

Introduction to API Management

Conceptual Level Briefing

YYYY-MM-DD

Agenda

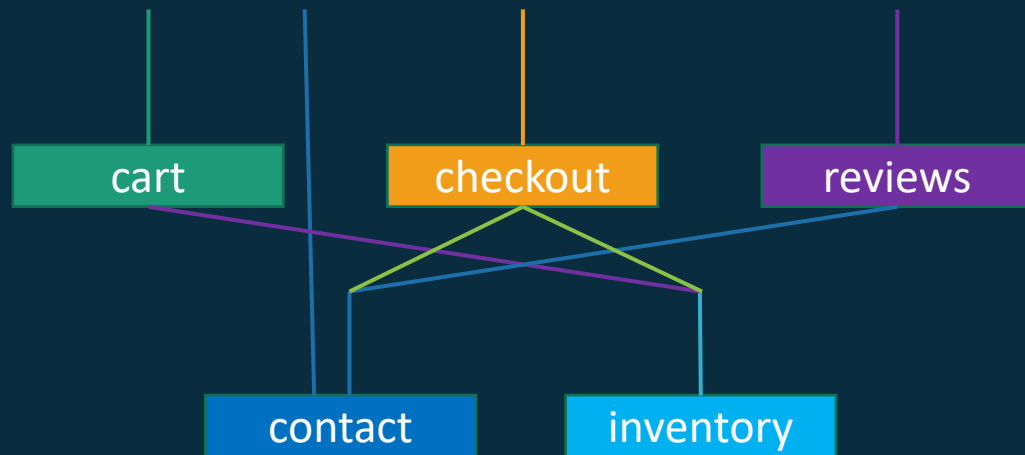
- What is API Management?
- Benefits and use cases
- Platforms and tools
- Architectural patterns and strategies

What is API management?

API Management is about driving the consumption of business assets securely and easily

*API management refers to the process of **creating, publishing, and managing** API connections within an enterprise and multicloud setting. More than just a place for these API connections to live, API management offers a scalable, unified platform that allows enterprises to share and socialize their API configurations while controlling access, collecting and analyzing usage statistics, and enforcing associated security policies.*

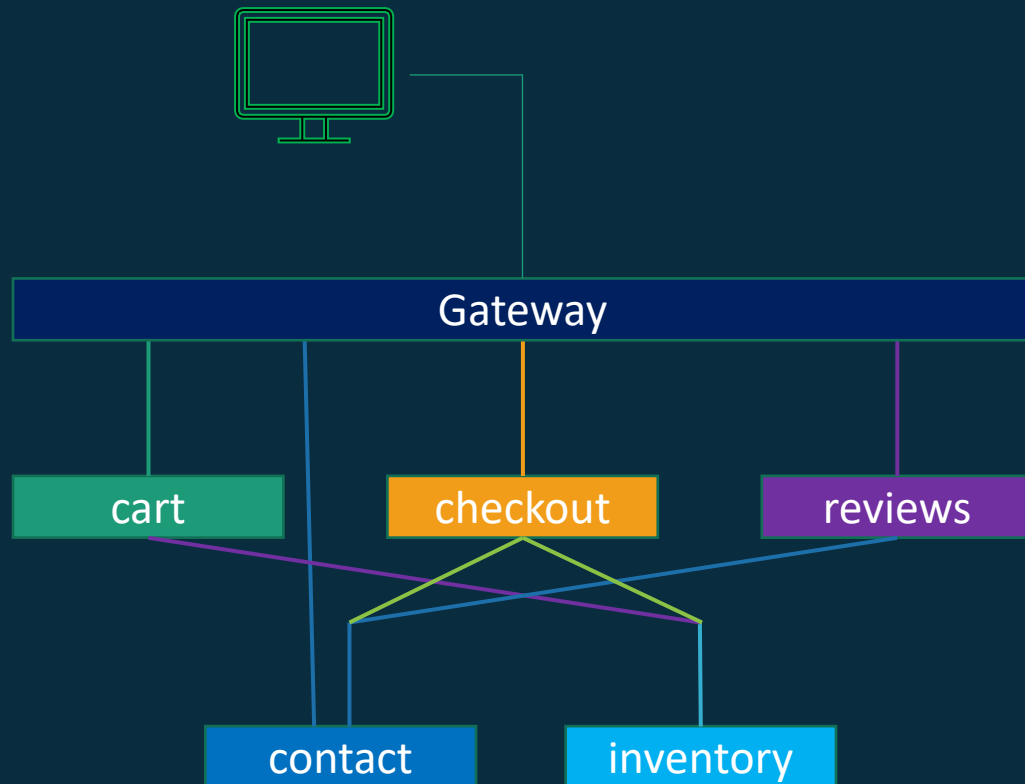
Retail App Example



Frontend Microservices

Backend Microservices

Retail App Example



Developer Portal

Self-service hub to:

discover APIs

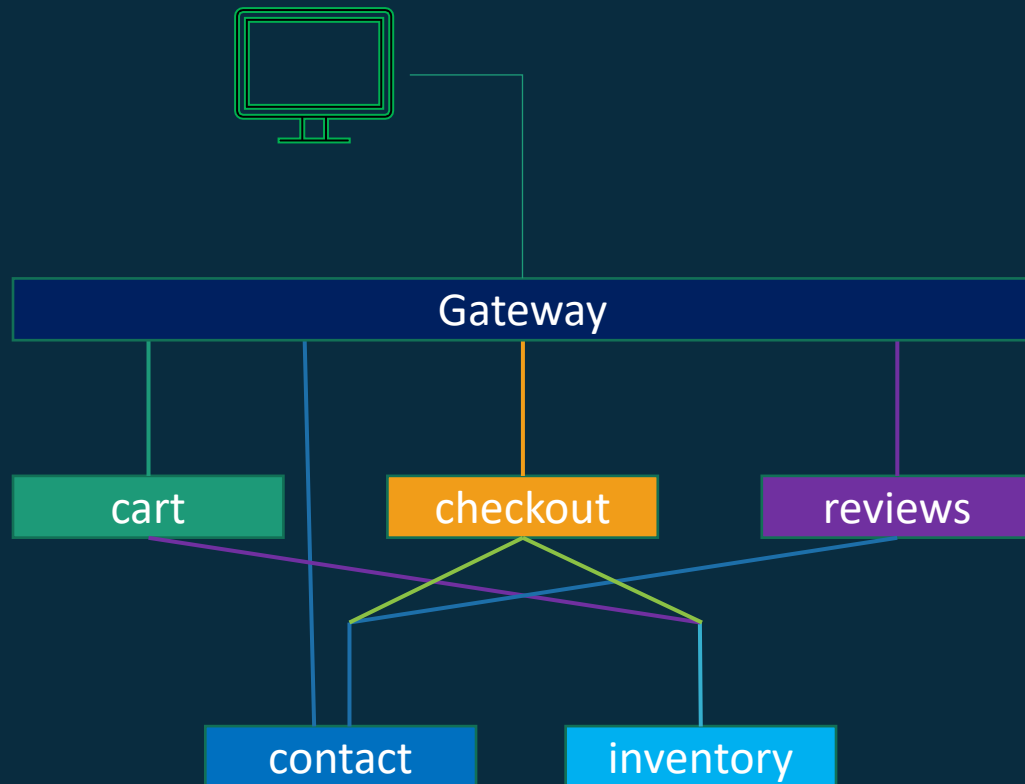
Browse, access and share API documentation

