Architecture & Topology Patterns

Hybrid Integration Enablement

October 2017

Digital transformation demands a new architecture

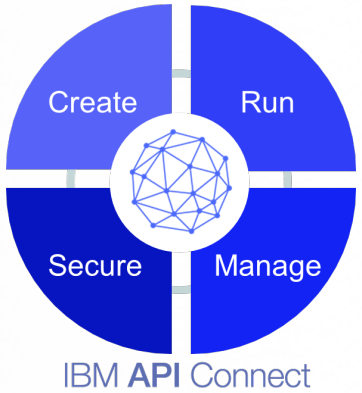
Client-Tier
Mobile, IoT, Web

Apps

Interaction Services Layer

What's needed is the **Interaction Services Layer**

- Designed for a microservices architecture
- Non-blocking, event-driven I/O to remain lightweight
- Efficient in the face of data-intensive real-time applications
- Supports massive concurrency
- Designed for hybrid cloud deployment
- Seamless communication between front-end and back-end systems
- Simplified & comprehensive API lifecycle to Create, Run, Manage and Secure APIs



Middle-Tier

Traditional SOA infrastructure designed for internal integration does not cut it for real-time external interactions

Enterprise Applications & Data
Back-end

Need for simplified discovery and secure reuse of Systems of Record via APIs

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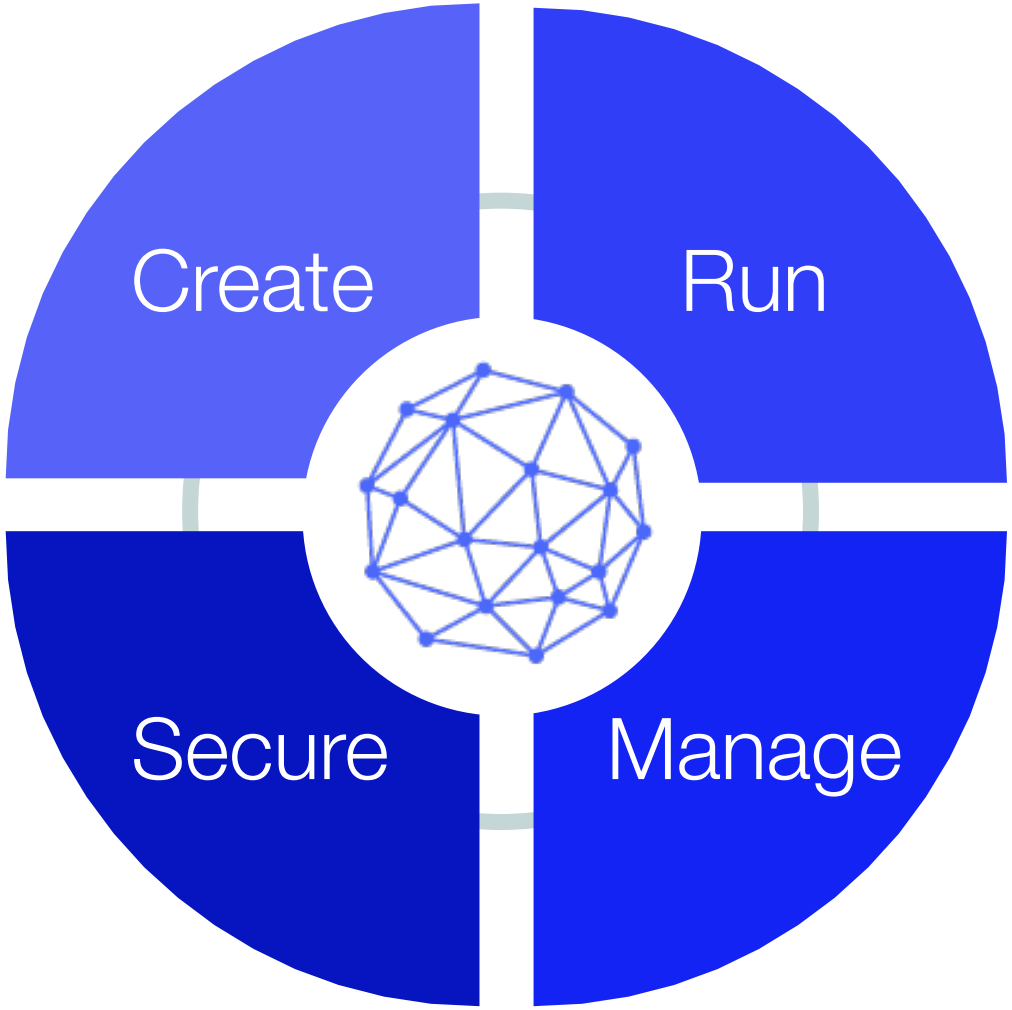
IBM API Connect: Simplified & Comprehensive API Foundation



