



CA API Developer Portal

CA API Management SaaS

CA Developer Portal (Private Cloud)

Disclaimer

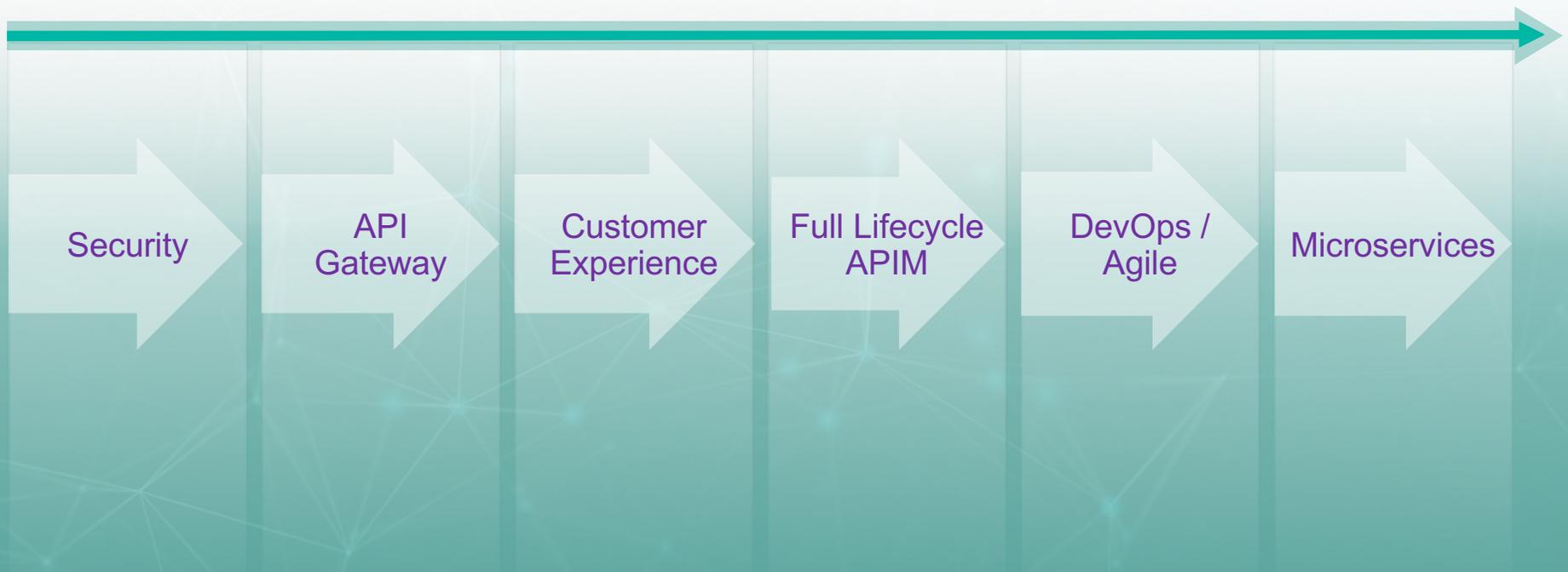