learn how to use them

test them out with interactive console

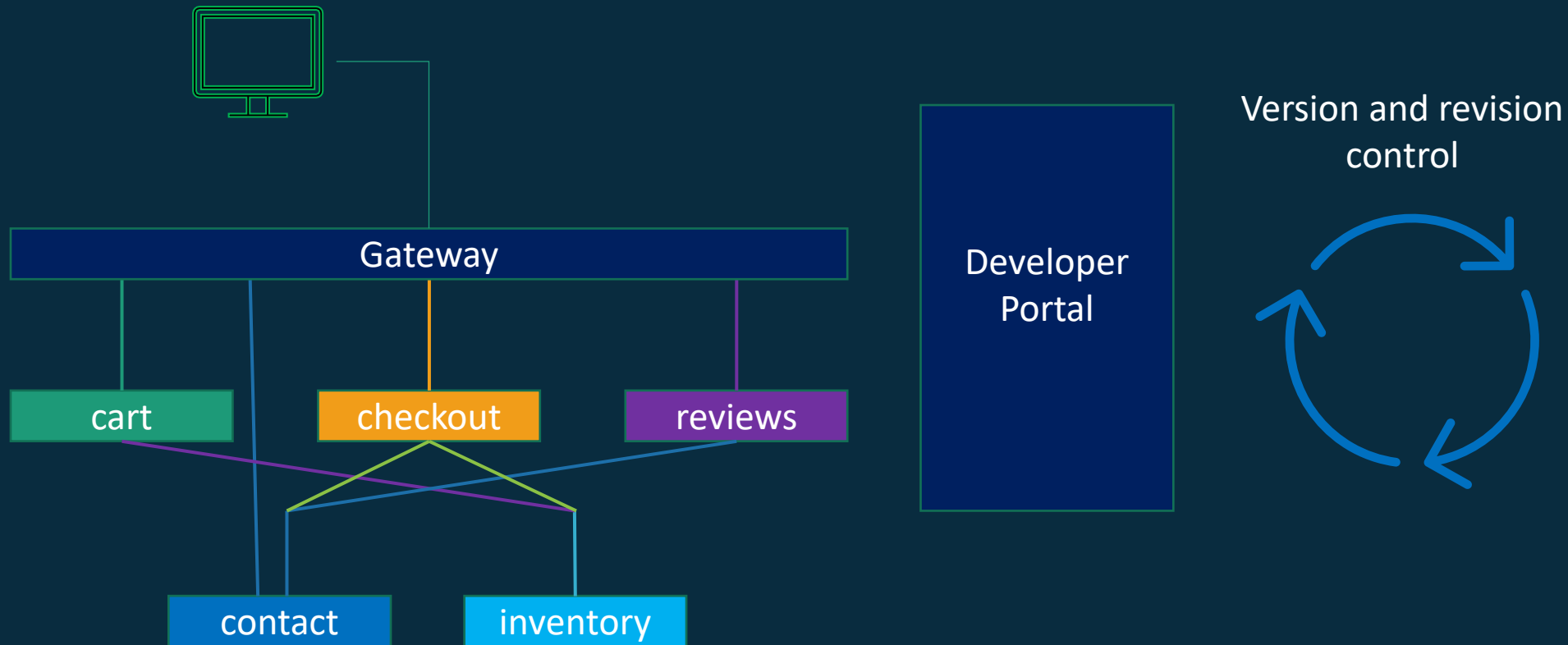
create and manage accounts

request and manage API access

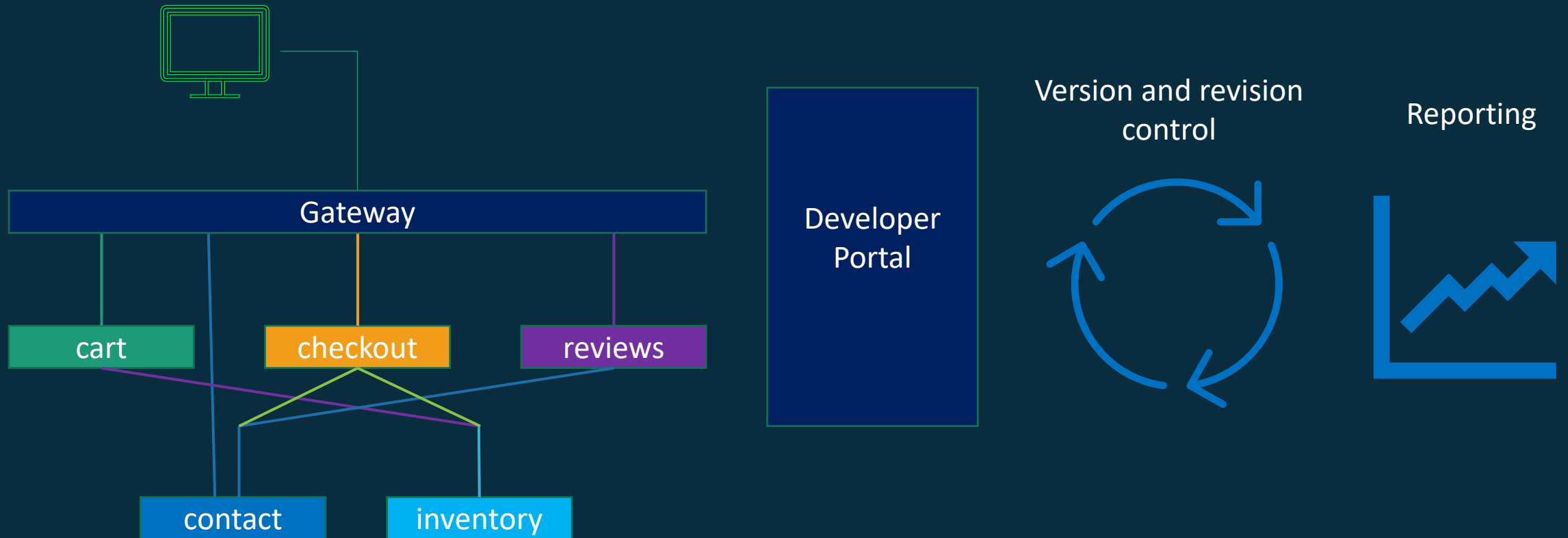


Developer Portal

Management including Lifecycle