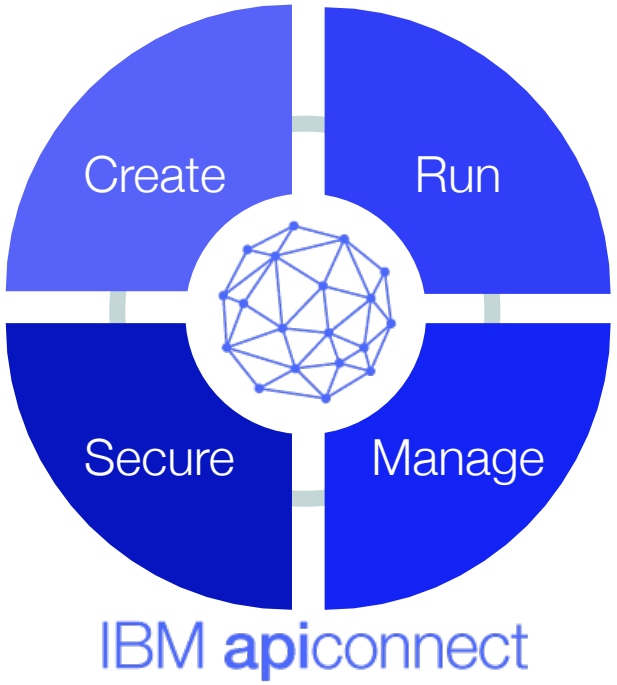
IBM API Connect: Simplified & Comprehensive API Foundation

What is API Connect?

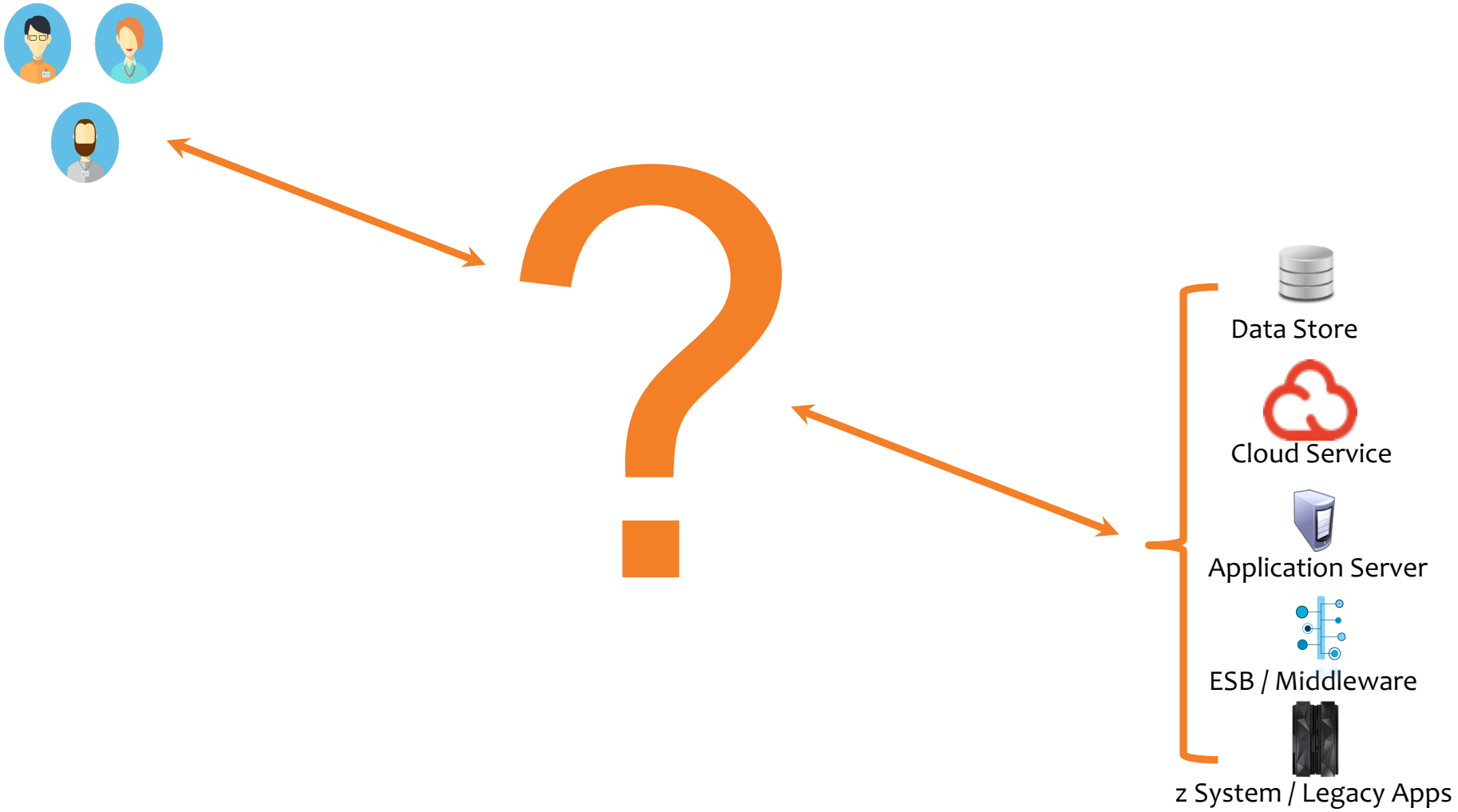
An integrated creation, runtime, management, and security foundation for enterprise grade API's and Microservices to power modern digital applications

What does API Connect provide?