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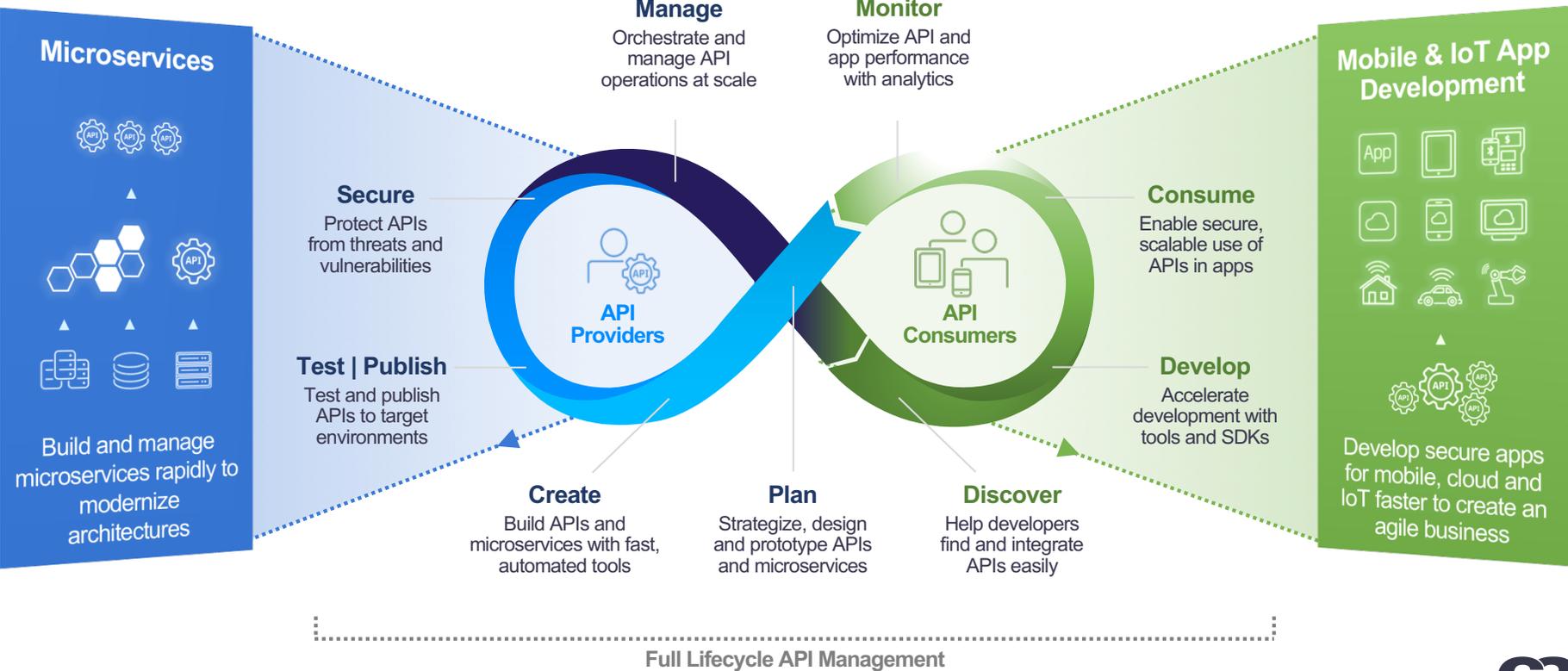
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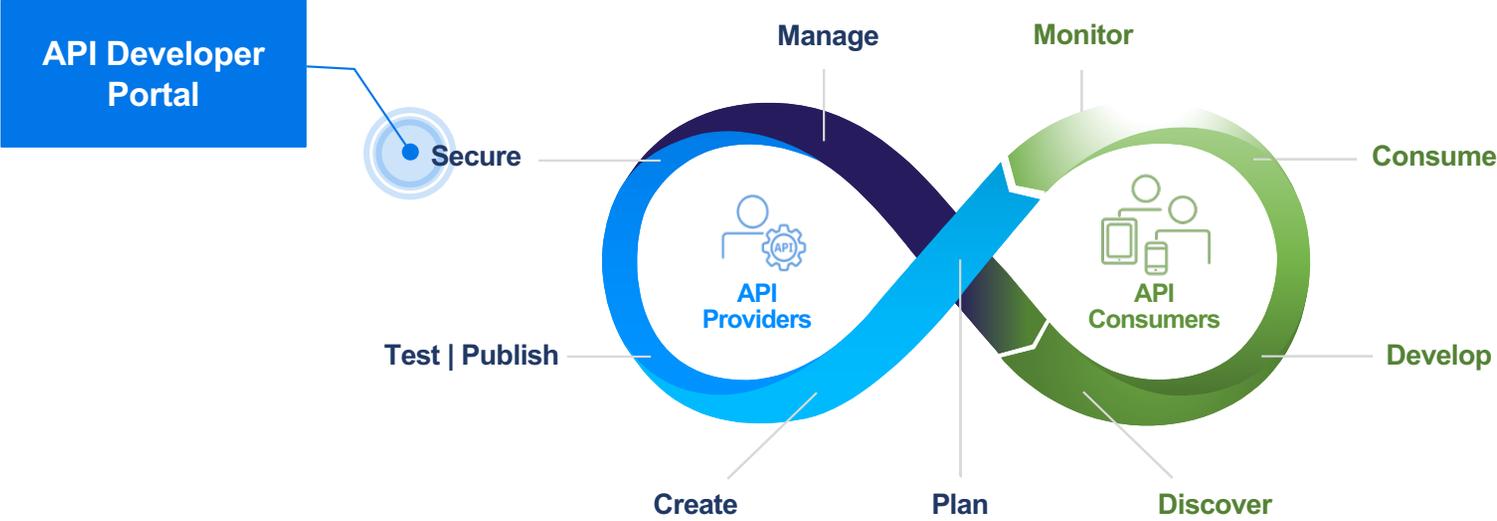




