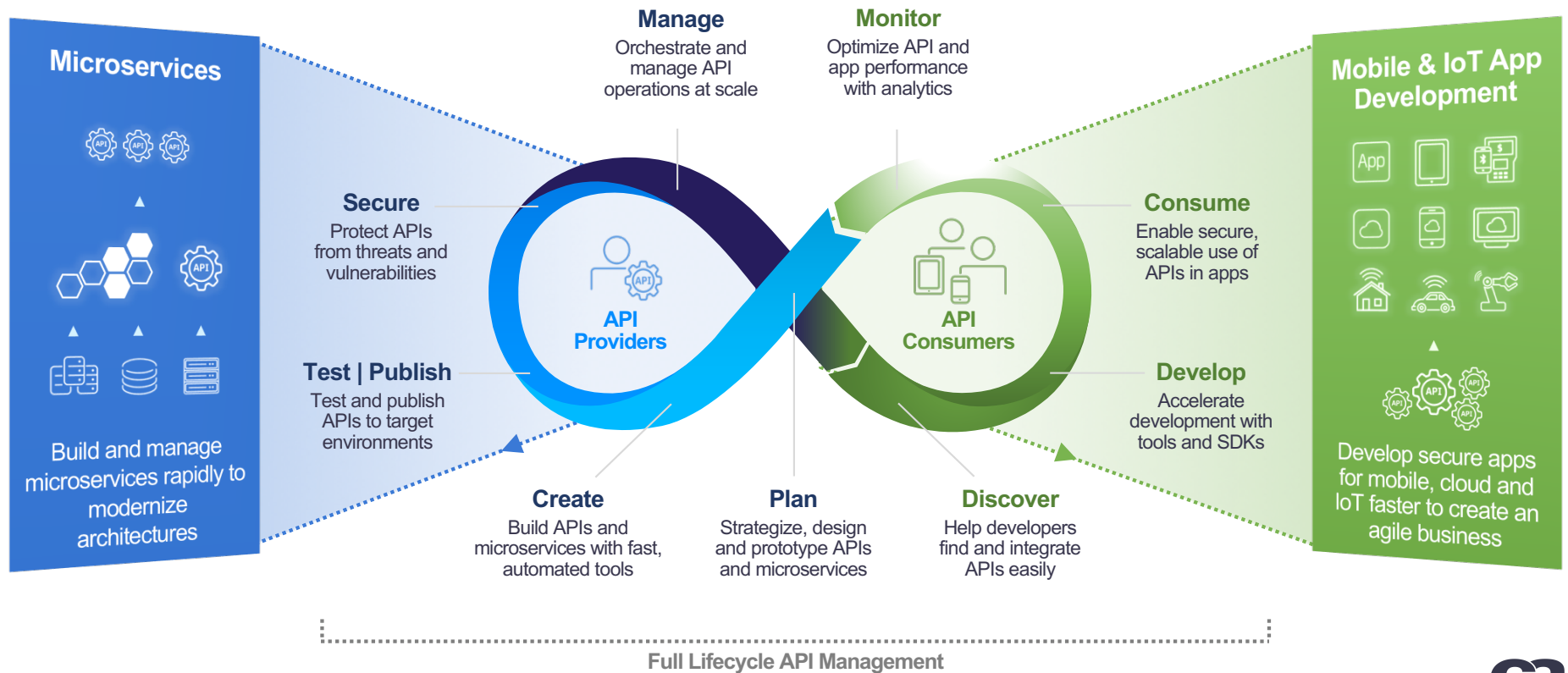
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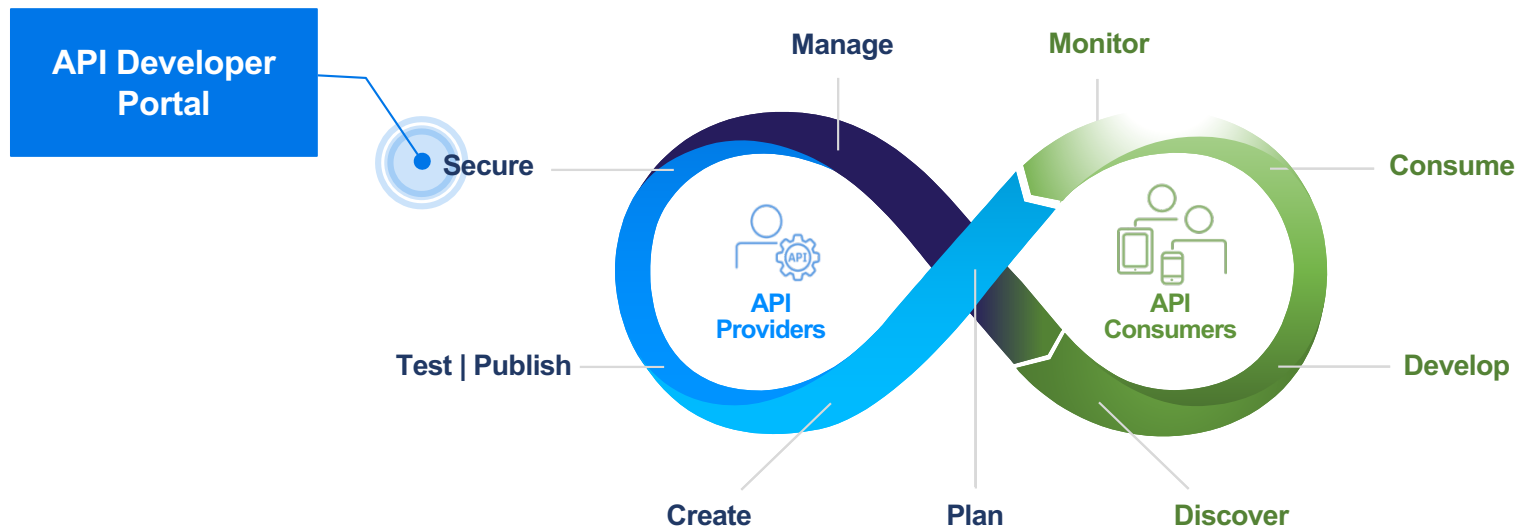