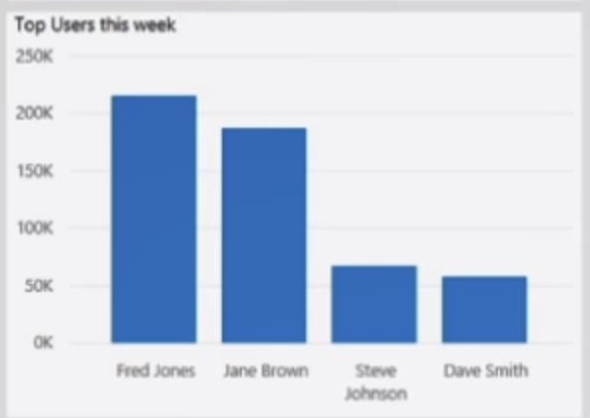
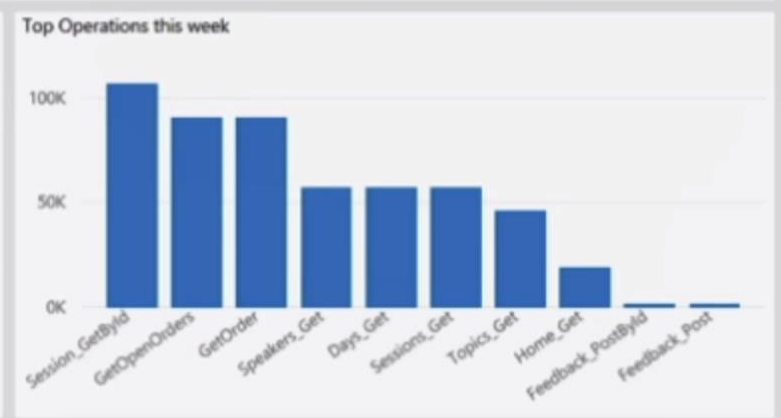
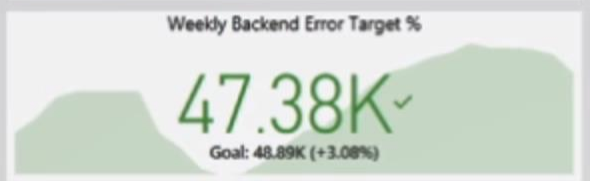
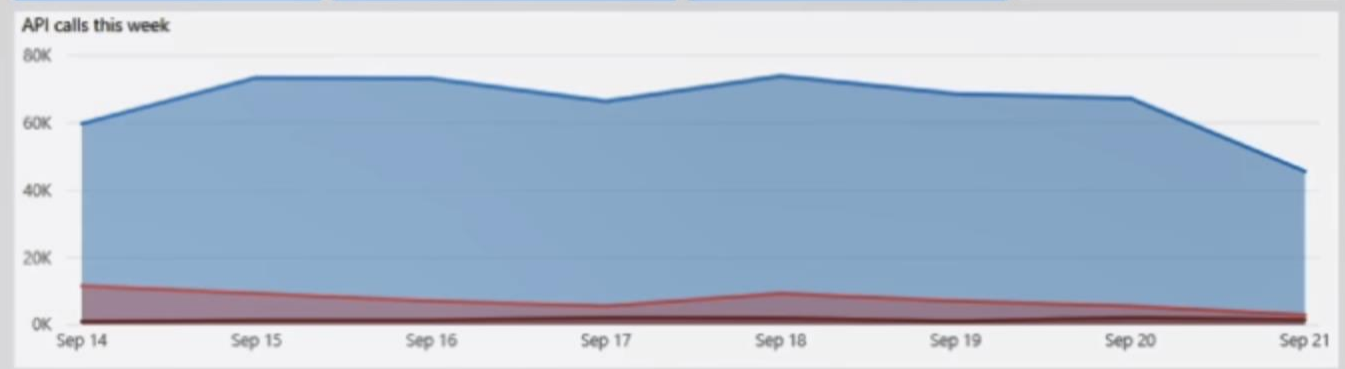


Reporting and Analytics

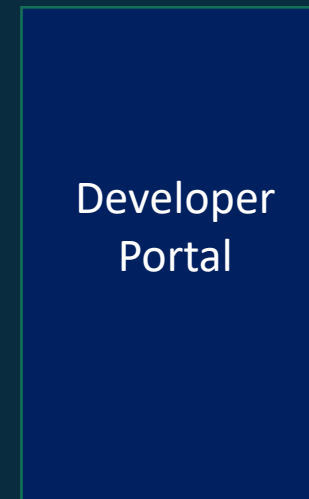
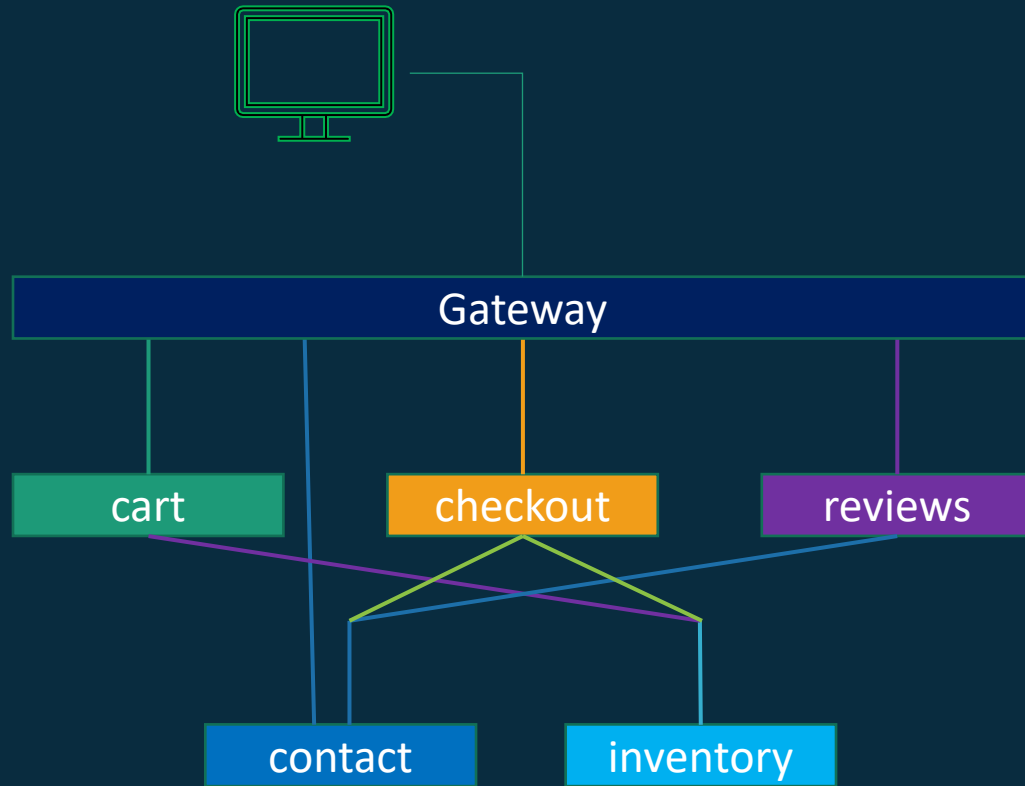