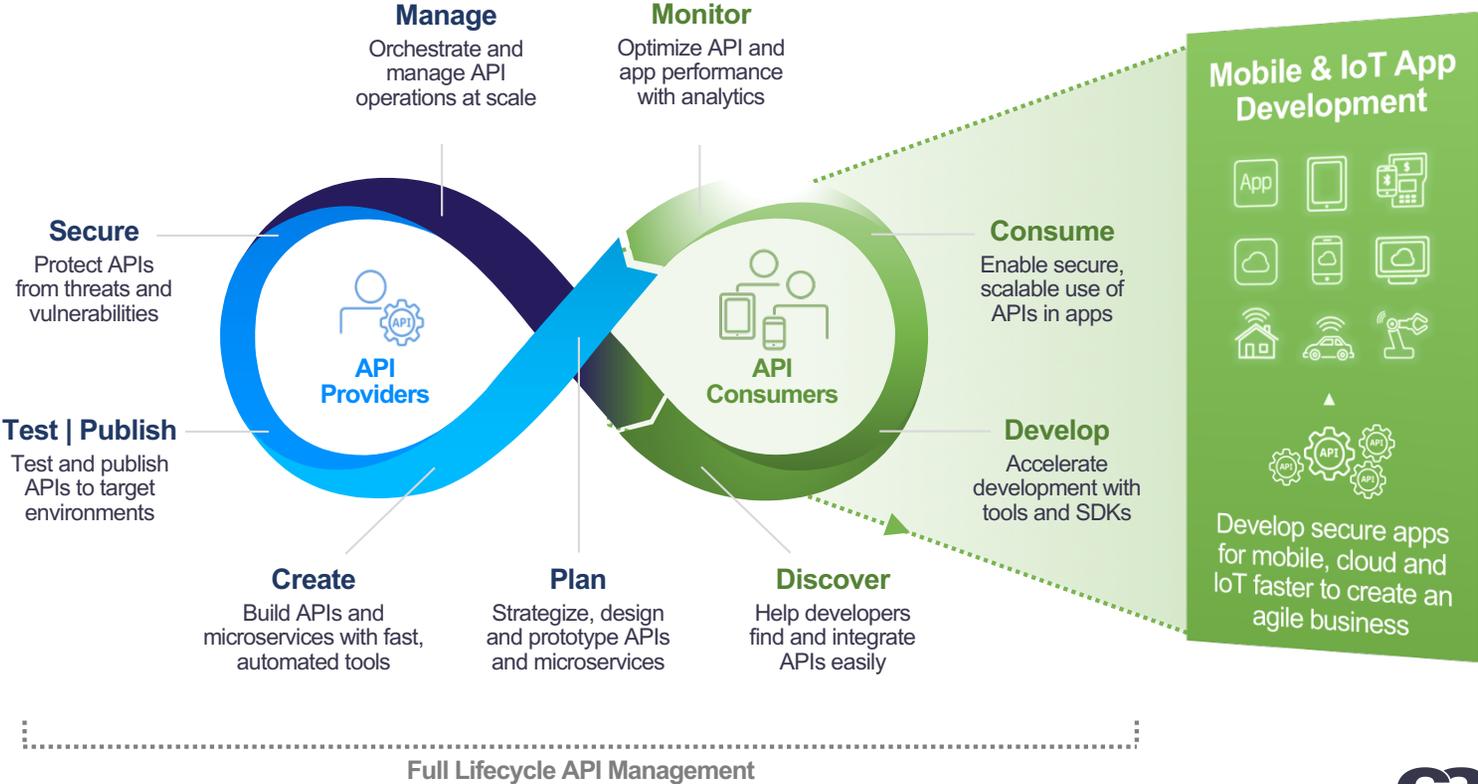
The Modern Application Architecture Model