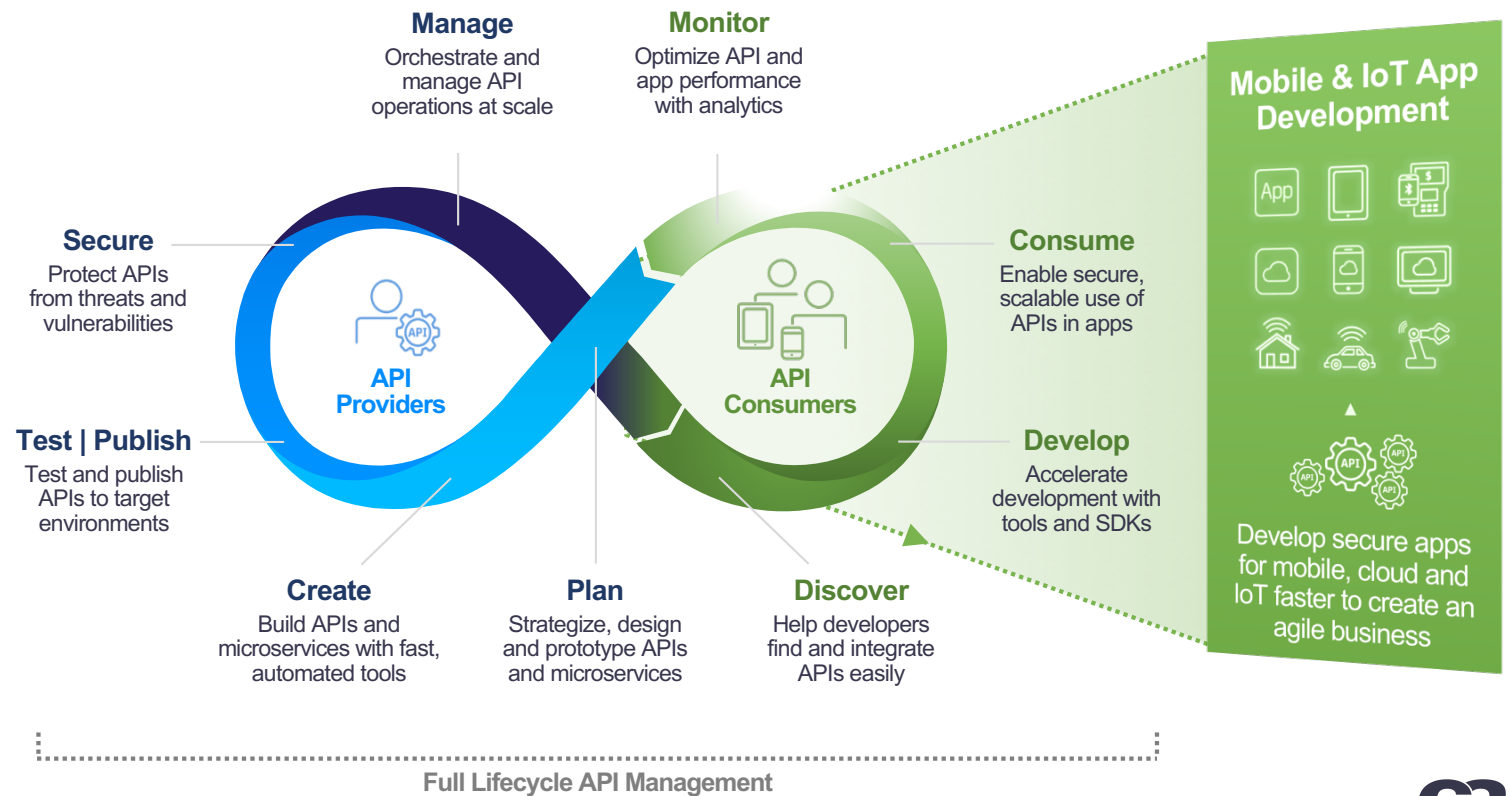
# The Modern Application Architecture Model



# Latest Innovations in CA API Management



# New Developer experience



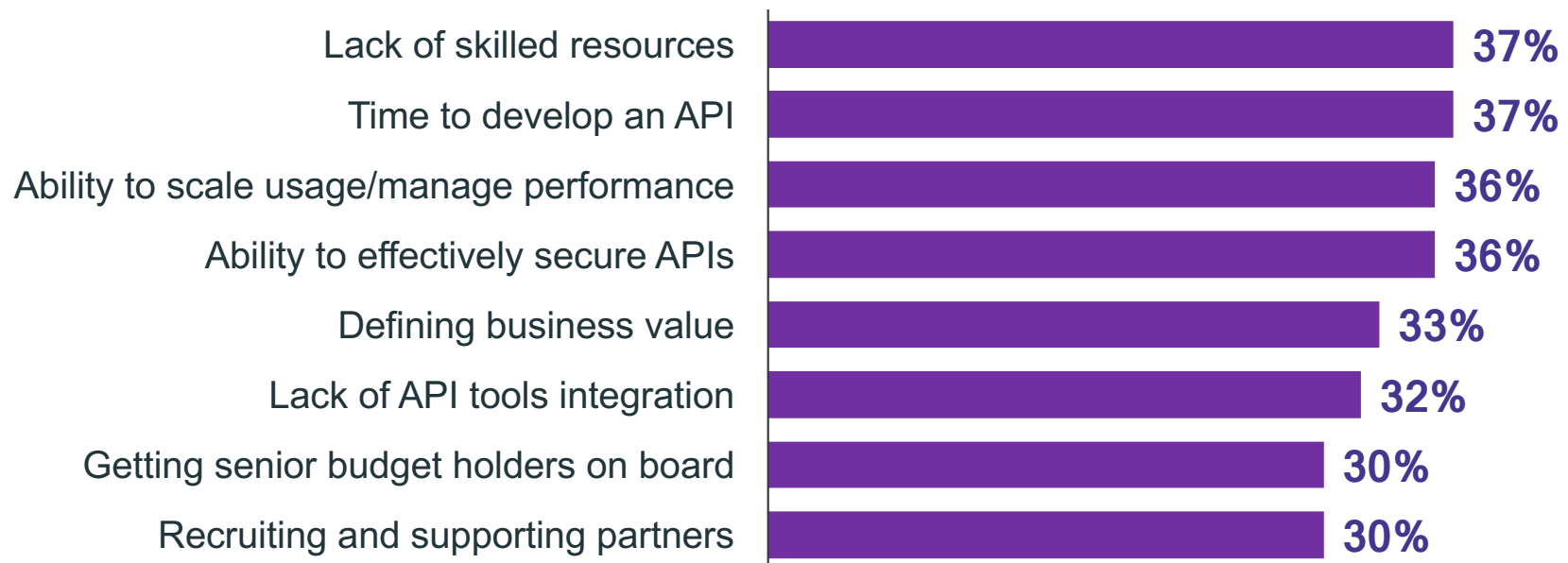


# Why do we need a API Developer Portal?



# Core Obstacles to Fully Leveraging APIs

Includes skills, time to develop, ability to scale and ability to secure APIs



Coleman Parkes Research, "Business Impact of APIs", January 2017  
Base: 1,770 ITDMs that use APIs: Full Lifecycle users (264) Basic users (191)