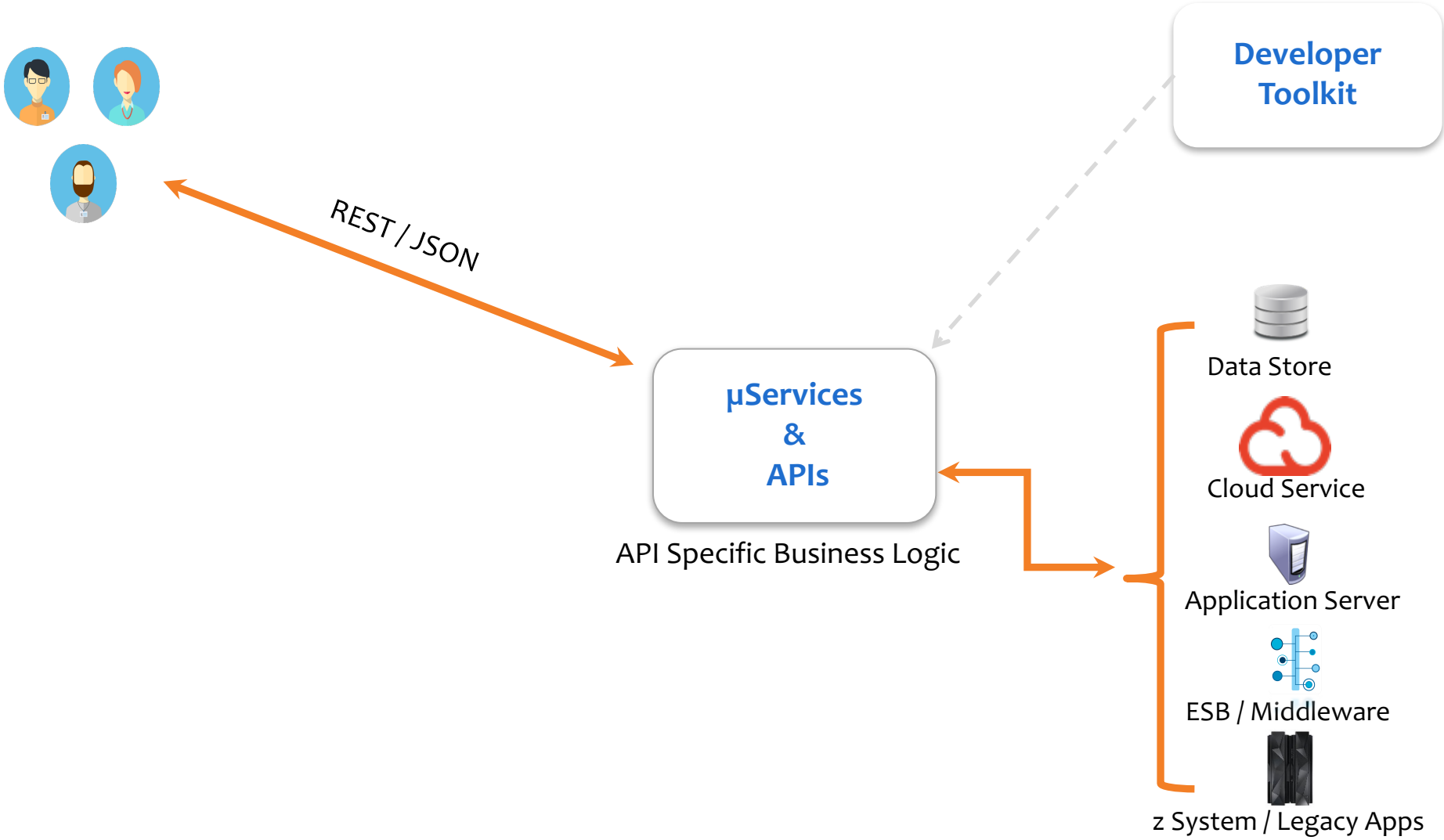
- Automated, visual and coding options for creating APIs
- Automated discovery of system of records APIs
- Node.js and Java support for creating Microservices
- Integrated enterprise grade clustering, management and security for Node.js and Java
- Lifecycle and governance for APIs, Products and Plans
- Access control over API's, API Plans and API Products
- Advanced API usage analytics
- Customizable, self service developer portal for publishing APIs
- Policy enforcement, security and control