Latest Innovations in CA API Management



New Developer experience



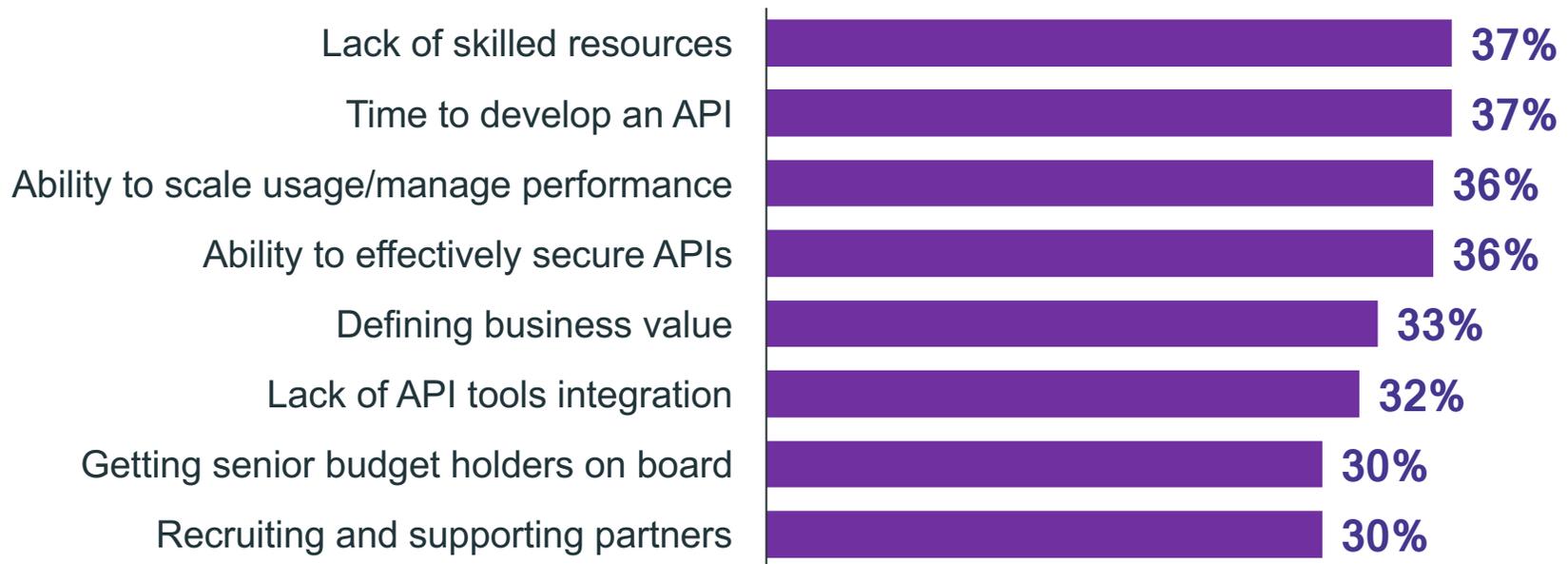


Why do we need a API Developer Portal?



Core Obstacles to Fully Leveraging APIs

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



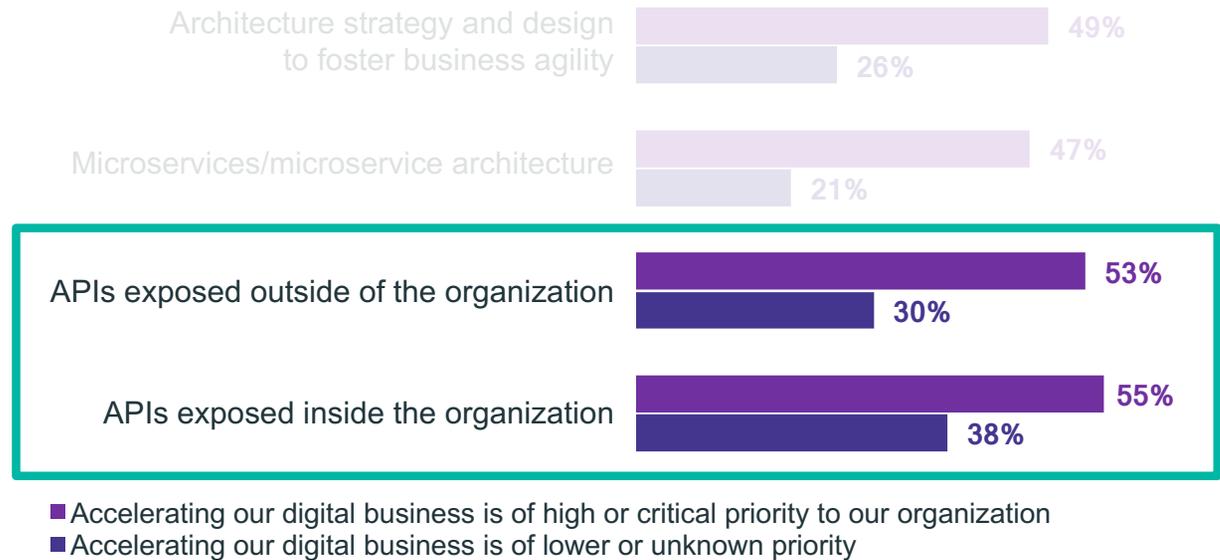
Coleman Parkes Research, "Business Impact of APIs", January 2017
Base: 1,770 ITDMs that use APIs: Full Lifecycle users (264) Basic users (191)



