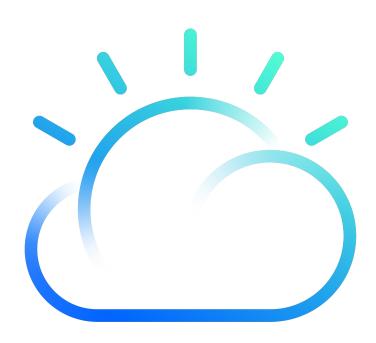
API Connect & Gateways 101

Product Overview



Please note

IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice and at IBM's sole discretion.

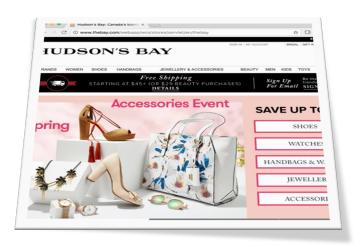
Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision.

The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code or functionality. Information about potential future products may not be incorporated into any contract.

The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.

Web, Mobile & APIs – What Do They have In Common?

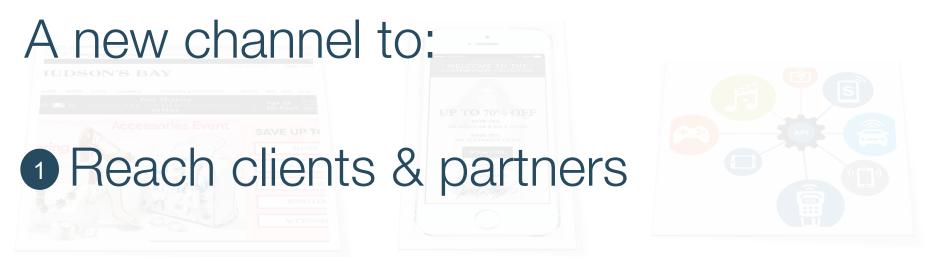






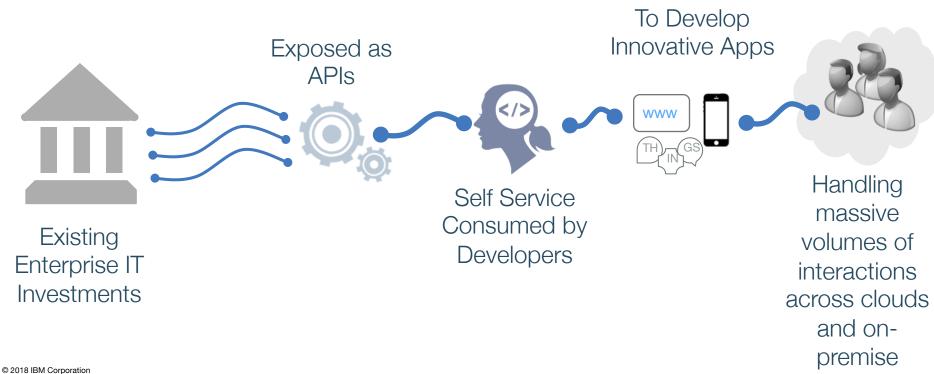
Late 1990s 2000s 2015+

Web, Mobile & APIs Offer Organizations...

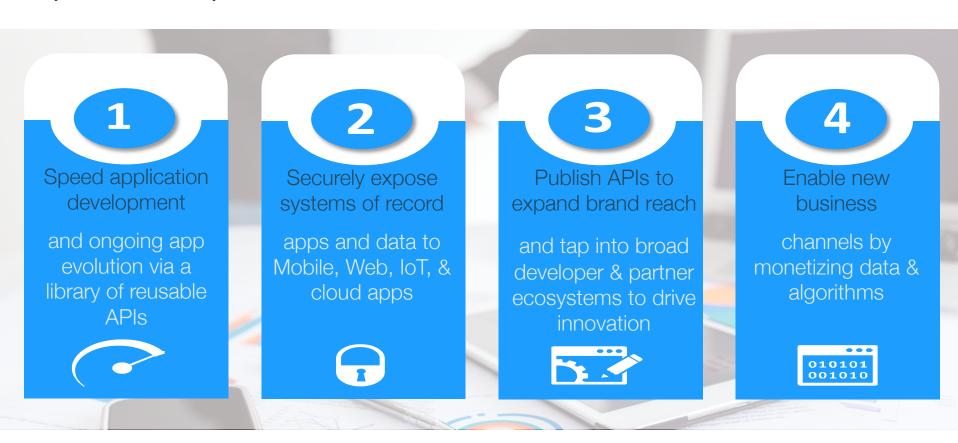


2 Enable new businesses models

Maturity in the API space means growth to massive scale



Key API Industry Usecase



Disruption across Industries – Fueled by APIs

| Industries | | |
|------------|--|--|
| | | |
| FinTech | Fintech Firm started innovating by offering hackathons and currently delivers over 300 business services | |
| | internally and externally across most core lines of business. | |
| HealthCare | HealthCare provider offers personalized healthcare by exposing APIs via secure platform called InterChange | |
| | | |
| Automobile | Car company offers connected car, improves driving experience, sells vehicle data to partners | |
| | | |
| Retail | Retailer provides digital distribution channel for affiliate revenue from customer referrals via open API portal | |