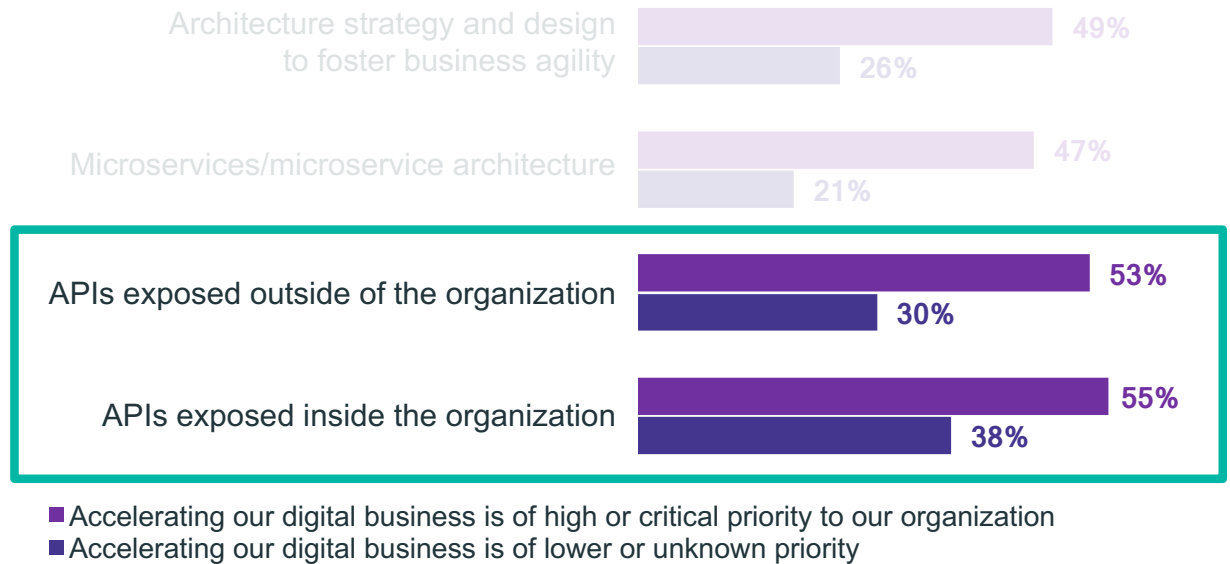




# APIs Accelerate Digital Business

**“Which of the following architecture styles does your organization currently use?”**

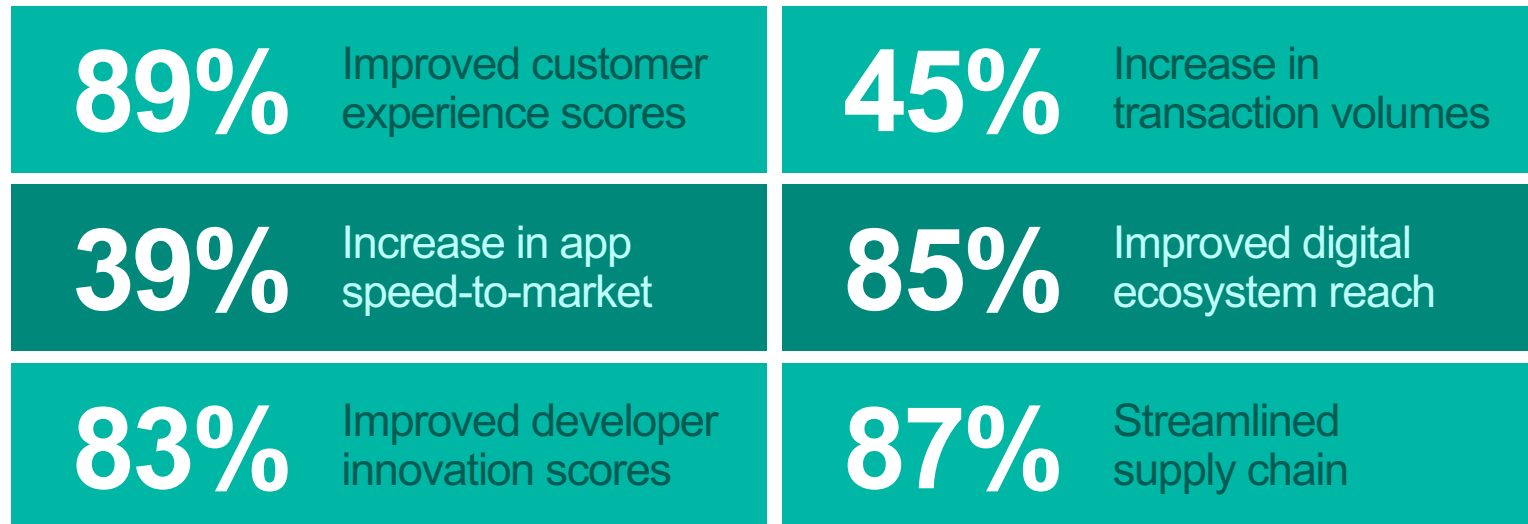
(Percentage planning to implement by 2018, implementing / implemented, or expanding / upgrading implementation shown)



Source: Microservices And External APIs Underpin Digital Business Firms With Digital Business Priorities Invest In Architecture For Agility  
by Randy Heffner October 17, 2017

# Advanced API Management Delivers Better Results

**47% better results** than basic API management,  
and up to **89% over those with no APIs.**



Coleman Parkes Research, "Business Impact of APIs", January 2017  
Base: 1,770 ITDMs that use APIs: Full Lifecycle users (264) Basic users (191)



# Product Overview

## CA API Developer Portal

### Business Problems Addressed

- Securely expose and manage public APIs using one Developer Portal
- Control partner access to enterprise APIs
- Coordinate internal developer access to APIs by Department, Business Unit or Organization

### Key Capabilities

- Speed app development
- Developer Management
- API Lifecycle Management
- API Security
- Centralized API stakeholder communication