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

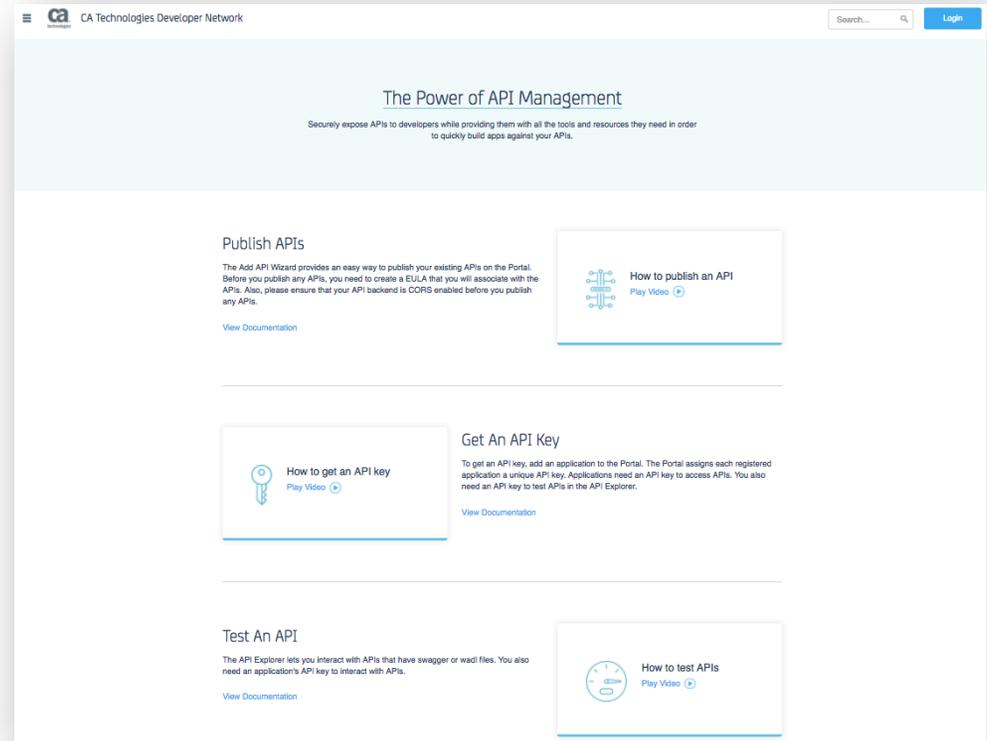
Personas

- CIO/CTO looking to create a strategic advantage
- Business Unit Manger 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

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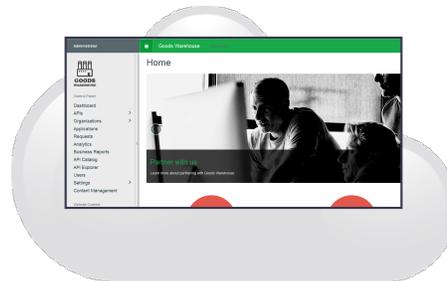