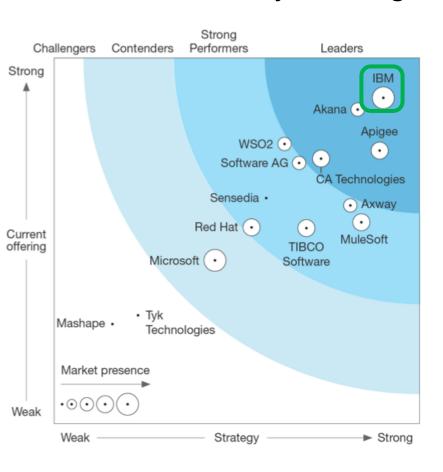
Overview

#1 Market Leader





IBM API & Gateway Offering: Ranked #1



View analyst reports from Forrester, IDC & Gartner:

developer.ibm.com/apiconnect/

What is IBM API Connect?



The Scalable Multi-Cloud API Platform

A complete, modern and intuitive API lifecycle platform to create, securely expose and manage APIs across clouds to power digital applications



Create

Automatically create and test APIs to expose data, microservices, enterprise applications and SaaS services.



Secure

Easily apply built-in and extensible policies to secure, control and mediate the delivery of APIs with unmatched scale.

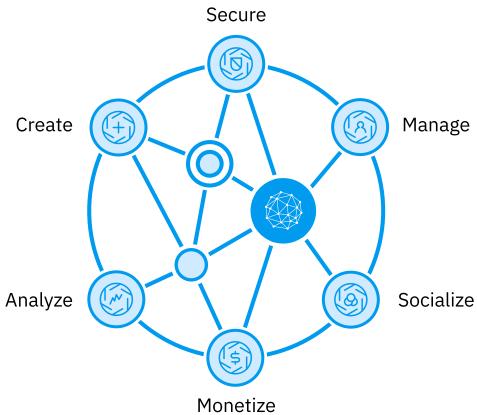


Manage

Rapidly publish, lifecycle govern, socialize, analyze, monitor and monetize APIs with built-in capabilities.

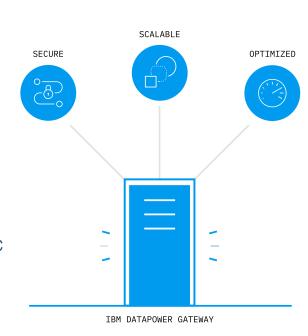
API Connect Key Capabilities

IBM API Connect



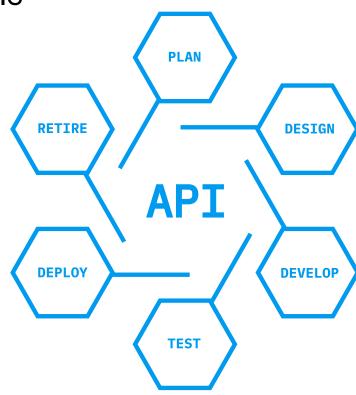
Enterprise Security and Control with Industry leading API Gateway

- Secure to the core with signed, encrypted gateway image without external software dependencies to minimize risk
- Proven API security policies at runtime to quickly protect services and data across multi-clouds
- Performant & scalable architecture to help meet SLAs and improve client user experience
- Optimized drag & drop built-in policies for security, traffic management & mediation to accelerate time to value
- Flexible and extensible to align with enterprise requirements and the need for custom policies
- Workload tenant isolation to optimize TCO and governance on a single appliance across multiple LOBs



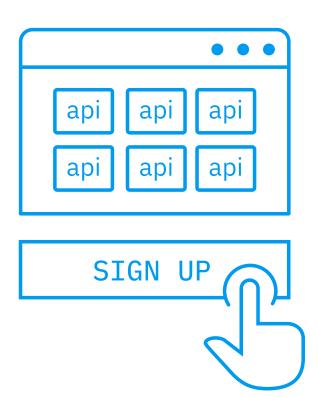
Manage APIs through the API Lifecycle

- Define & Import REST or SOAP APIs to enable clients to evolve their SOA tier
- Package APIs into Products and tailor them to target specific consumer markets
- Publish and Promote across different environments to align with DevOps practices
- Manage and Control API Lifecycle and versioning from staging to deprecation to meet corporate governance needs
- Subscription and Community
 management to grow go-to-market channels



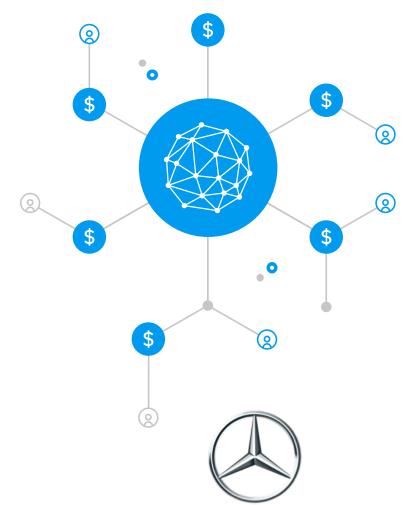
Socialize and Engage with API Consumers to drive adoption