Microsoft Azure

Azure API Management



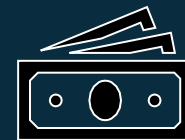
Real life scenarios



Version and revision control



Reporting



Monetize



Formalize



Centralize security

Other use cases

- API management platforms benefit organizations in a number of ways. Here are a few everyday use cases when implementing an API management solution:
 - Supporting digital transformation strategies
 - GDPR and compliance considerations
 - Ensuring data security

API management platform vendors

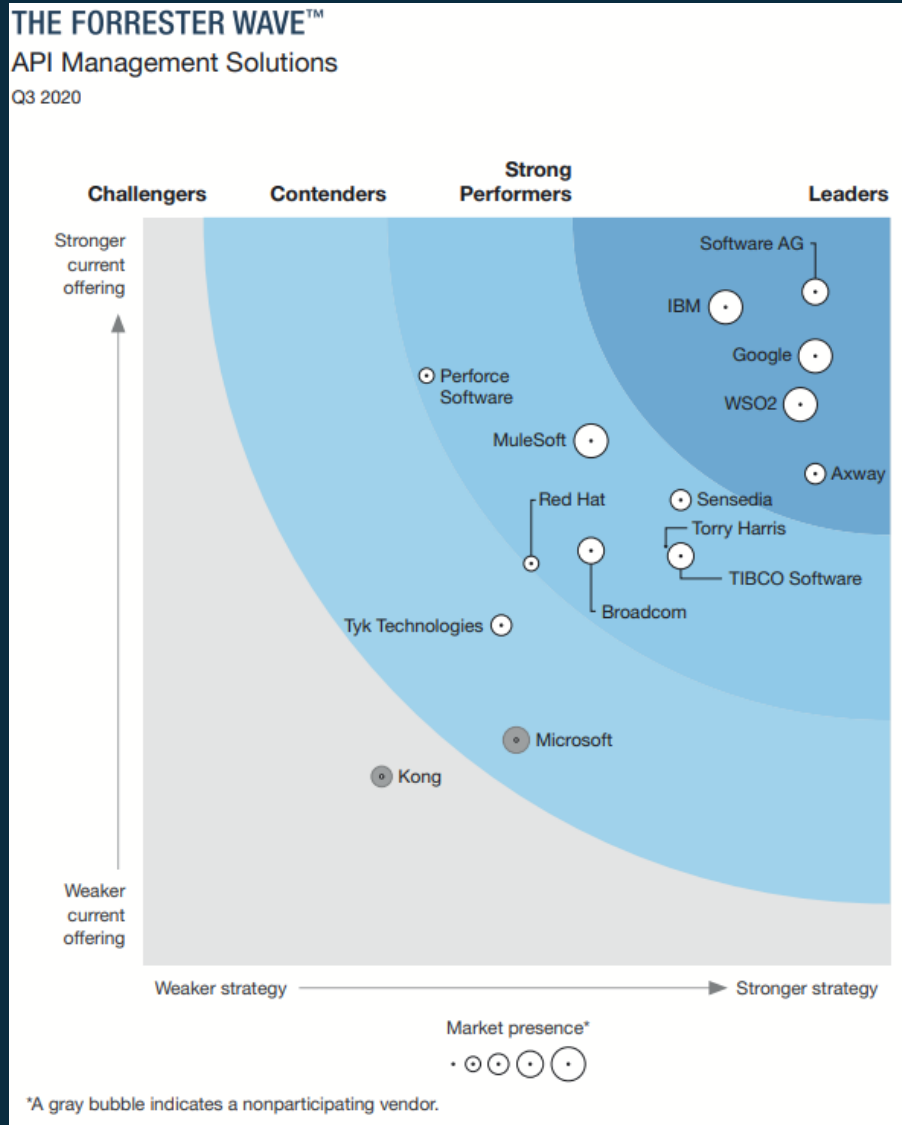


Figure 1. Magic Quadrant for Full Life Cycle API Management



Source: Gartner (September 2020)