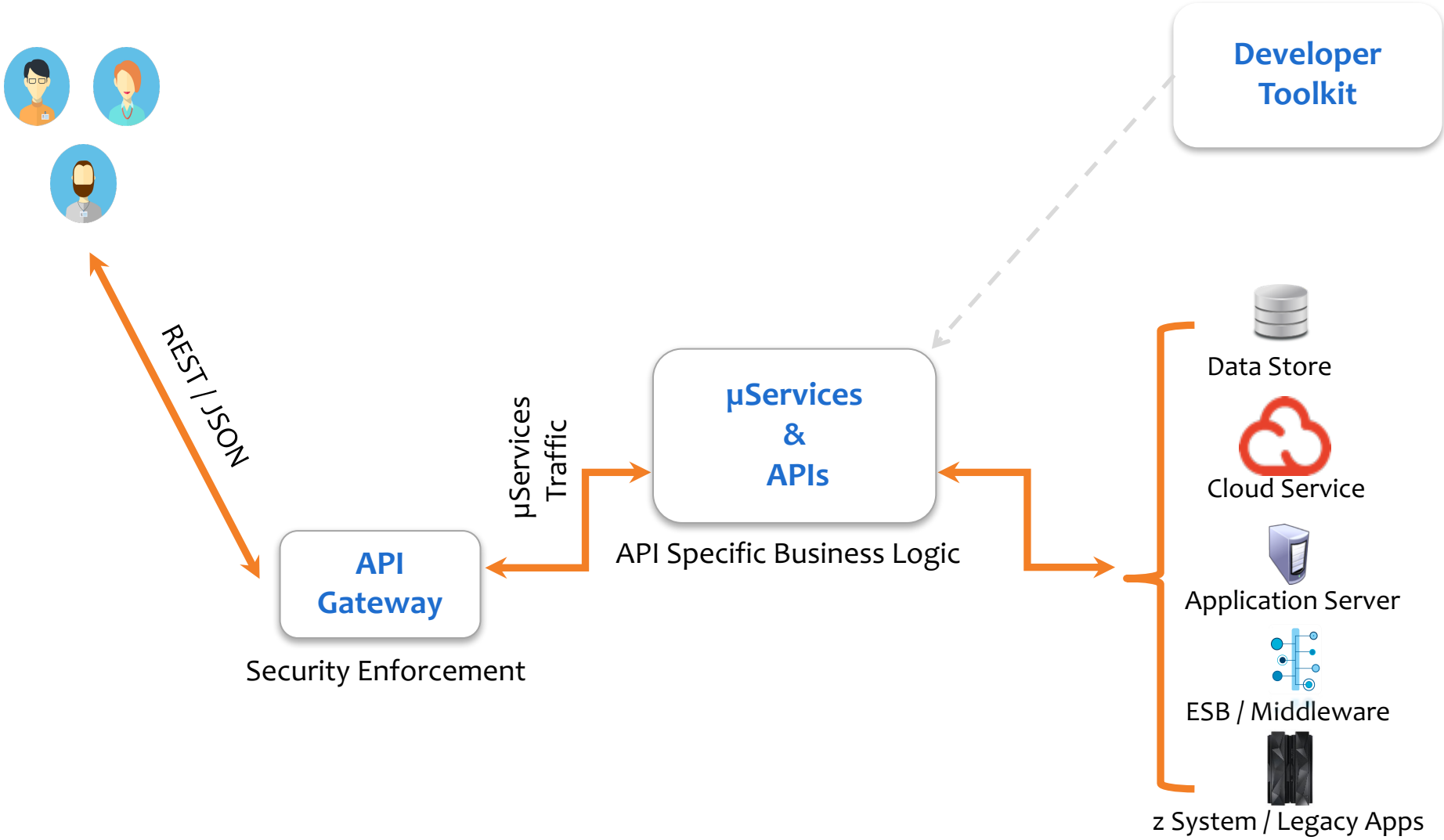
How Do You Expose Data to Developers?



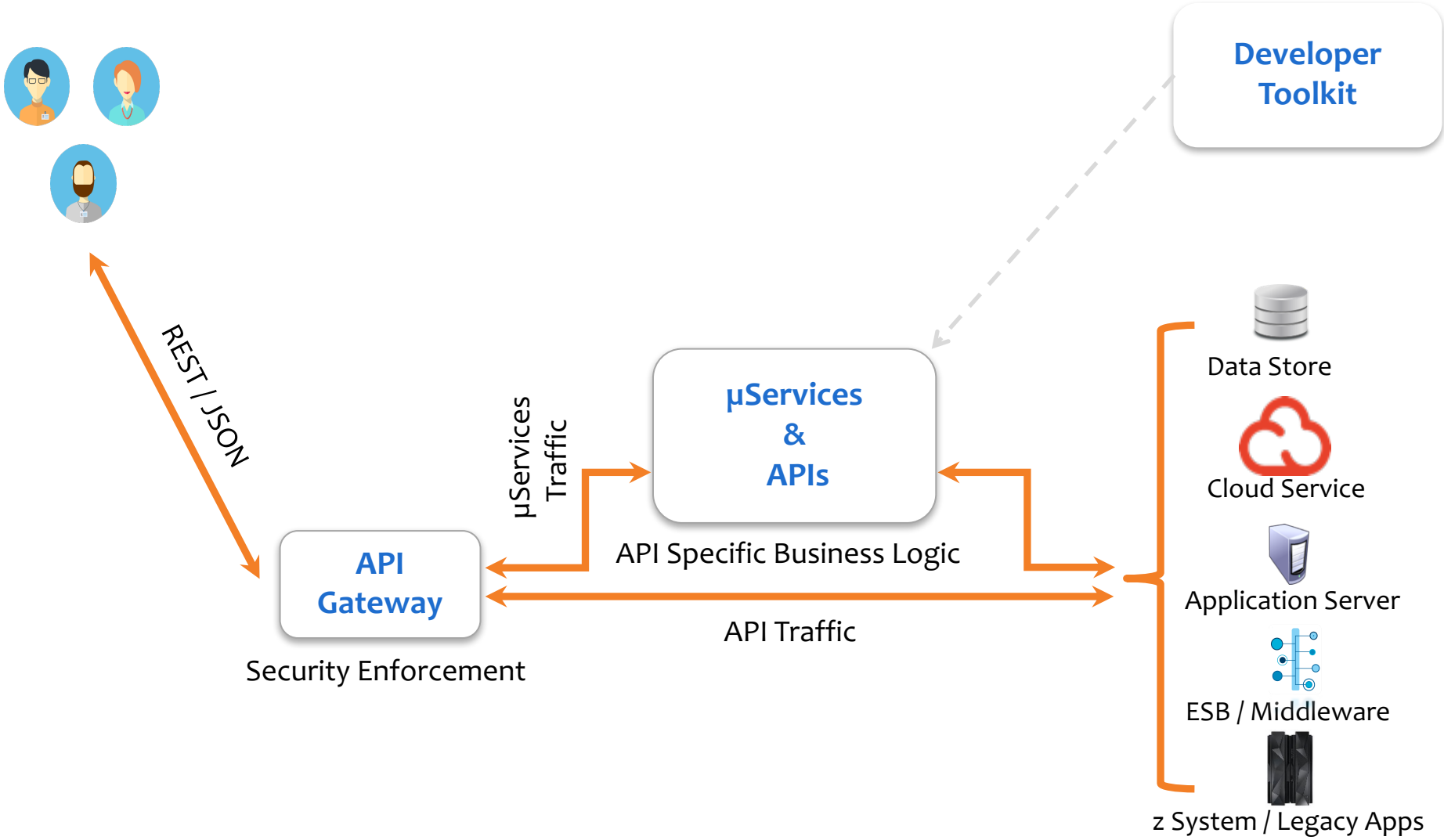
µServices & APIs to Expose Enterprise Data