- Self-service, branded Portal across multiple API provider lines of businesses within an organization to socialize APIs
- Engage with API consumers via community building features: blogs, forums, ratings etc.
- Governance & autonomy to each provider organization to manage their APIs, products, plans and multiple gateway endpoints independently within their 'Space'



Monetize your API Calls

- Modern approach & intuitive user experience providing flexibility to define pricing details
- Subscription pricing support to enable recurring payments, popular in SaaS go-to-market strategies
- Stripe integration OOTB for smooth useronboarding and payment collection
- Analytics, customizable reports for detailed insights into revenue, usage of monetized APIs
- Offload API usage data to existing enterprise tools to handle customized invoicing processes



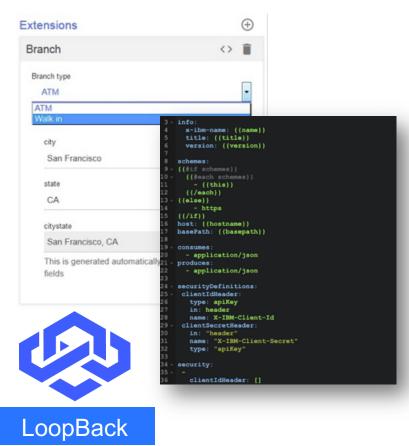
Gain Insights in to your API Business

- Analyze API calls to get visibility and understand API consumption
 - Who & What is Driving my API Business?
 - Is my Product's packaging targeted? Or my plans appropriate?
 - What are the response times of my APIs?
- Drill down and build custom queries for deeper analysis
- Build custom dashboards and share to address specific reporting and visualization needs
- Offload usage data to external systems like Splunk SAP etc.



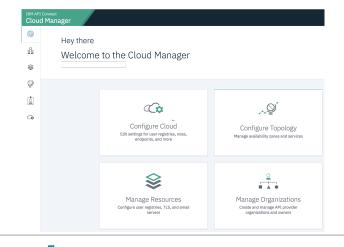
Accelerate API Developer Productivity

- Enforce corporate standards through templates for API and API Product definitions
- Simplify API categorization & search through customer defined metadata
- Control API Gateway behavior based on the additional metadata
- Integrated Loopback vNext Experience for Interaction tier
- Integrated with API Connect Toolkit for simpler user experience to create APIs



API Connect V2018.x: Scale & Flexibility with Multi-Cloud Design

- Multi-cloud API Connect managing distributed clustered API Gateways co-located with provider backends on virtually any cloud
- Container/Kubernetes & VMware support for API Connect components to run virtually anywhere
- Unmatched scalability and performance through new container and microservices based design
- Independently scale API Connect components leveraging container orchestration tools

















- Alibaba Cloud







API Connect: Flexible licensing and deployment



Deployment

Deploy where it's most convenient for you

- Deploy on IBM Cloud
- Deploy to 3rd party clouds
- Deploy on-premises



Licensing

Pay only for what you need

- Subscription (API calls/month)
- Perpetual (per PVU, unlimited API calls)



IBM API Connect

| Number of APIs & API Products | Unlimited |
|--------------------------------------|-----------|
| Number of API Application Developers | Unlimited |
| Cloud infrastructure on IBM Cloud | Included |
| Data transfer on IBM Cloud | Included |

SaaS: API Connect Reserved Instance

The Opportunity

- Digital Transformations powered by API Economy projects
- Securely exposing systems of records on any cloud (AWS, Azure, IBM, ICp, on-prem, etc)
- Existing DataPower clients who have not yet purchased API Connect (i.e. ~1500 client WW)

Value Proposition

- Scale: Meet unexpected API traffic needs in seconds vs. months on-prem via internal IT teams
- TCO: Offload management of API platform to IBM experts
- Performance: Co-locate enterprise grade API Gateway with backends being exposed as APIs for lower latency and higher performance with included API Gateway licenses

Contact

George Nealon, WW Sales, API Connect

API Connect Offerings

| API Connect Essentials (aka Lite) | API Connect Enterprise |
|--------------------------------------|---|
| For Developers | For Departments & Cross Enterprise |
| No charge, with Forum support | Paid, with IBM support |
| 50K API calls/mo | - PayGo: 100K API calls/mo & above - Subscription: 5 Million API calls/mo & above - Maximum flexibility with yearly call volume measurement (e.g. API calls / Yr) |



- IBM Support
- Additional API calls
- HA requirements
- Advanced API Gateway Policies

Strategic Priorities 2018 And Beyond





Testing, monitoring, plugability into third-party systems, advanced monetization



Intelligent Security

Advanced API threat protection, access control and prevention e.g. Bot detection, DDoS API attacks



Beyond Synchronous APIs

Event driven IT to enable new business applications via WebSockets, MQTT, AMQP, Webhooks



Al-Driven Insights

API smarts embedded throughout the API lifecycle

Resources:

• <u>ibm.com/cloud/api-connect</u>

• <u>developer.ibm.com/apiconnect</u>

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