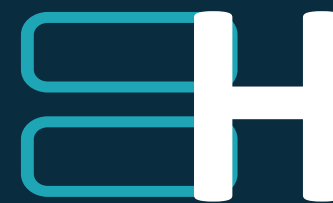
Microservices



API-first

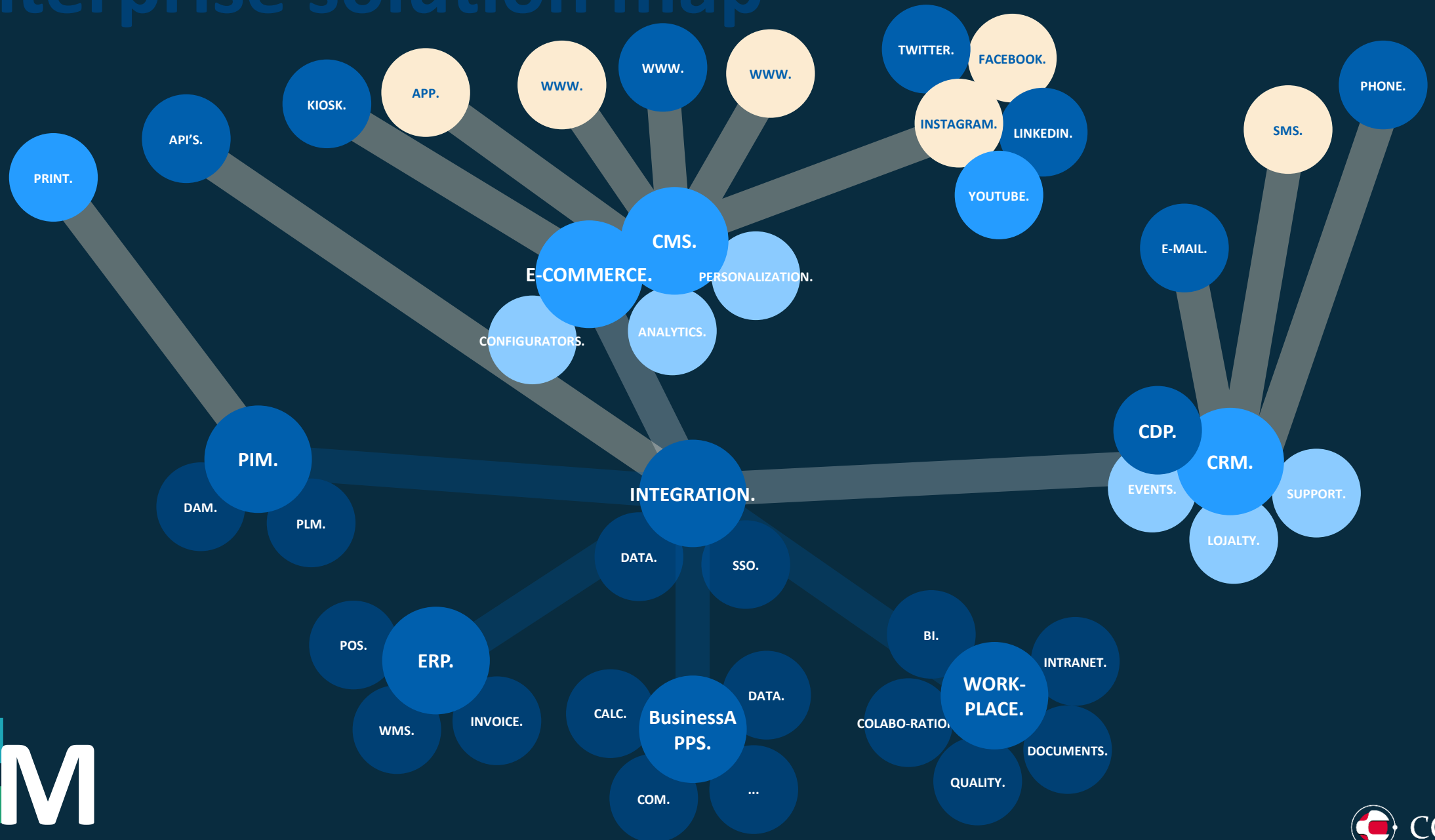


Cloud-Native

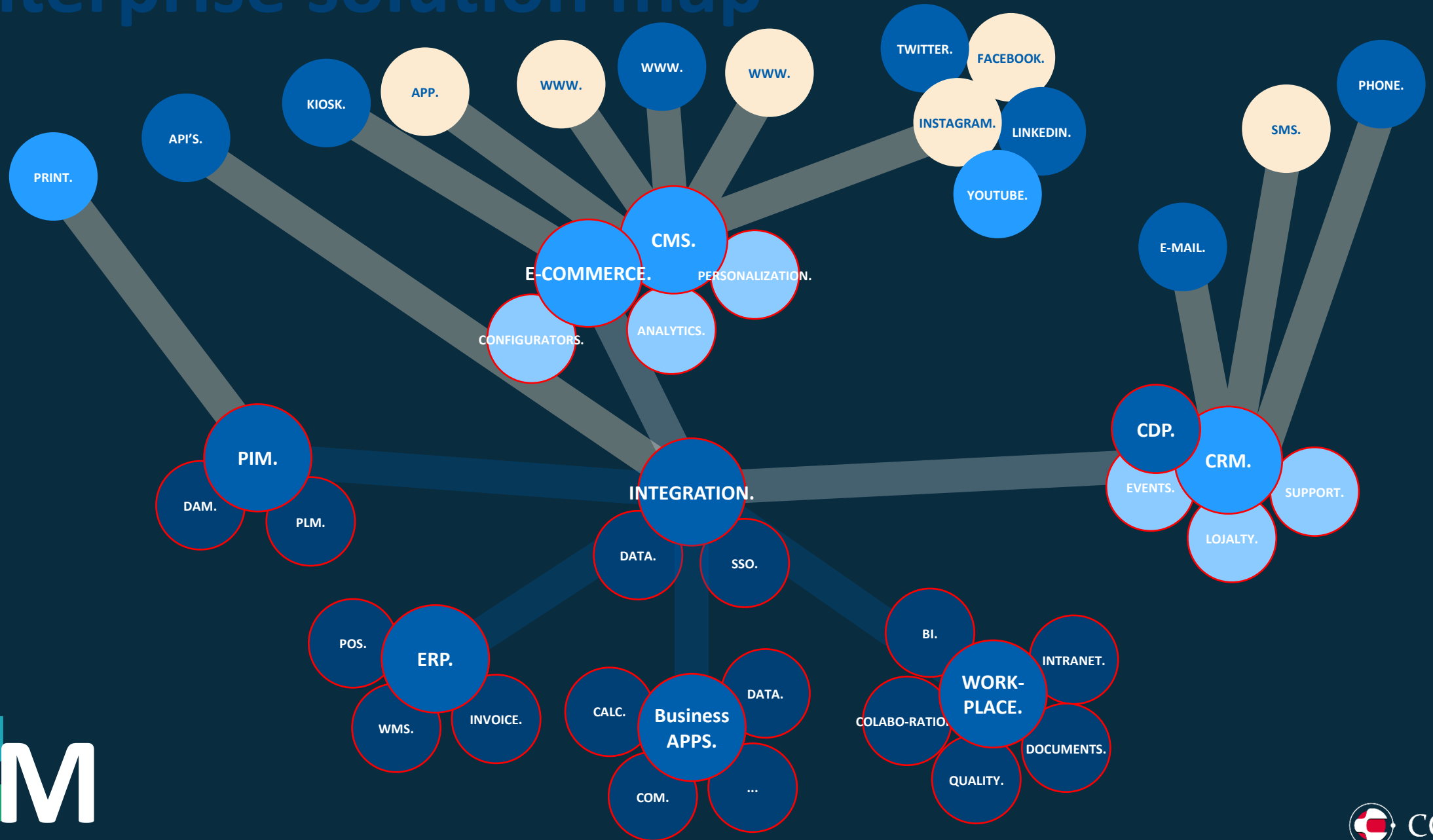


Headless

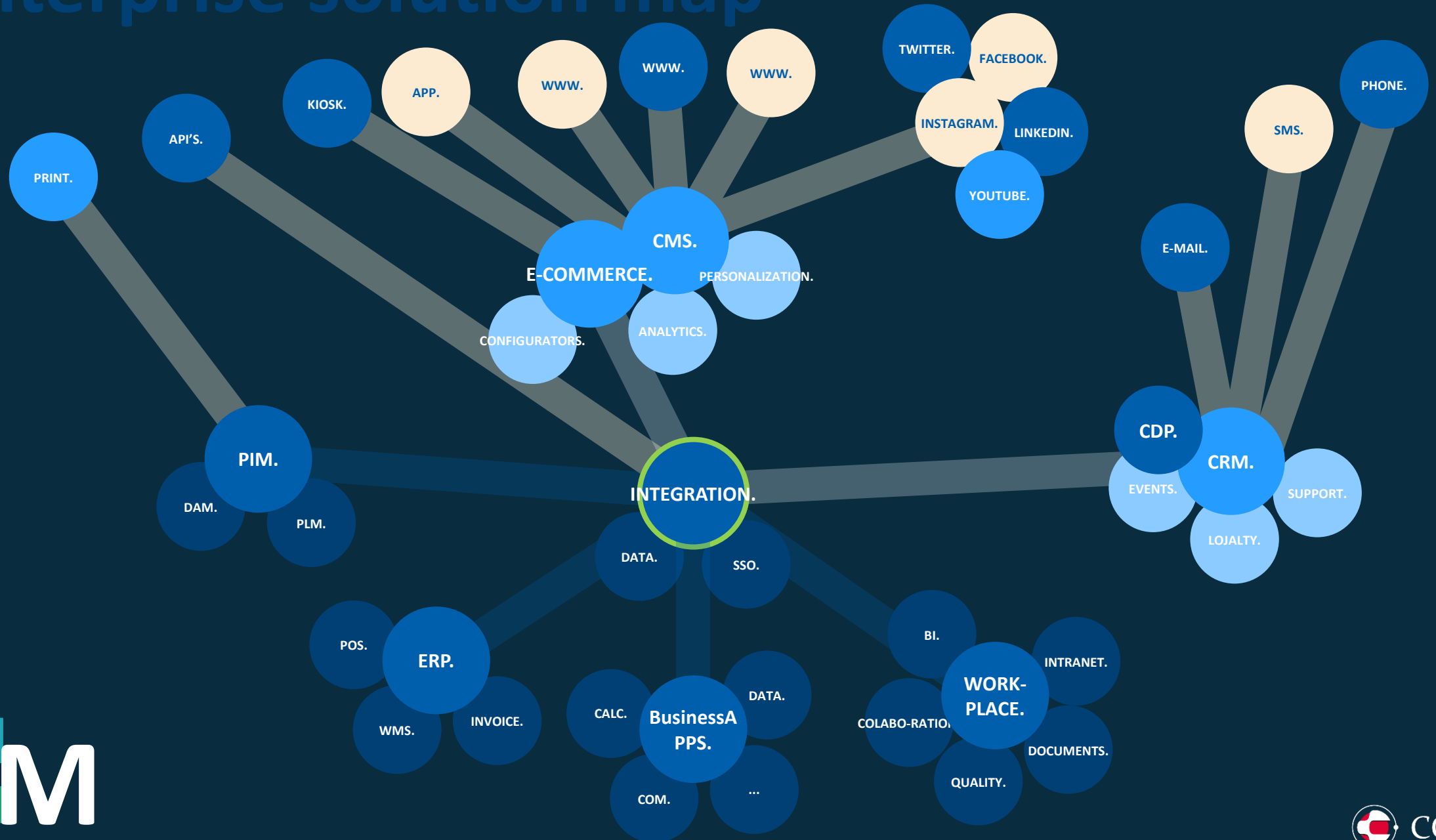
Enterprise solution map



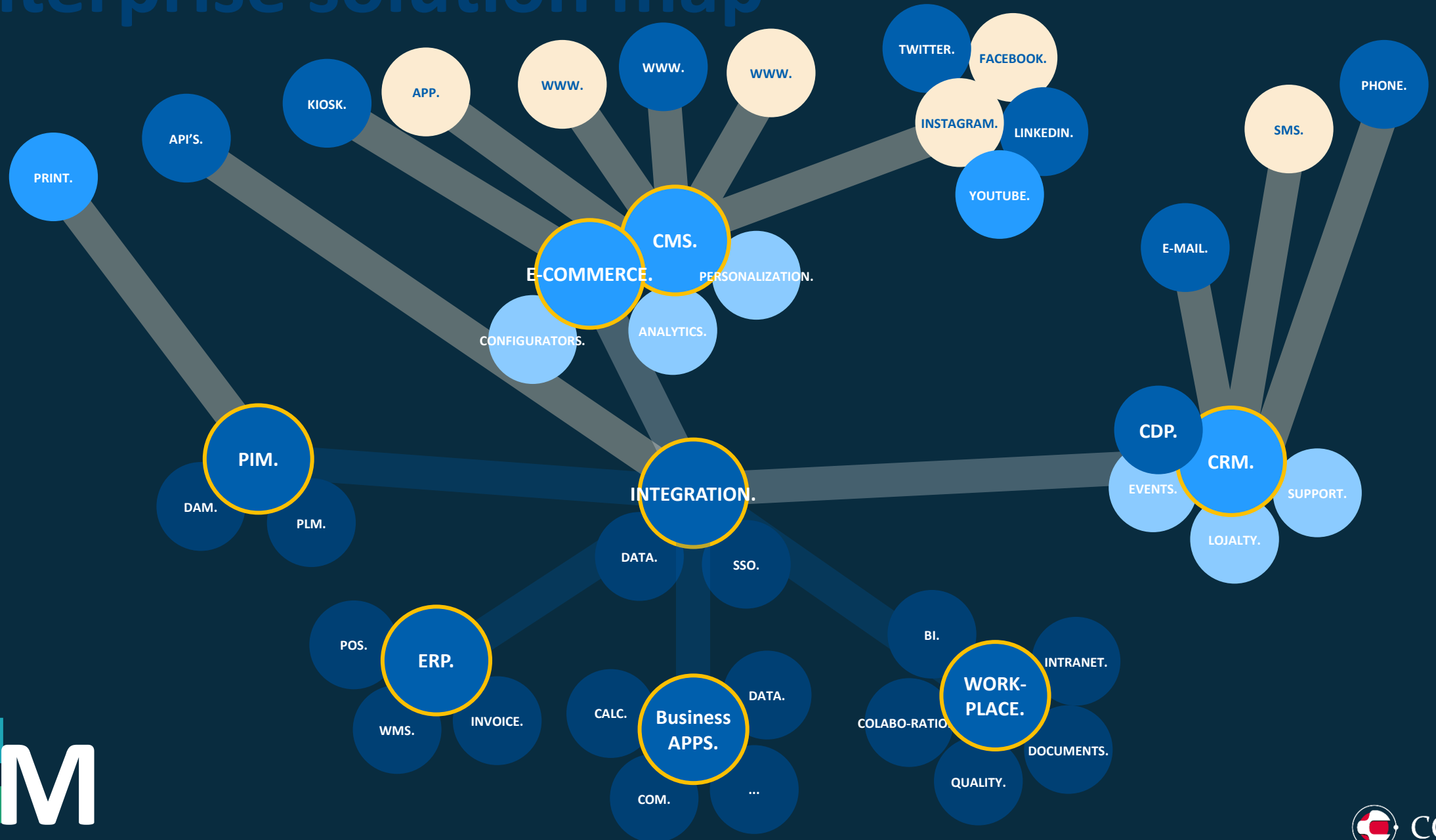
Enterprise solution map



Enterprise solution map



Enterprise solution map