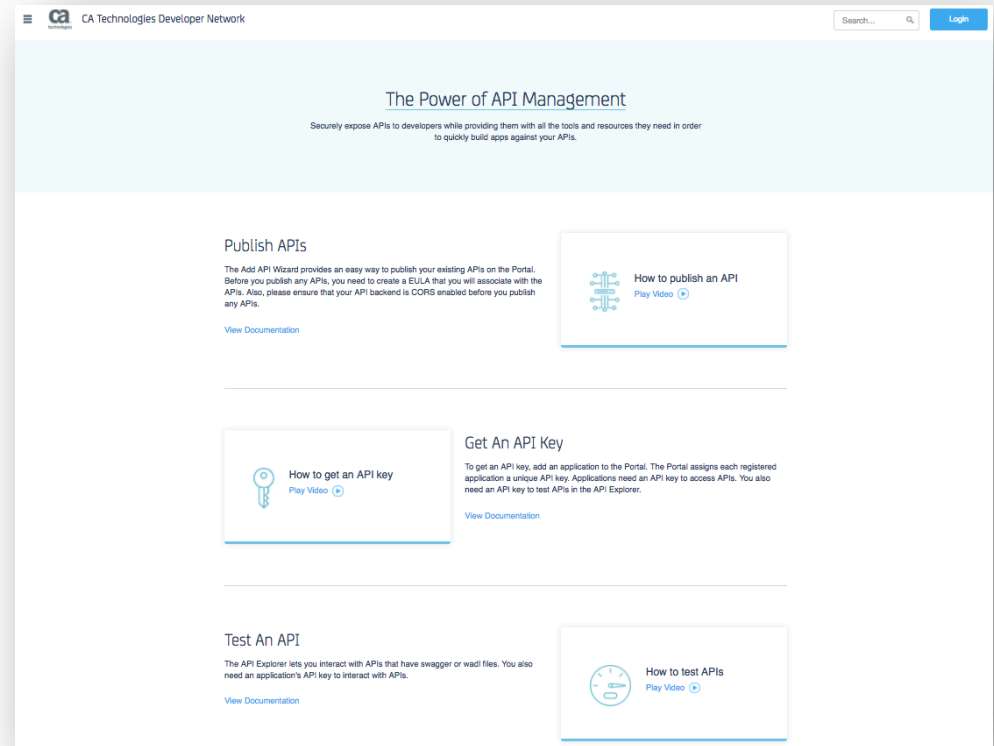
### Personas

- CIO/CTO looking to create a strategic advantage
- Business Unit Manager looking to API-enable their product/service
- API Owner/Product Manager concerned with managing their API lifecycle
- Developer concerned with tools to simplify creation of apps from APIs

# Vision

## CA API Developer Portal

A best-in-class **multi-platform API lifecycle and governance service** offerings, that will empower customers to design, test, secure, deploy, version, manage, publish, monitor, analyze and monetize – and their **developers to discover, collaborate and consume** – their APIs.



# Why CA API Management

## Highest Ability to Execute in the Gartner® Magic Quadrant for Full Lifecycle API Management

“CA has **solid security features** and good coverage of **API design, API management, mobile support, and the remaining full life cycle API management.**”

Figure 1. Magic Quadrant for Full Life Cycle API Management



Gartner Inc, Full Life Cycle API Management Magic Quadrant; Paolo Malinverno, Mark O'Neill, October 27, 2016

This Magic Quadrant graphic was published by Gartner, Inc. as part of a larger research note and should be evaluated in the context of the entire report. The Gartner report is available upon request from CA Technology. The Magic Quadrant is copyrighted 2016 by Gartner, Inc. and is reused with permission. The Magic Quadrant is a graphical representation of a marketplace at and for a specific time period. It depicts Gartner's analysis of how certain vendors measure against criteria for that marketplace, as defined by Gartner. Gartner does not endorse any vendor, product or service depicted in the Magic Quadrant, and does not advise technology users to select only those vendors placed in the "Leaders" quadrant. The Magic Quadrant is intended solely as a research tool, and is not meant to be a specific guide to action. Gartner disclaims all warranties, express or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose.