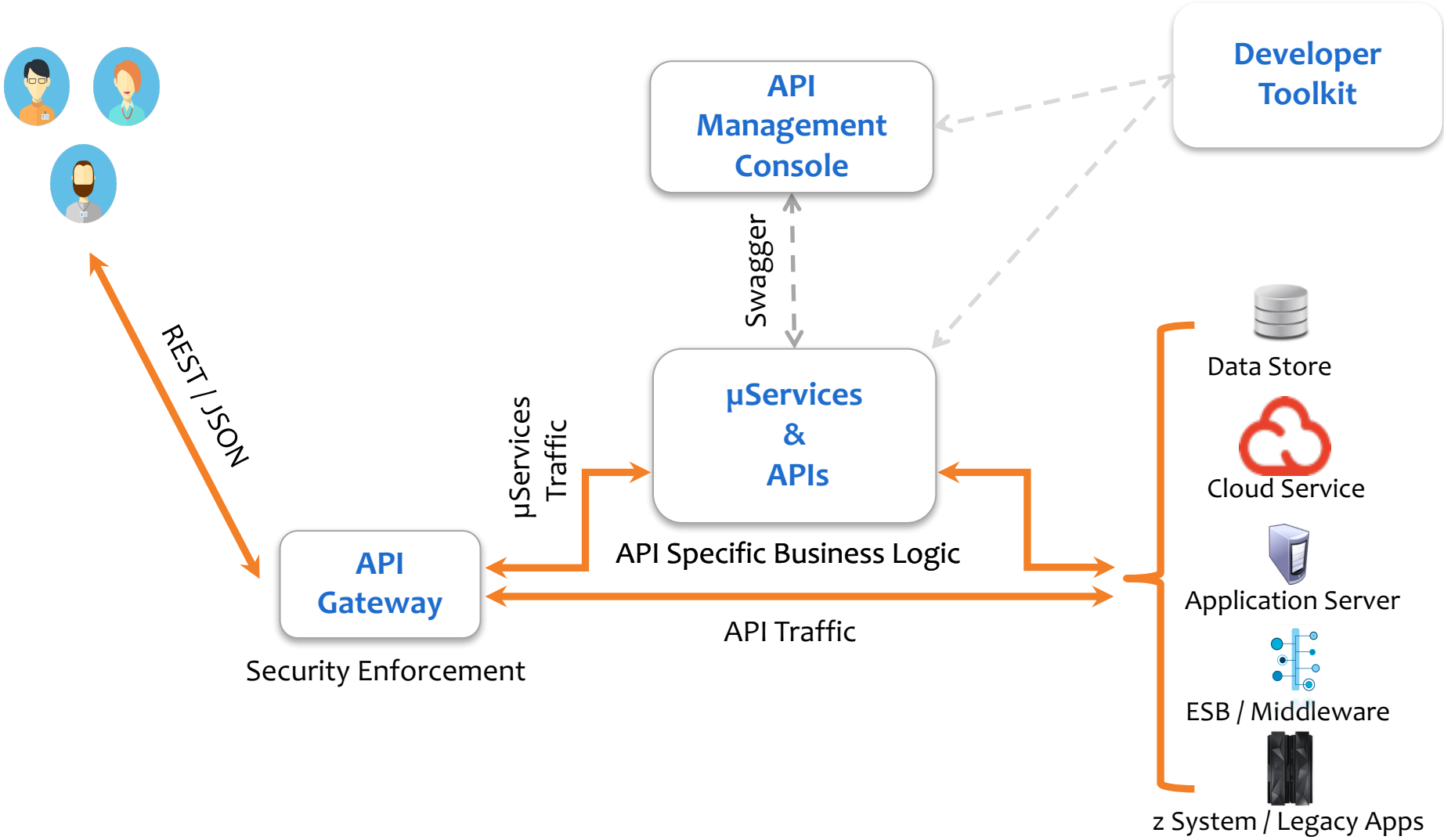
API Gateway for Security Enforcement



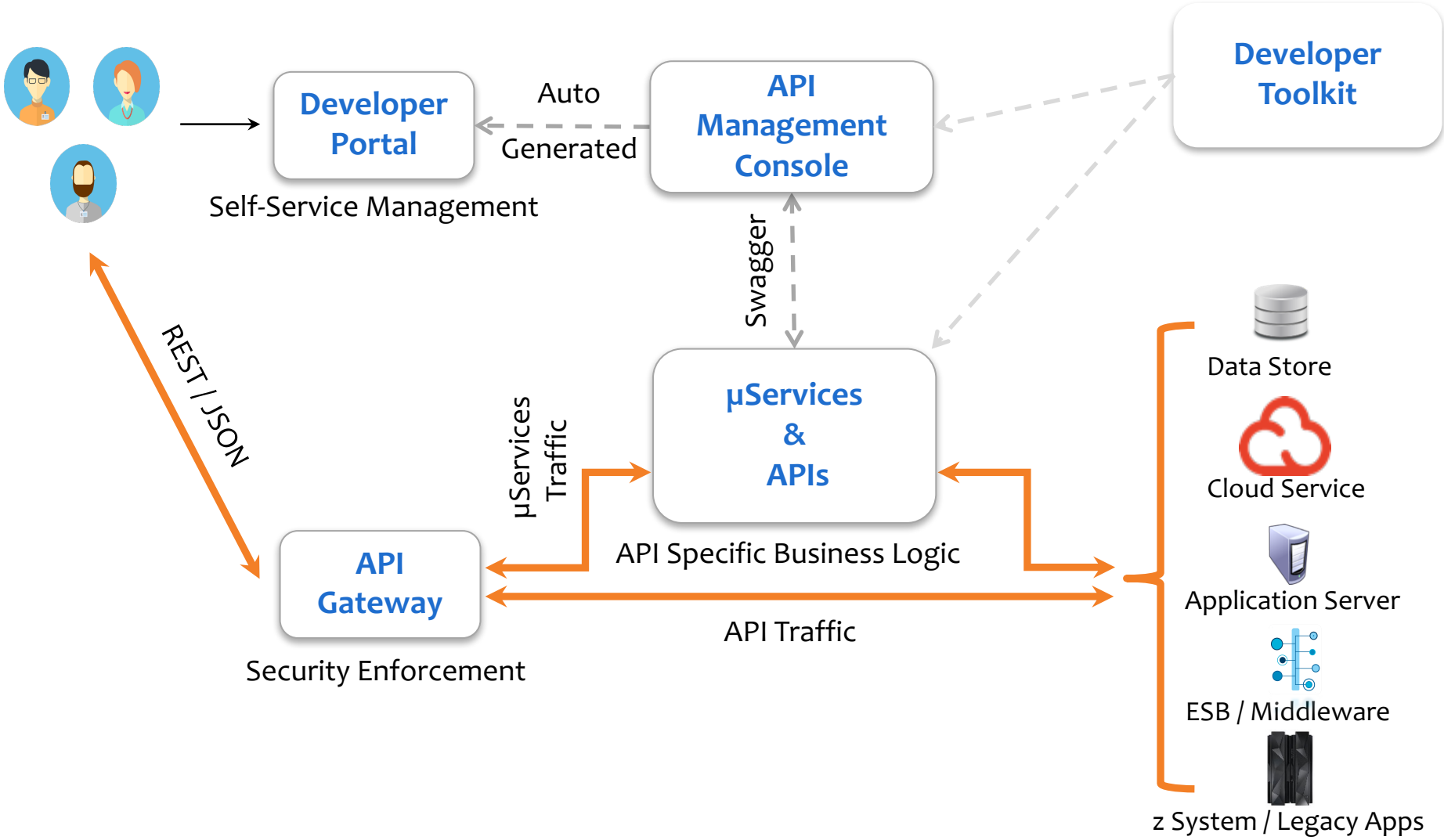
API Gateway for Direct Data Proxying



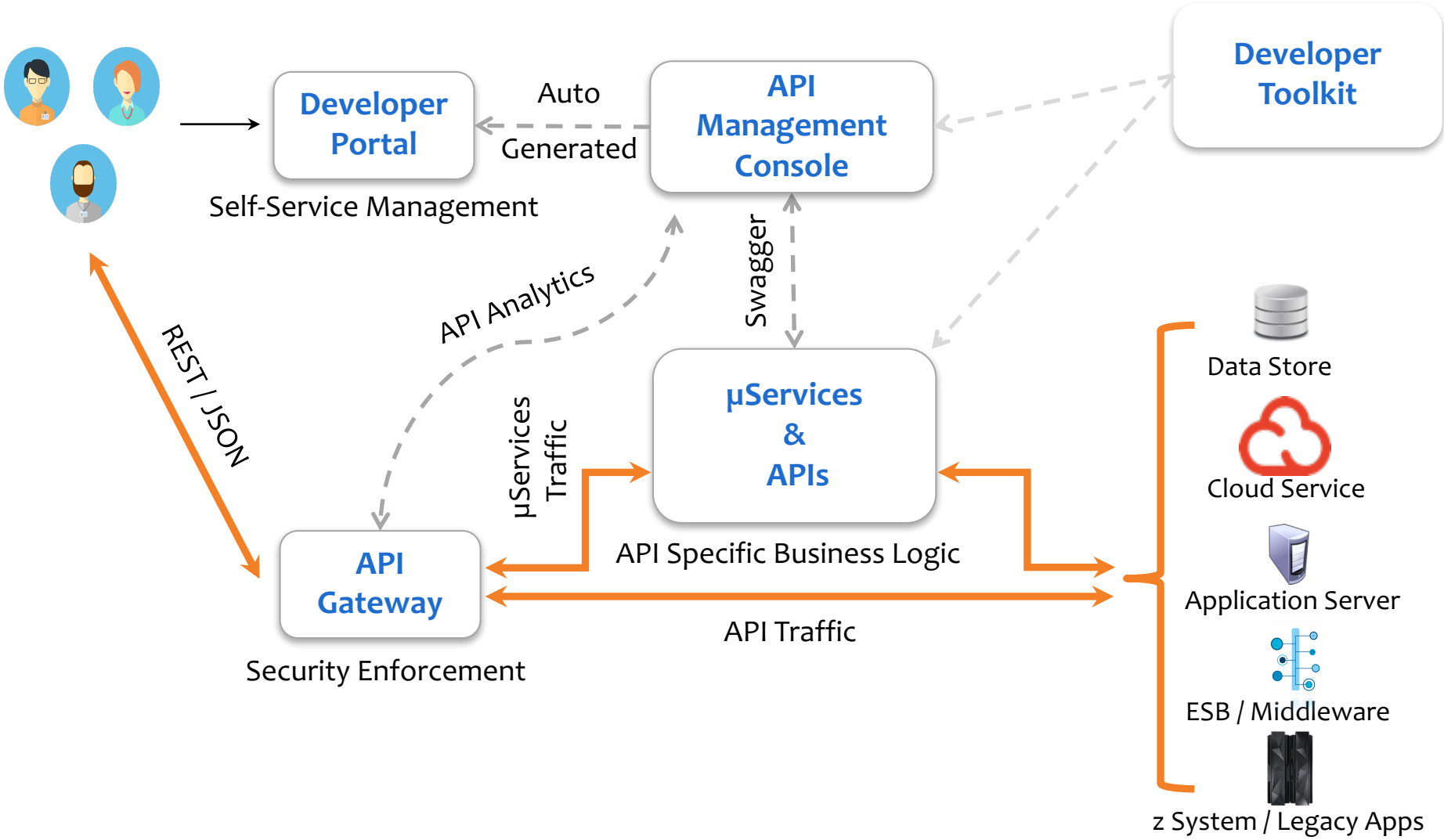