Microservices

- 100% cloud based services platform
- Microservice development
- DevOps principles
- Automatic Builds, Tests and Deploys for increased quality assurance

- CASE

TEAM OF 3-5 FTE

Solution Architects & Developers

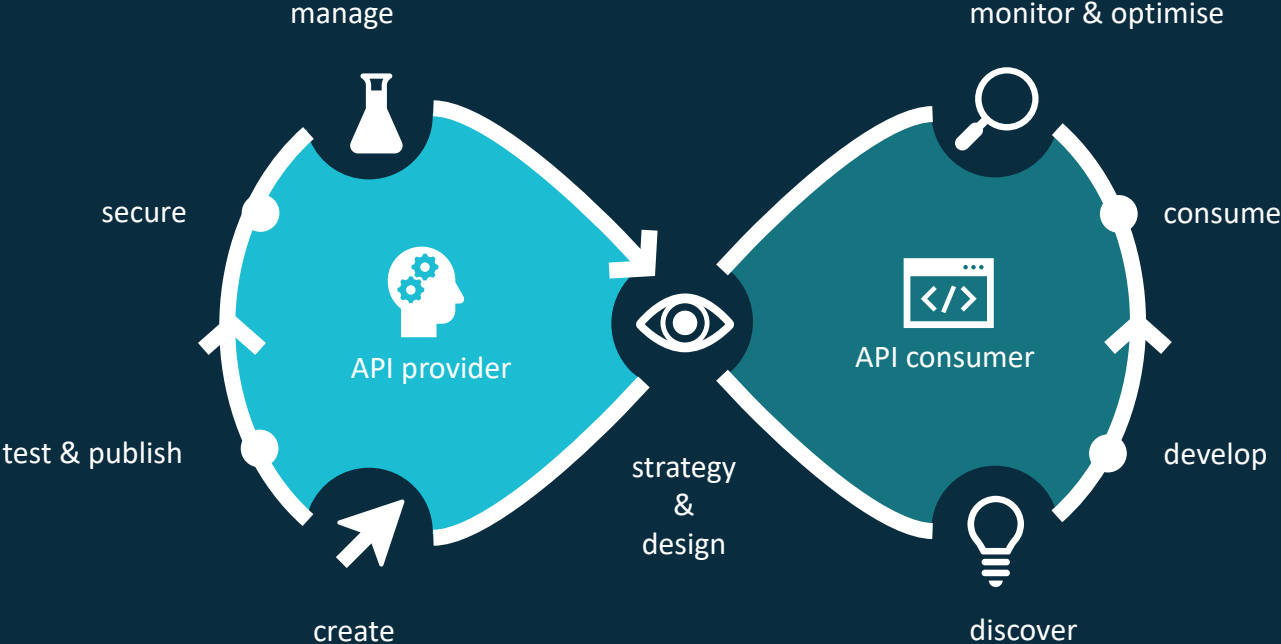
- Microsoft .Net Core and Azure
- Microservice based on REST protocol
- Api Management
- Custom Integrations