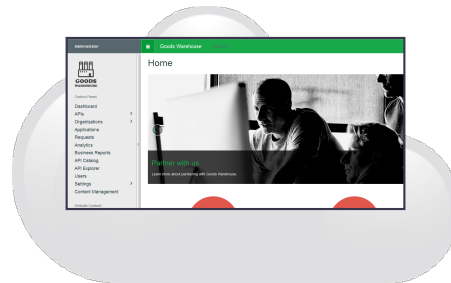


# API Developer Portal

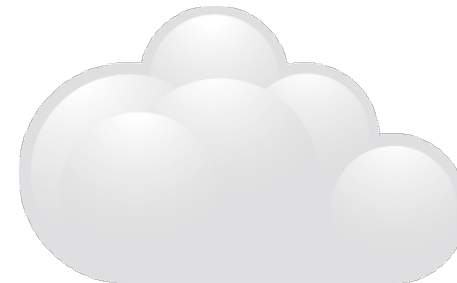
## Options



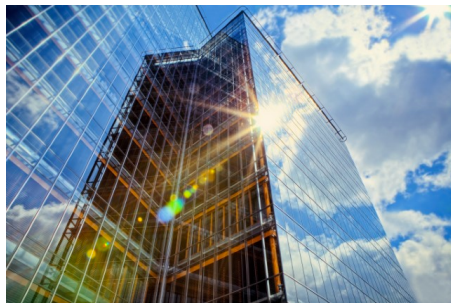
**SaaS**



**Hybrid**

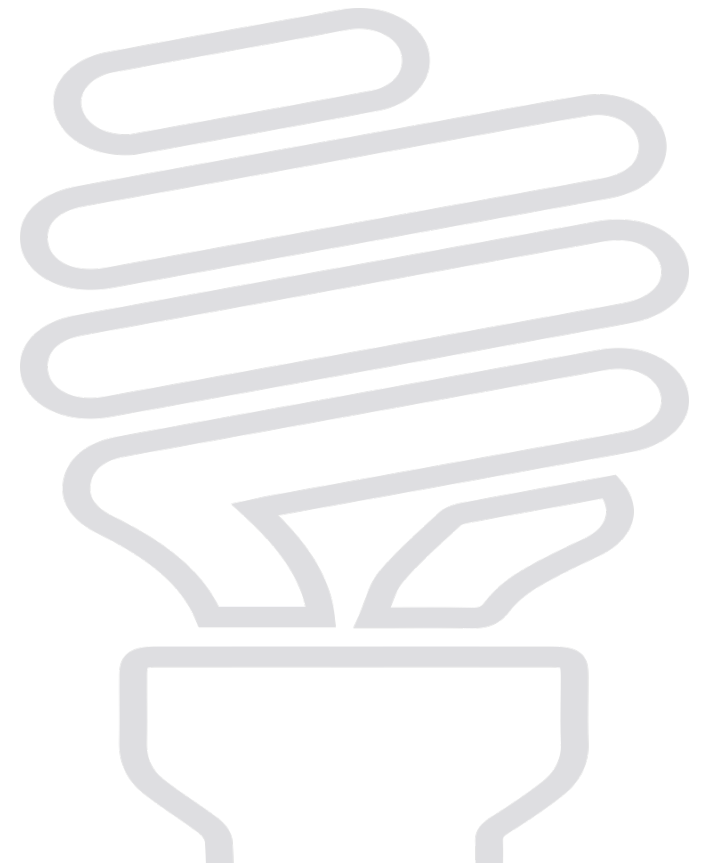


**Private Cloud**





# Roadmap



# Delivered

## CA API Developer Portal

- **New CA API Developer Portal Private Cloud**
- **New enhanced Developer Portal APIs**
- **Multiple users in multiple Portal Organizations**
- **User Authorization Service (RBAC)**
  - Multi-cluster CX/UI
  - New analytics (CA Jarvis)
  - CMS integration to SAML based solutions
  - Policy Builder

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# CA API Developer Portal Private Cloud



# CA API Developer Portal 4.2

## Overview to Docker

### Docker native

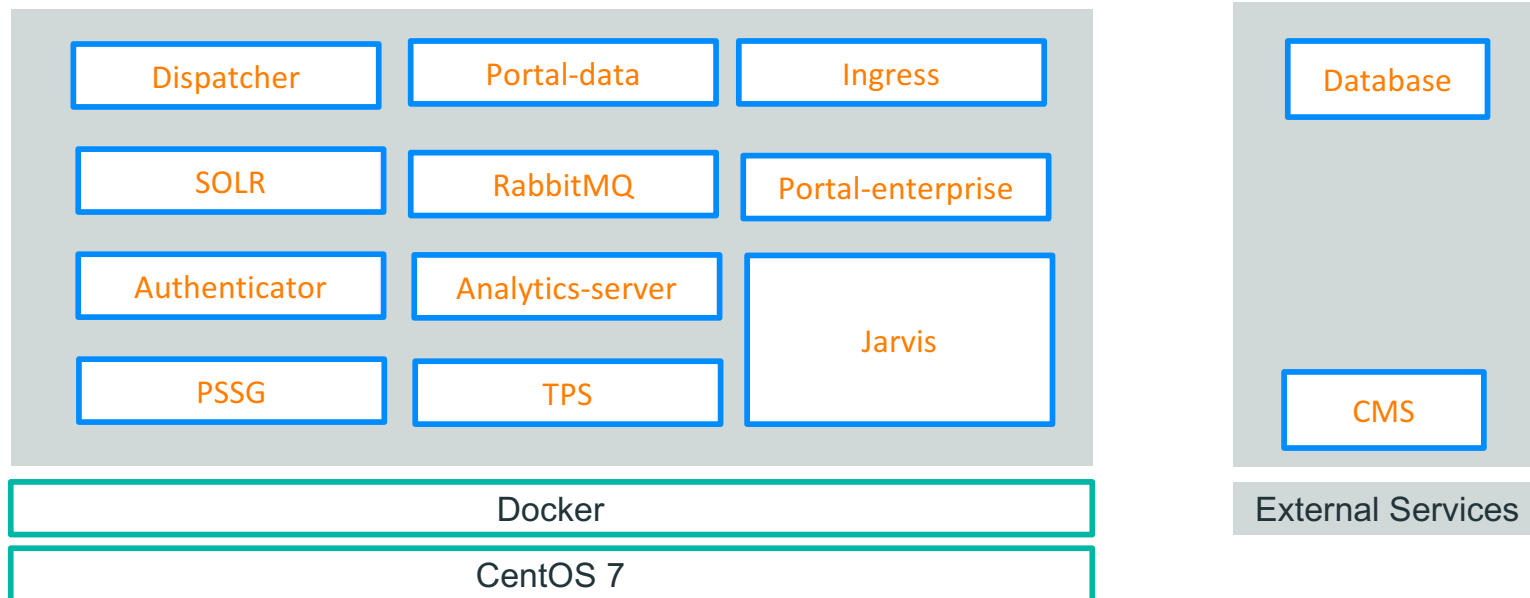
- Services are containerized
- 12 factored
- Immutable once created