Manage your APIs and Security Policies



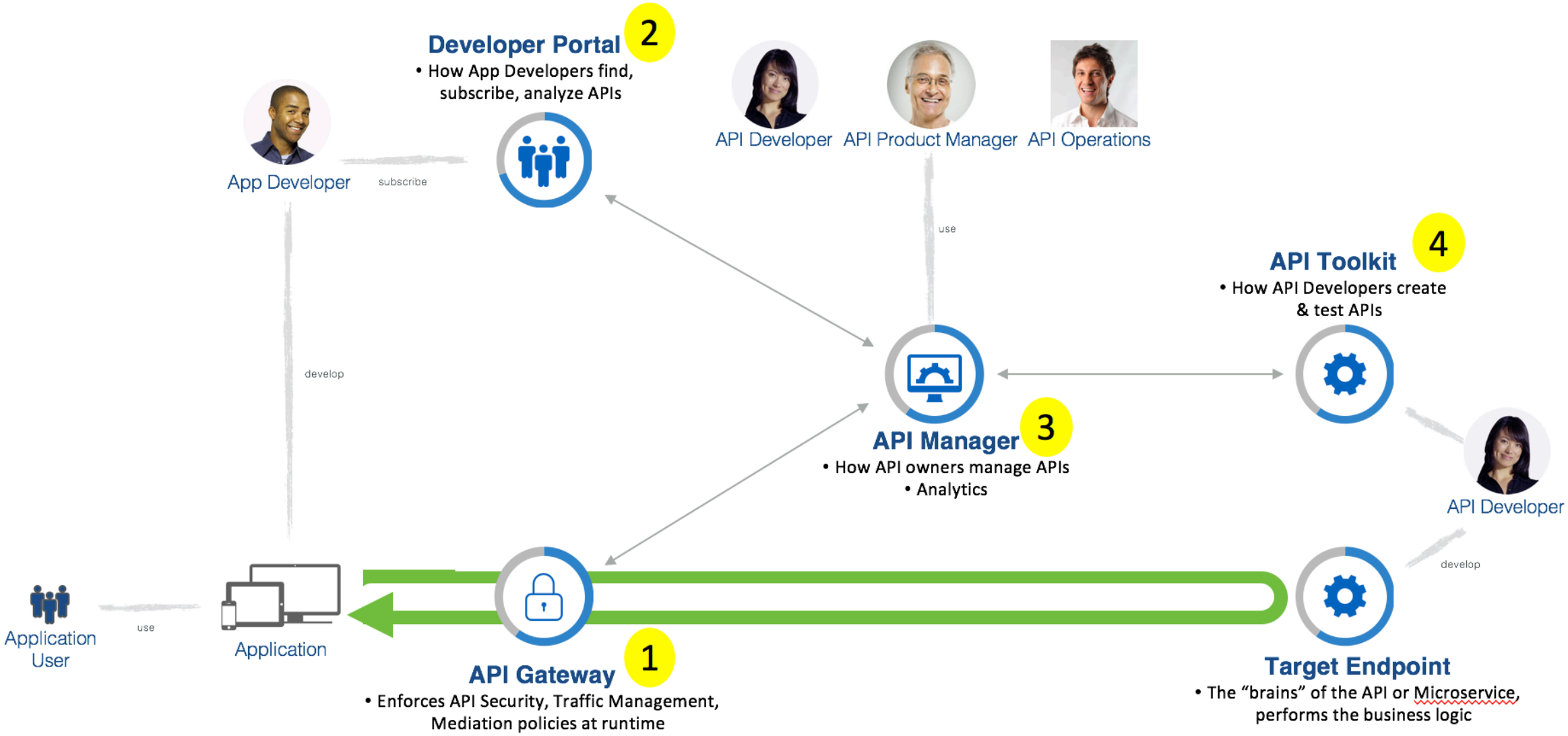
Self-Serviceability for Developers



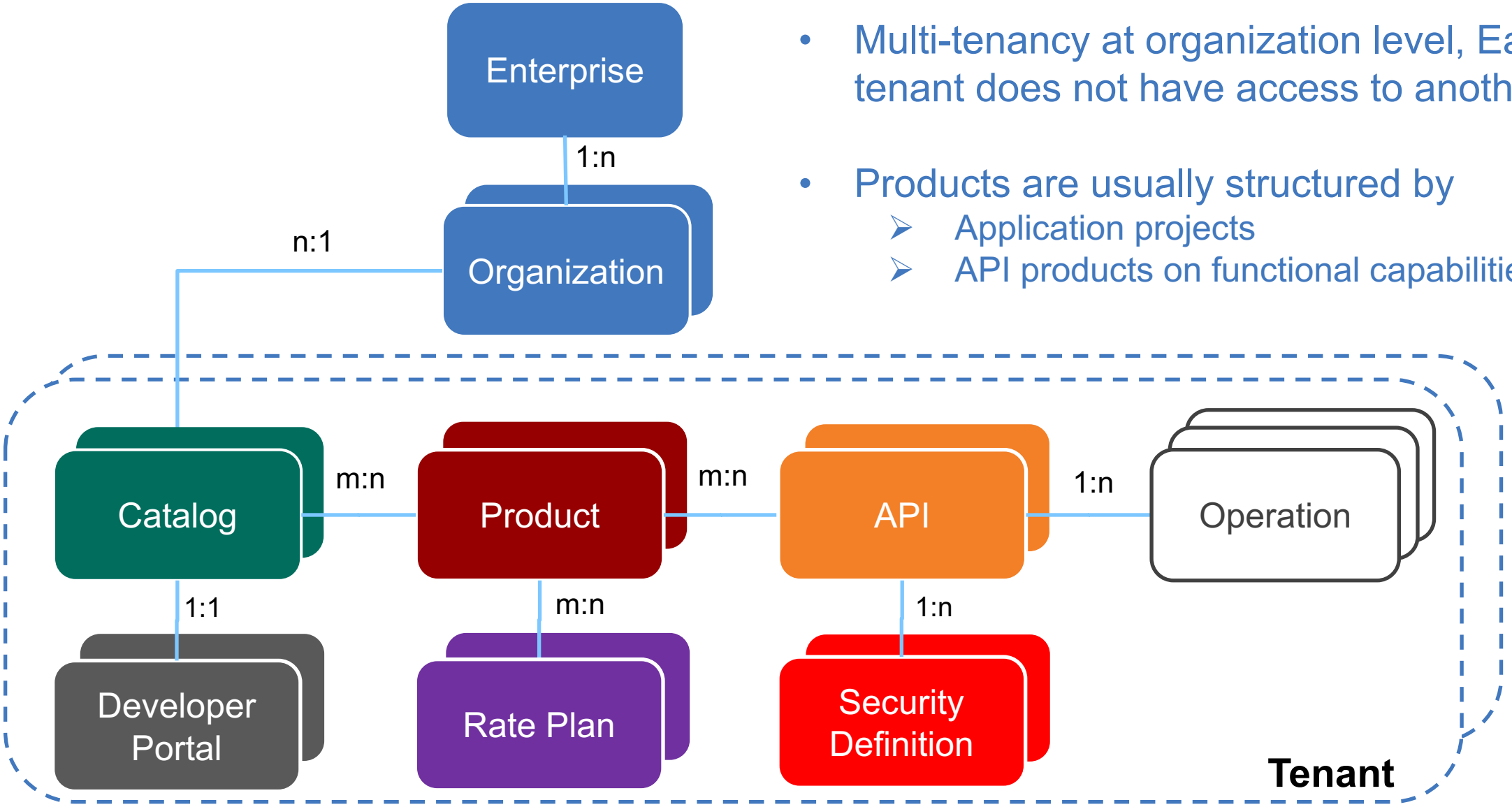
API Analytics to meet your SLAs



Topology & Roles



API Management Entities and Relationships



- Multi-tenancy at organization level, Each tenant does not have access to another
- Products are usually structured by
  - Application projects
  - API products on functional capabilities

Architecture & Topology Questions

- Open Conversation / Questions?

Up Next: Swagger & API Patterns

Demo