- Development of Power Apps

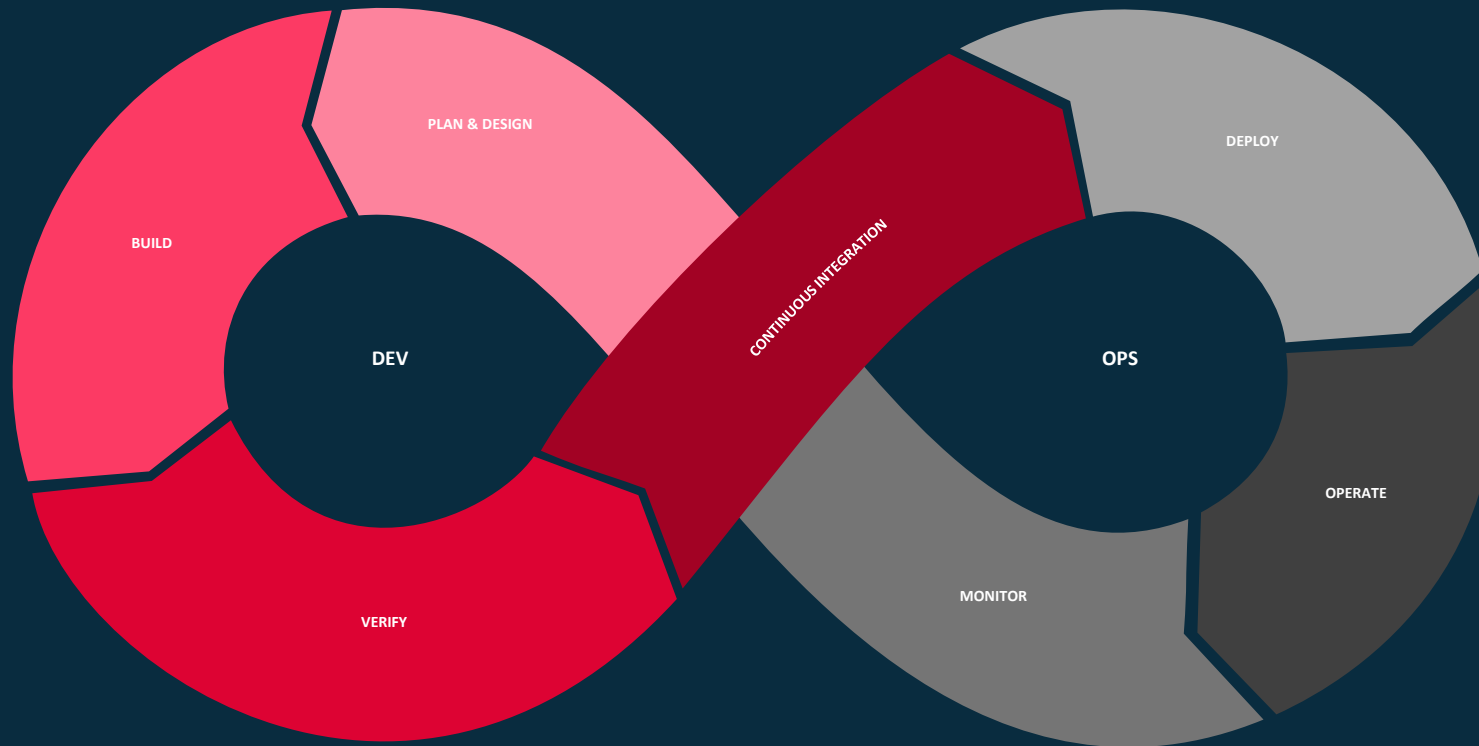
- Cloud based service platform
- Loosely-coupled, self contained Microservice architecture
- Integration Services development
- API publishing
- DevOps principles
- Automatic Builds, Tests and Deploys for increased quality assurance
- Version handled APIs, non breaking updates
- Proactive monitoring