### Docker Swarm

- Ease of use
- Lower learning curve
- Full featured and actively maintained

# CA API Developer Portal 4.2

## Architecture

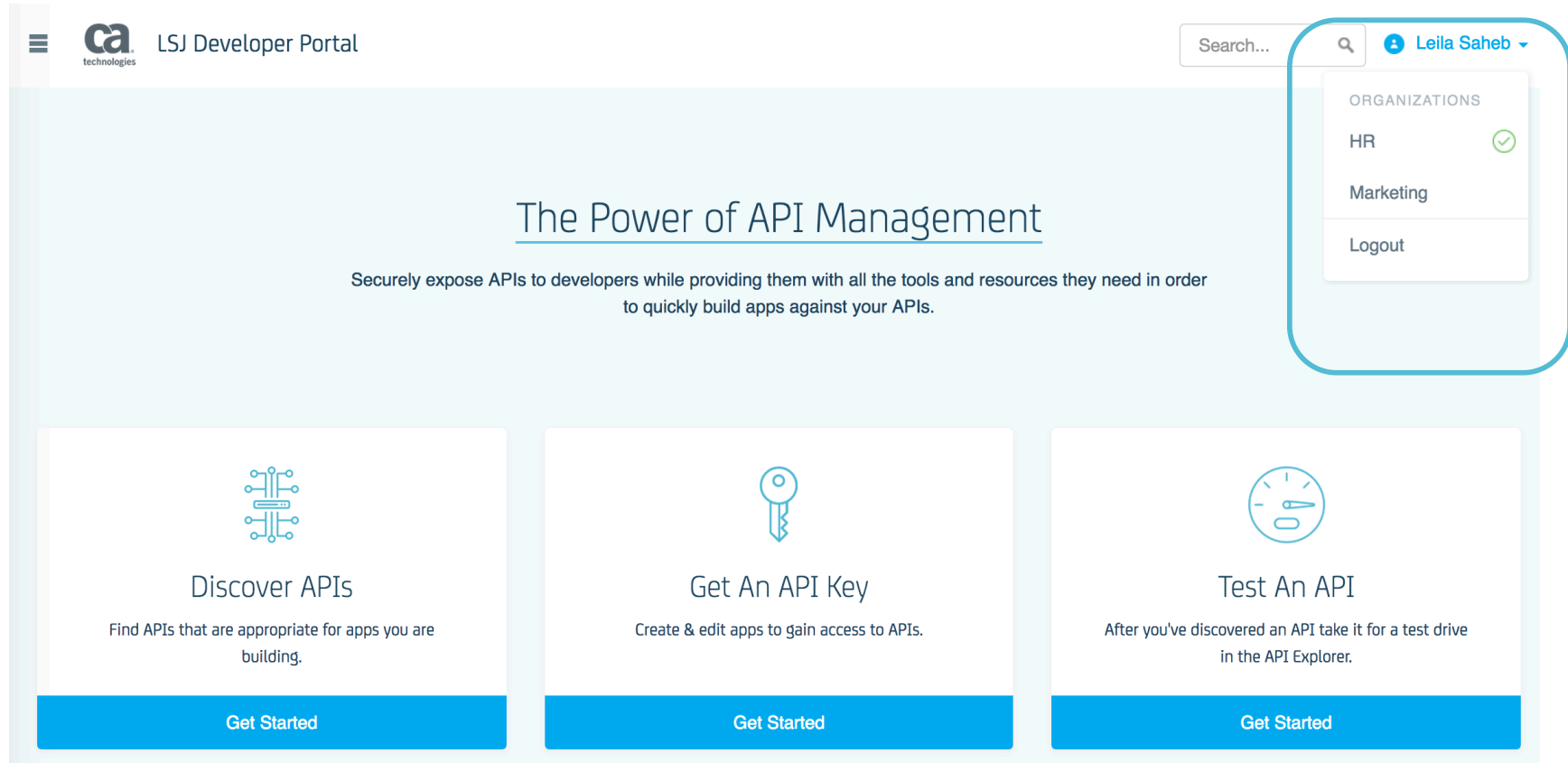


# CA API Developer Portal 4.2 (Future)

Component	Small	Medium	Large
Number of Nodes	1	3	6+
High Availability	No	Yes	Yes
CPU	4+ Cores	4+ Cores	8 Cores
Memory	32GB	32GB	32+ GB
Hard Disk	150+ GB	150+ GB	150+ GB

# Multiple roles


## CA API Developer Portal





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# Extend roles

## CA API Developer Portal

**CA Technologies** Developer Network

Search... 

Samul Admini 

**API**

Portal Authorization API (leila4) ▼

**App/API Key**

Portal API App for leila4 ▼

**Authentication Type**

OAuth 2

**Grant Type \***

Client Credentials

**API Key \***

e3cfd67b3021406596c23c0d53d74ecb

**Shared Secret \***

90ae9c55ab7647d5b77a1f874b6b87f

**Scope**

OOB

**Token Endpoint \***

https://apim-ssg-leilaproject.app.unvdev1.cs.saas.ca.com:443/auth/oe

Edit

**Request URL**

https://apim-ssg-leilaproject.app.unvdev1.cs.saas.ca.com:443/leila4/rbac/Roles/00000005-0005-0005-0005-000000000005/Entity/API/Permissions

**Response Code**

200 OK

**Response Header**

**Content-Type:** application/json; charset=UTF-8

**Response Body**

```
{
  "roles": [
    {
      "roleId": "00000005-0005-0005-0005-000000000005",
      "roleName": "devorgadministrators",
      "roleDescription": "Developer Organization Administrator",
      "permissions": [
        {
          "entity": "API",
          "operation": "CREATE"
        },
        {
          "entity": "API",
          "operation": "UPDATE"
        },
        {
          "entity": "APT"
        }
      ]
    }
  ]
}
```

# APIs by Organization

## CA API Developer Portal

## Add API

### Organization

Select an organization for your API.

### Details

Base information about your API.

### Proxy Configuration

Setup your proxy configuration.

### API Metadata

Setup your API metadata.

## Organization

### Selected Organization

Optionally assign your API to a specific organization from the list below.

### Available Organizations

CA Organization

Select

Finance Organization

Select

HR Organization

Select

Marketing Organization

Select

Sample Organization

Select

Next



### How do I publish an API?

1. On the Organization tab, optionally select an organization.
2. On the Details tab, enter an API name and version. Select a EULA.
3. On the Proxy Configuration tab, complete the proxy URL (the API's public URL). Enter the API's location (where the API Proxy routes requests from applications). Select at least one policy template and its parameters. If you select multiple policy templates, then the order that add them to the API corresponds to the order that the API Proxy will execute them during runtime.
4. On the API Metadata tab, upload a WADL or Swagger file for the API. Select the default authentication type that is used when testing the API with API Explorer. Enter public and private API descriptions.

Play Video 

[View Documentation](#)

## CA API Developer Portal Roadmap

Status	In-Progress	Planned (not started)	
Developer Console	<ul style="list-style-type: none"><li>• Search APIs</li><li>• Basic page branding</li></ul>		
Admin Portal	<ul style="list-style-type: none"><li>• Federated CI/CD deployments</li><li>• API Groups</li><li>• API Rate Limit &amp; Quota templates</li><li>• Search APIs</li></ul>		
Platform	<ul style="list-style-type: none"><li>• MySQL 5.7 certification</li><li>• Docker-native deployments</li><li>• CA Jarvis analytics engine</li><li>• CA Jarvis analytics dashboard</li><li>• Extensible Authenticator</li><li>• CA SSO support</li><li>• LDAP support</li></ul>		



# New Portal 4.2 (coming soon)

## CA API Developer Portal



CA Technologies Developer Network



Welcome back! Here are some resources you might need.

[Community](#) | [Support](#)



### [Publish ▶](#)

Publish and manage APIs, create apps, and manage your deployments.



### [Develop ▶](#)

Discover APIs to use in your apps.



### [Settings ▶](#)

Configure your portal and manage users.



### [Appearance ▶](#)

Manage the appearance of your portal and developer organizations.



### [Monitor ▶](#)

View real-time analytics for your APIs and apps.



# New Developer Console





Find APIs to start creating your App

Search APIs...



[View all APIs](#) 



## Showing All Apis

### 2Factor Authentication - India

● Available Version 1

2Factor.in provides extremely simple to use APIs for implementing 2Factor Authentication ( Phone verification ) with just 1 API Call. Best Part of...

### AlchemyAPI

● Available Version 1

AlchemyAPI provides advanced cloud-based and on-premise text analysis infrastructure that eliminates the expense and difficulty of integrating...