API Developer Portal

Options



SaaS



Hybrid

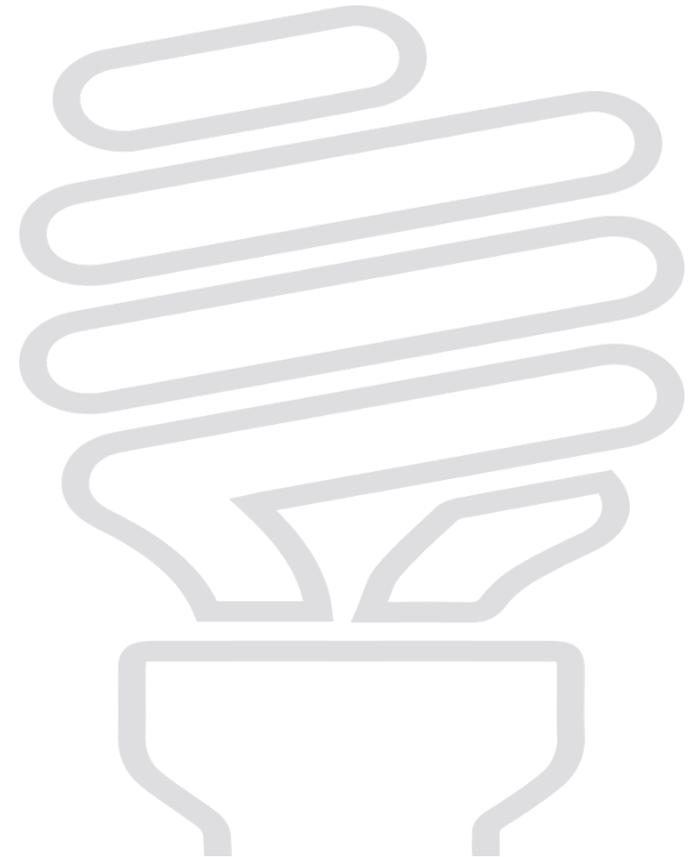


Private Cloud





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

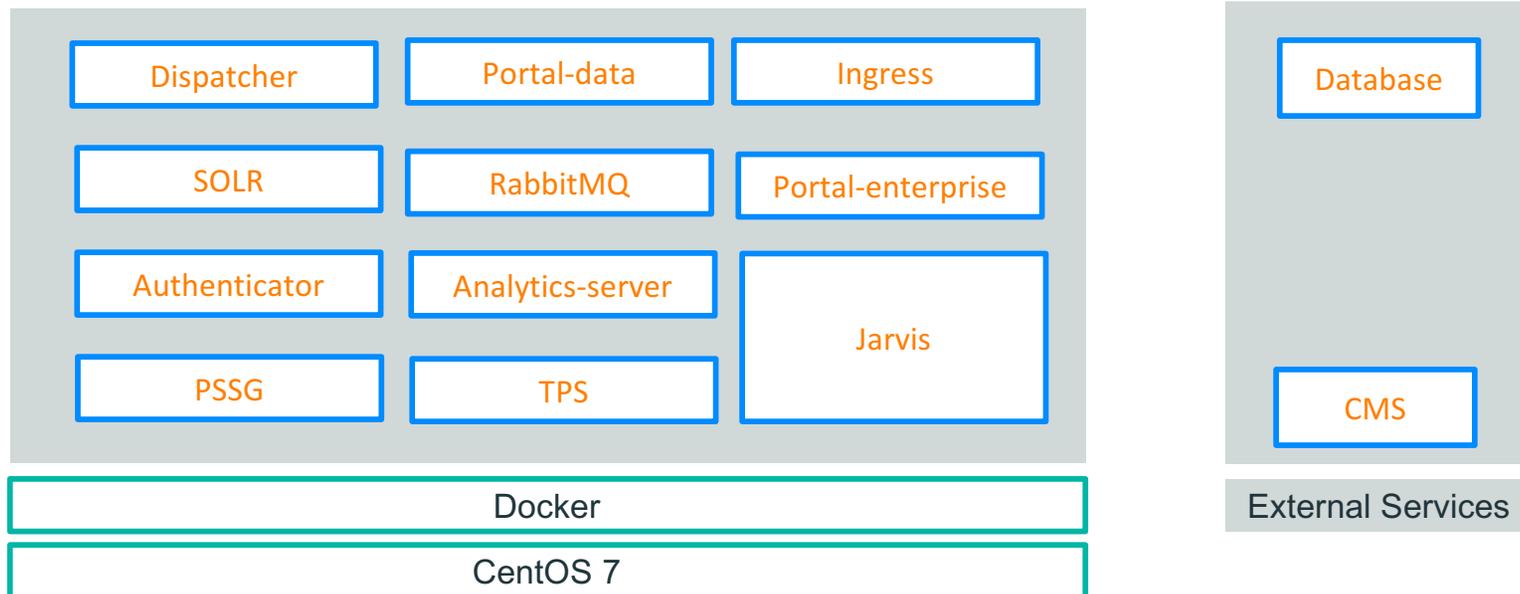
- Services are containerized
- 12 factored
- Immutable once created