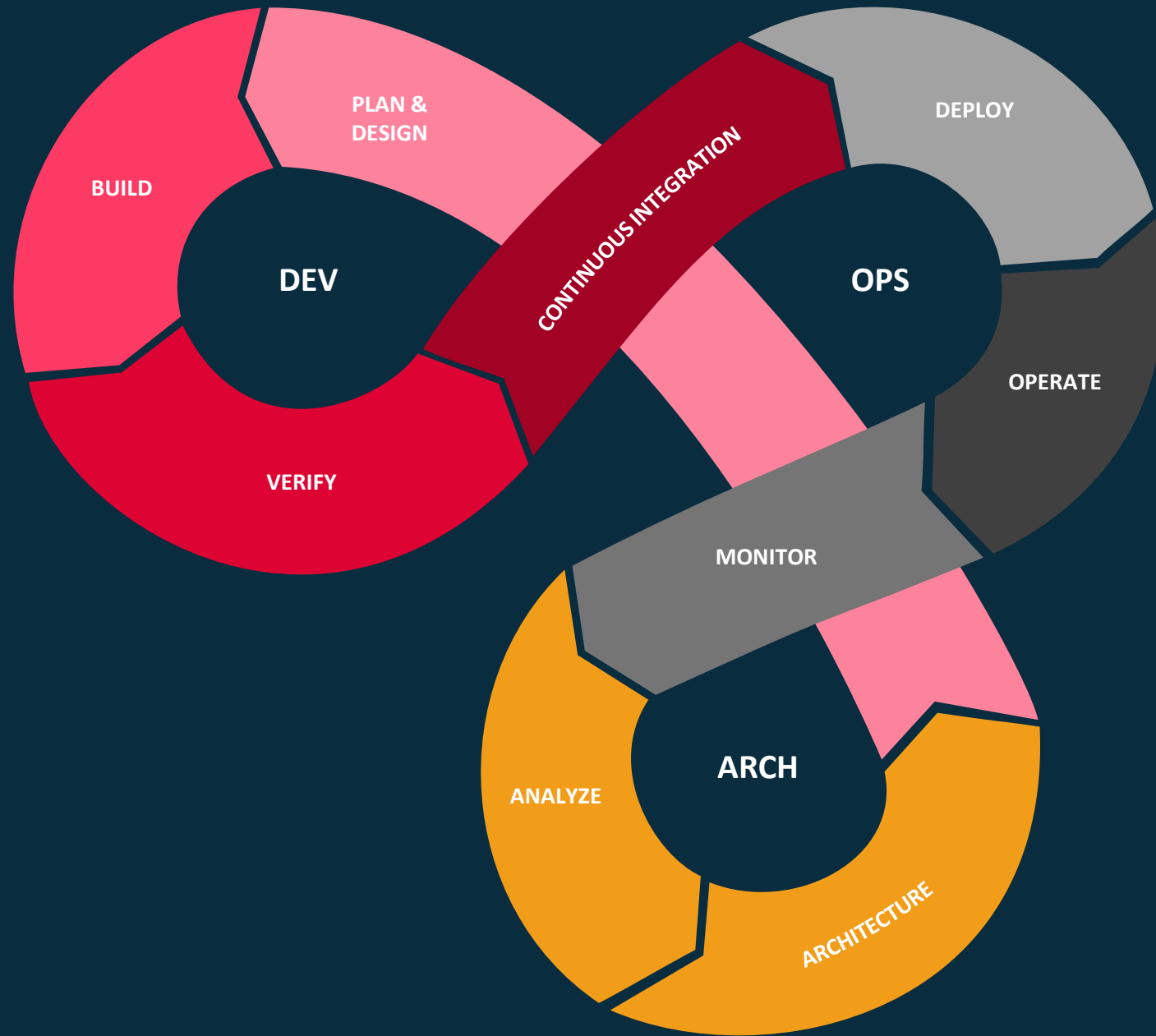
- CASE

FULL LIFE CYCLE API MANAGEMENT MODEL





- CASE





Microservices – Analyze

- Analyze results
- Outside-in approach (Business Requirements govern)
- Avoid Microservices to become the bottleneck for the company's innovation
- Implement API Management features gradually



Microservices - Architecture

- Single Responsibility – A Microservice shouldn't have hard dependencies to other Microservices
- Micro \neq Microscopic
- Versioning of APIer
- Loose Coupling – Plan for asynchronous communication with messages
- Design for “eventual consistency”
- Use an API Management solution to distribute and socialize the functionality of the Microservices
- SaaS & PaaS > IaaS
- Cloud first

Thank you!

API Management is about driving the consumption of business assets securely and easily

Business Strategy alignment is key when forming your architecture and establishing way of working, selecting platform and tools are downstream consequences

Consid is helping customers on their digital journey

MACH enables organizations to kickstart and evolve through agile

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