### Blazing Domain Availability Search

● Available Version 1

Check domain name's availability at blazing speeds using this free API. Currently we support com, net, org, biz, mobi and co domain search, will be...

### ClickSend SMS

● Available Version 1

Sign up for a free account at <https://clicksend.com>  
ClickSend is not a free service. Pricing can be found here <https://clicksend.com/?r=pricing/FREE>

### CloudSight

● Available Version 1

CloudSight API (fka CamFind API) is the image recognition and reverse image search that powers the popular mobile visual search engine app, CamFind....

### Crime Data

● Available Version 1

Crime data is great for safe neighbourhoods.FREE

### Currency converter

● Available Version 1

Simple and free currency converter. Insert an amount, what currency to convert from and what currency to

### Currency Exchange

● Available Version 1

Live currency and foreign exchange rates by specifying source and destination quotes and optionally amount to

### Deezer

● Available Version 1

Deezer is the No. 1 site for listening to music on demand. Discover more than 30 million tracks, create your own



Portal API (apim)

● Available

Version 1

Swagger File

Use API ▾

RESOURCES

[AccountPlans](#)

Returns a list of all Account Plans.  
Applications

ApiEulas

Apis

CustomFields

Organizations

Users

Settings

Requests

Resources

Provides access to Portal APIs for programmatically interacting with your Portal

## AccountPlans

Account Plan operations

### Returns a list of all Account Plans.

Returns a list of all Account Plans. All organizations should have an account plan. You can use an account plan to give organizations access to private APIs in addition to all the public APIs. You can also use an account plan to limit the number of times an organization's applications can hit your APIs per proxy. An organization cannot exceed the limits regardless of how the hits are divided among the organization's applications and your APIs per proxy. An account plan can have a quota, a rate limit, both, or neither. The quota specifies the maximum number of hits per day or month per proxy. The rate limit specifies the maximum number of hits per second. For example, a basic account plan could limit an organization to 1,000 hits per day per proxy and one hit per second. A premium account plan could have unlimited hits per day per proxy and 100 hits per second.

#### Definition

GET https://apim-sgg.dev.ca.com:38443/apim/AccountPlans

#### Response Model

```
{
  "type": "array",
  "items": {
    "allof": [
      {
        "type": "object",
        "required": [
          "Name",
          "Uuid"
        ],
        "properties": {
          "Uuid": {
            "type": "string",
            "description": "Unique key for this entity which conforms to the UUID :
",
          },
          "Name": {
            "type": "string",

```

Help



## Portal API App for apim

● Available

CLIENT ID: 566ac30e3883444c8c6b9a8984323ded

[APIs](#)

[Configuration](#)

App Name

Portal API App for apim

Maximum name length is 50 characters. Name must be unique.

Client ID/API Key

566ac30e3883444c8c6b9a8984323ded

Shared Secret

25262929467549c6b87a531359609f02

[Reset](#) ↺

State

Enabled

Disabled

OAuth Callback URL(s)

https://apim.dev.ca.com/admin/oauthCallback

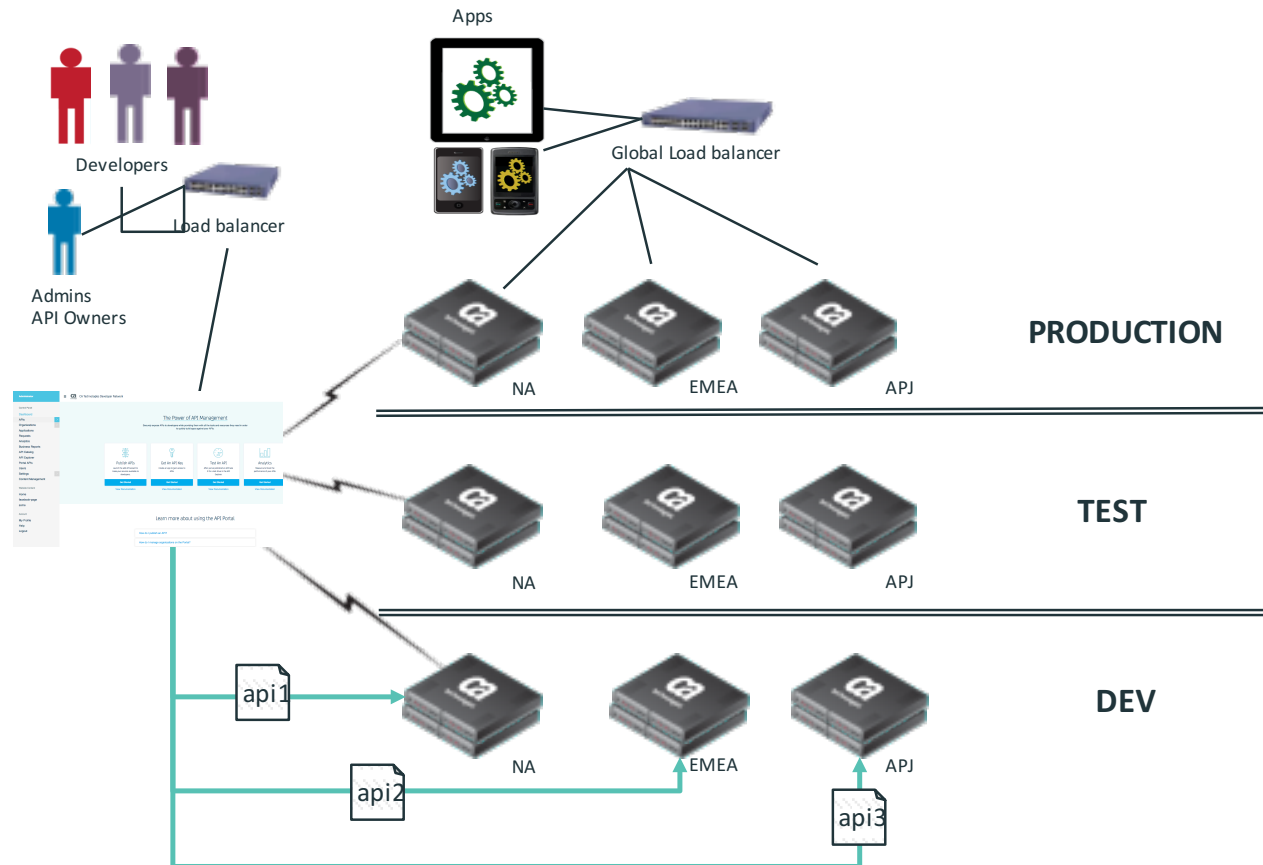


# Federated CI/CD deployments



# One Portal

## CA API Developer Portal







## Dashboards

## Viewlets

All

Private

Shared with me

Favorite

## Masthead

Create a new viewlet

Sort By: Date modified (new to old) ▾

Reload

6 Objects



Avg Latency Trend



08/28/2017 22:59:10



Avg Latency Trend



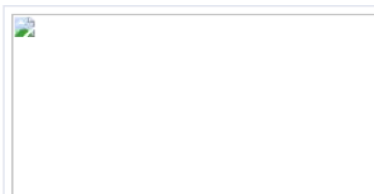
08/28/2017 22:57:07



APP Hits Trend (Split)