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

The screenshot displays the CA API Developer Portal interface. At the top left, there is a hamburger menu icon, the CA Technologies logo, and the text "LSJ Developer Portal". On the top right, there is a search bar with the text "Search...", a magnifying glass icon, and a user profile dropdown menu for "Leila Saheb". The dropdown menu is open, showing a search bar, the heading "ORGANIZATIONS", and three options: "HR" (with a green checkmark), "Marketing", and "Logout".

The main content area features a large heading "The Power of API Management" with a subtitle "Securely expose APIs to developers while providing them with all the tools and resources they need in order to quickly build apps against your APIs." Below this, there are three main action cards:

- Discover APIs**: Find APIs that are appropriate for apps you are building. [Get Started](#)
- Get An API Key**: Create & edit apps to gain access to APIs. [Get Started](#)
- Test An API**: After you've discovered an API take it for a test drive in the API Explorer. [Get Started](#)

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Extend roles

CA API Developer Portal

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/oa

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"
        }
      ]
    }
  ]
}
```

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">• Search APIs• Basic page branding		
Admin Portal	<ul style="list-style-type: none">• Federated CI/CD deployments• API Groups• API Rate Limit & Quota templates• Search APIs		
Platform	<ul style="list-style-type: none">• MySQL 5.7 certification• Docker-native deployments• CA Jarvis analytics engine• CA Jarvis analytics dashboard• Extensible Authenticator• CA SSO support• LDAP support		

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-ssg.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

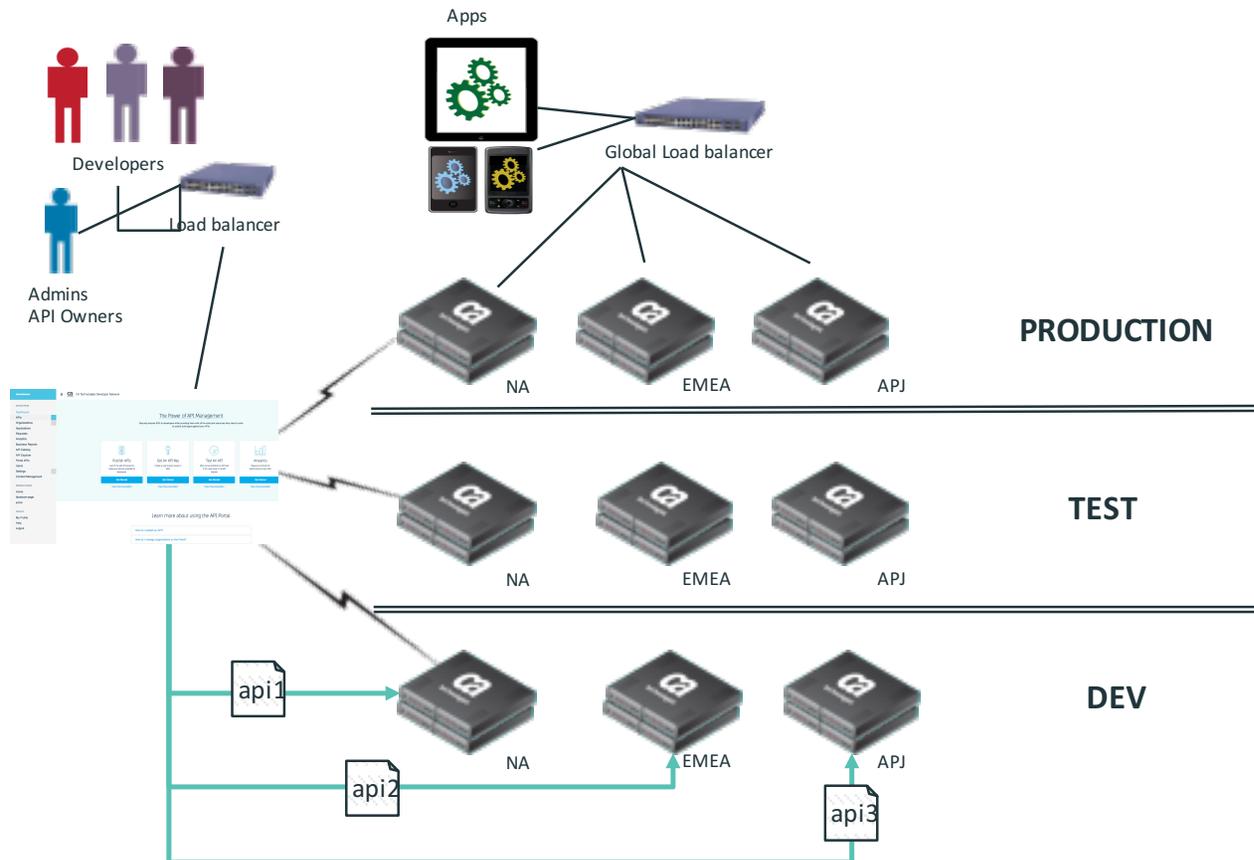


Federated CI/CD deployments



One Portal

CA API Developer Portal





Dashboards

Viewlets

All

Private

Shared with me

Favorite

Masthead

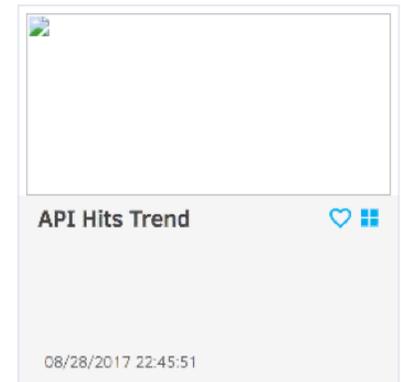
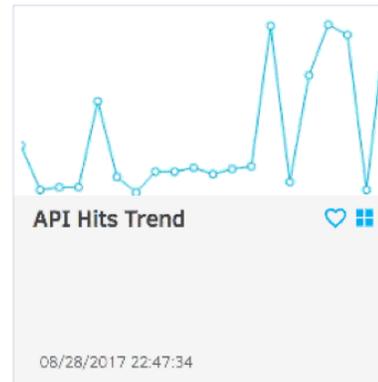
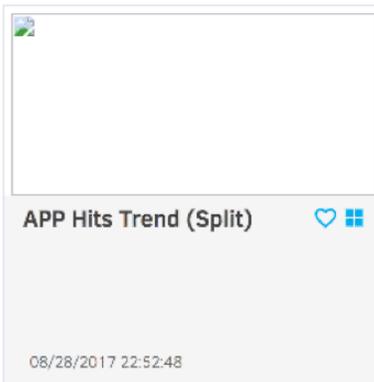
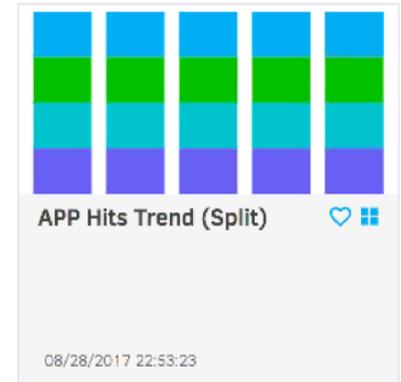
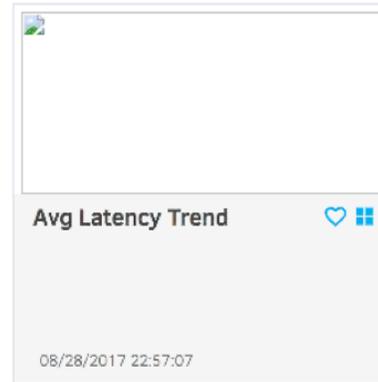
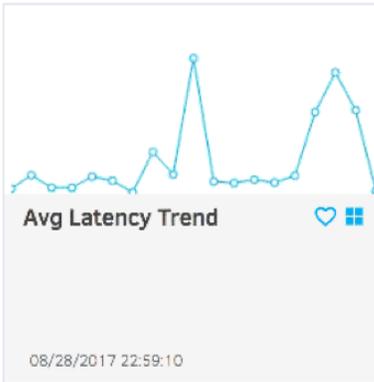
Create a new viewlet



Sort By: Date modified (new to old)

Reload

6 Objects



CA API Developer Portal Roadmap

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

CA API Developer Portal Roadmap

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

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.



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ca.com

New ideas?

- Submit your ideas on 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 (Product Manager)