08/28/2017 22:53:23



APP Hits Trend (Split)



08/28/2017 22:52:48



API Hits Trend



08/28/2017 22:47:34



API Hits Trend



08/28/2017 22:45:51

## CA API Developer Portal Roadmap

Status	In-Progress	Planned (not started)	
Developer Console	<ul style="list-style-type: none"><li>• Search APIs</li><li>• Basic page branding</li></ul>	<ul style="list-style-type: none"><li>• Better CMS support (Agnostic reference implementation)</li><li>• Full Page Theming</li><li>• Custom Pages</li><li>• <b>SOAP UI support</b></li></ul>	
Admin Portal	<ul style="list-style-type: none"><li>• Federated CI/CD deployments</li><li>• Policy Manager bundle support</li><li>• API Groups</li><li>• API Rate Limit &amp; Quota templates</li><li>• Search APIs</li></ul>	<ul style="list-style-type: none"><li>• <b>Migration tools for Classic 3.5</b></li><li>• <b>API Plans</b></li><li>• <b>Fed. Deployment Metadata</b></li><li>• <b>SOAP doc Support</b></li><li>• <b>SOAP templates</b></li><li>• Custom Roles</li></ul>	
Platform	<ul style="list-style-type: none"><li>• MySQL 5.7 certification</li><li>• Docker-native deployments</li><li>• CA Jarvis analytics engine</li><li>• CA Jarvis analytics dashboard</li><li>• Extensible Authenticator</li><li>• CA SSO support</li><li>• LDAP support</li></ul>	<ul style="list-style-type: none"><li>• <b>Embedded PostgreSQL database</b></li><li>• <b>Platform Auditing</b></li><li>• <b>Platform Logging</b></li></ul>	

# CA API Developer Portal Roadmap

Status	In-Progress	Planned (not started)	
Developer Console	<ul style="list-style-type: none"> <li>Search APIs</li> <li>Basic page branding</li> </ul>	<ul style="list-style-type: none"> <li>API Docs with markdown</li> <li>Better CMS support (Agnostic reference implementation)</li> <li>Full Page Theming</li> <li>Custom Pages</li> <li>SOAP UI support</li> </ul>	<ul style="list-style-type: none"> <li><b>Enhanced search</b></li> <li>OpenAPI 3.0 support</li> <li>Localization</li> <li><b>Code samples</b></li> <li><b>SDK generation</b></li> <li>Self-service Registrations</li> </ul>
Admin Portal	<ul style="list-style-type: none"> <li>Federated CI/CD deployments</li> <li>Policy Manager bundle support</li> <li>API Groups</li> <li>API Rate Limit &amp; Quota templates</li> <li>Search APIs</li> </ul>	<ul style="list-style-type: none"> <li>Custom Roles</li> <li>API Plans</li> <li>Performance &amp; scale improvements</li> <li>Fed. Deployment Metadata</li> <li>Migration tools for Classic</li> <li>Policy Builder (Advanced)</li> <li>SOAP doc Support</li> <li>SOAP templates</li> </ul>	<ul style="list-style-type: none"> <li><b>Web hooks (Notif)</b></li> <li>Bulk API admin</li> <li><b>Collaboration tools</b></li> <li>Approval workflow</li> <li><b>Monetization</b></li> <li><b>Fed. Deployment UI</b></li> </ul>
Platform	<ul style="list-style-type: none"> <li>MySQL 5.7 certification</li> <li>Docker-native deployments</li> <li>CA Jarvis analytics engine</li> <li>CA Jarvis analytics dashboard</li> <li>Extensible Authenticator</li> <li>CA SSO support</li> <li>LDAP support</li> </ul>	<ul style="list-style-type: none"> <li>Embedded PostgreSQL database</li> <li>Custom Emails</li> <li>Platform Auditing</li> <li>Platform Logging</li> <li>Security certifications</li> <li>Custom reporting metrics</li> <li>DB certifications</li> <li>Custom host/domain</li> <li>Feature Flags (for customers)</li> </ul>	<ul style="list-style-type: none"> <li>Setting up VPNs</li> <li><b>PSD2 compliance</b></li> <li><b>AMI form factor</b></li> <li>OpenShift form factor</li> <li>Oracle support</li> <li>SOC-II compliance</li> </ul>

# Under Consideration (Future ideas)

## CA API Developer Portal

- **Complex Approvals**
- **API Versioning**
- Autonomous multi-cloud Federated Deployments driven by API SLAs, Machine Learning (ML)
- **WYSIWYG theming**
- API Mocking
- Consumer-driven Contracts
- Github Integration
- IDE integration
- Elastic auto-scale servers
- Security console
- **Multi-region Failover (SaaS)**
- Usage-based Pricing
- BlazeMeter Integration (Tests, Performance)
- Rapido Designer
- Runscope Monitoring
- Social Logins
- Deployment interfaces
- Third-party certification
- Consumer ratings
- **AI/ML driven Recommendation service**

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**Thank You.**




# Guillermo Téllez

Principal Product Manager

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 [slideshare.net/CAinc](https://slideshare.net/CAinc)

 [linked.com/company/ca-technologies](https://linked.com/company/ca-technologies)

[ca.com](https://ca.com)

## New ideas?

- Submit your ideas on [communities.ca.com](https://communities.ca.com)
- Vote & comment on ideas that are important to you
- CA Product Management reviews ideas and updates status as they move through the lifecycle
- “Currently Planned” idea status indicates inclusion in Agile Backlog or Product Roadmap

## Customer Validation

- Register to participate in:
  - Live Demos/End-of-Sprint Reviews
  - Private Members Only Online Community
  - Pre-Release Onsite Testing and Support (Beta). Please send an email to [guillermo.tellez@ca.com](mailto:guillermo.tellez@ca.com) (Product Manager)