

# The Taming of the API

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# THANKS TO ALL OUR SPONSORS!





# Who is Chad Green

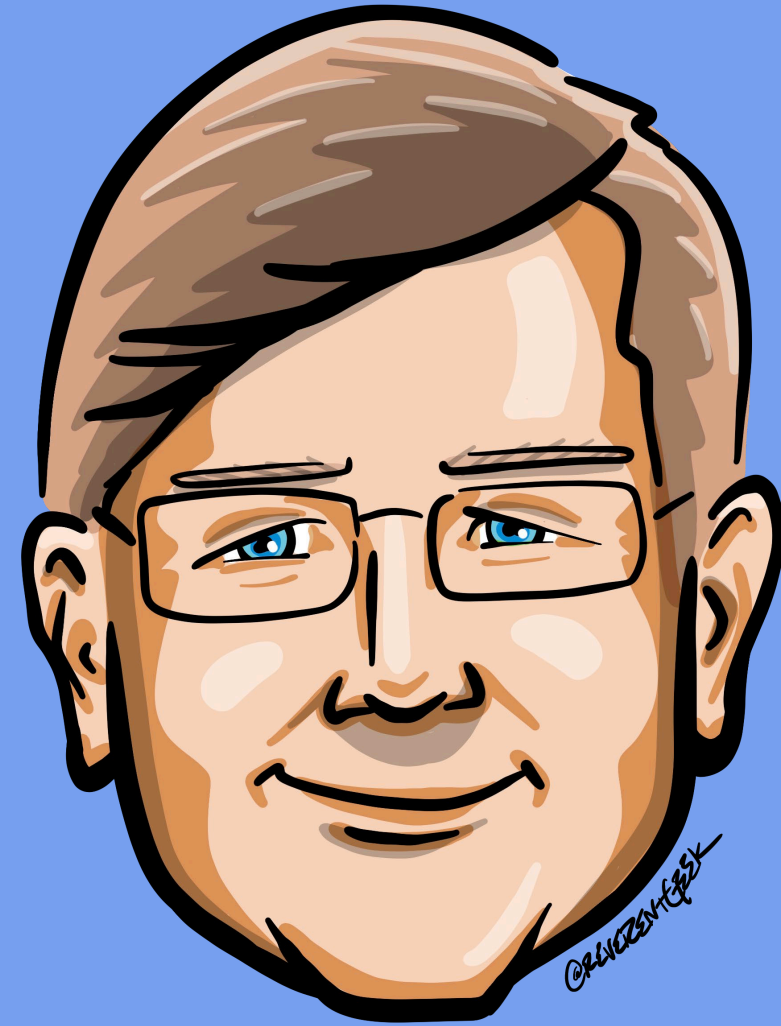
✉ chadgreen@chadgreen.com

💬 TaleLearnCode

🌐 ChadGreen.com

🐦 ChadGreen & TaleLearnCode

🌐 ChadwickEGreen





# {Code PaLOUsa}

IT'S SOFTWARE DEVELOPMENT MADNESS

## August 17 – 19, 2022



Keynote – Christina Aldan



.NET Rocks! 20<sup>th</sup> Anniversary Party

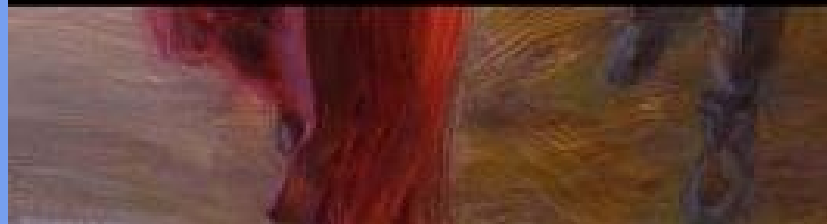


A Toast to Women in Technology

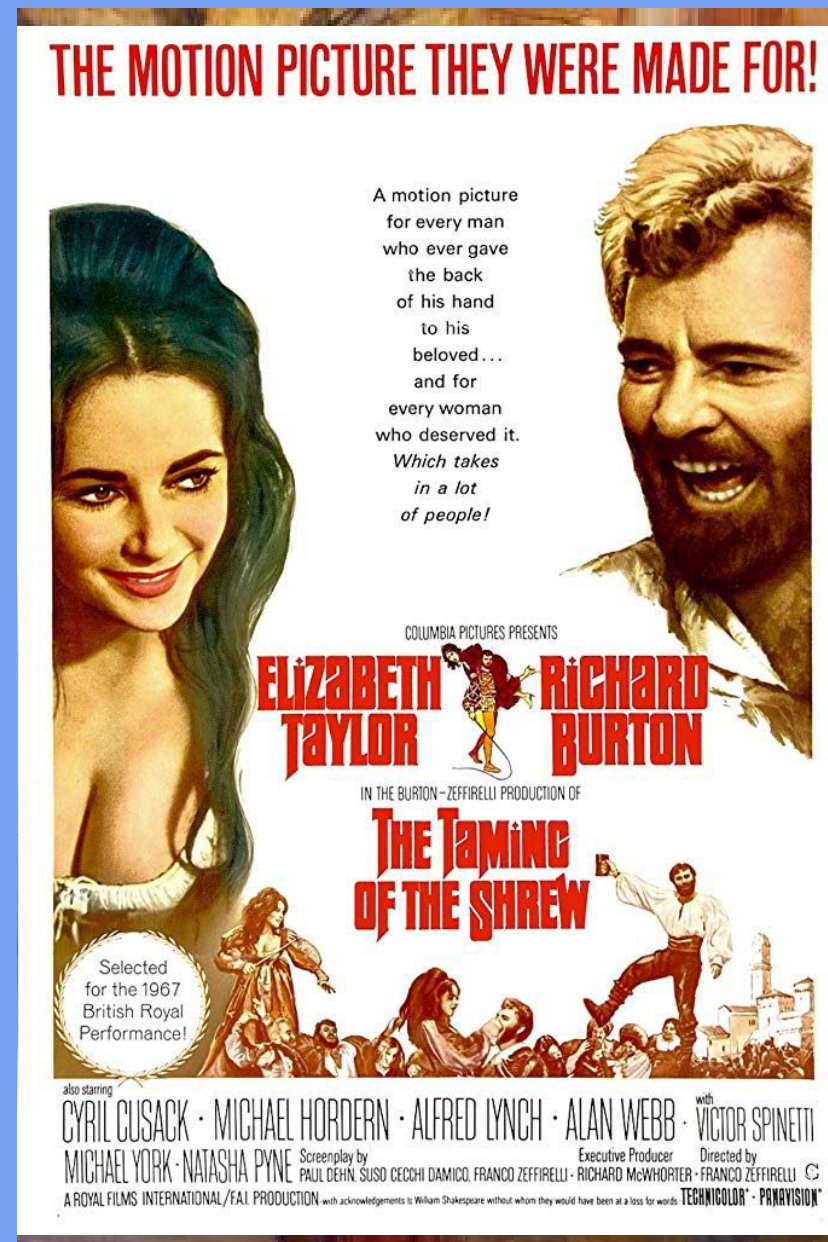
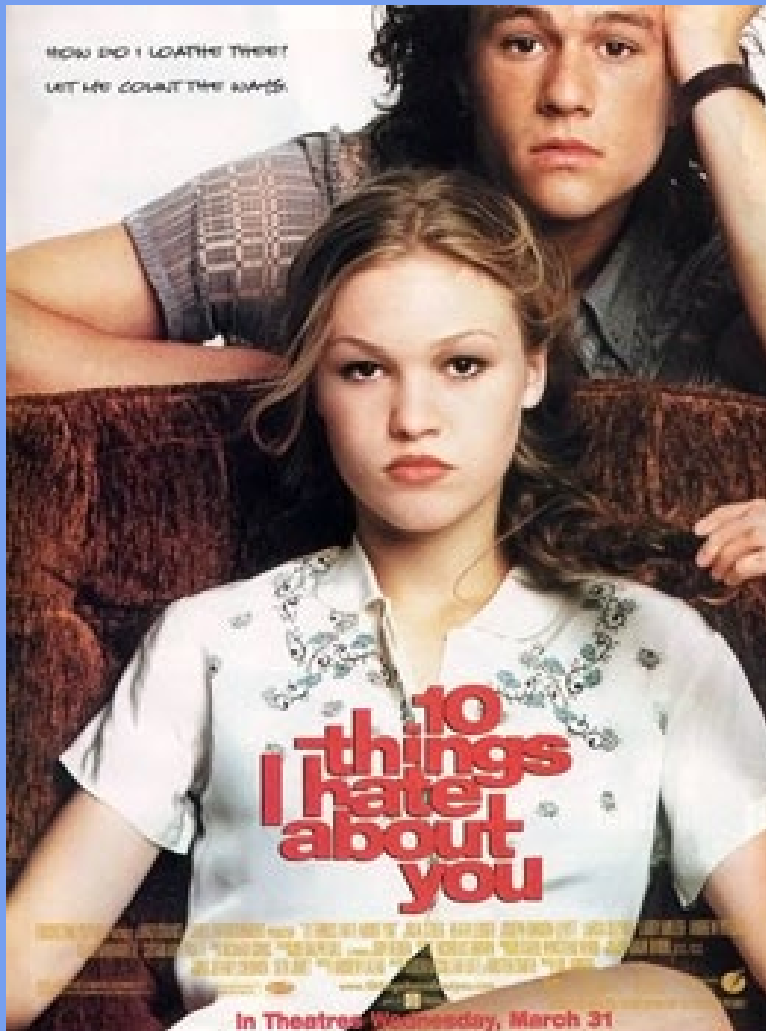


# THE TAMING OF THE SHREW

*William Shakespeare*







LA COLUMBIA PICTURES PRESENTA

**ELIZABETH TAYLOR · RICHARD BURTON**

IN UNA PRODUZIONE BURTON · ZEFFIRELLI



**LA BISBETICA DOMATA**

CYRIL CUSACK · MICHAEL HORDERN · ALFRED LYNCH · ALAN WEBB

VICTOR SPINETTI · MICHAEL YORK · NATASHA PYNE

SCENEGGIATURA DI PAUL DEHN, SUSO CECCHI D'AMICO, FRANCO ZEFFIRELLI

PRODUTTORE ESECUTIVO RICHARD McWHORTER

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No profit grows where is  
no pleasure ta'en. In  
brief, sir, study what you  
most affect

# What's the problem?



Jokes



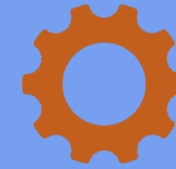
Famous  
Quotes



Movie  
Quotes



Inspiration  
Quotes



Chuck  
Norris  
Facts

Who

What

When

Where

Why

How



# What's the problem?



Jokes



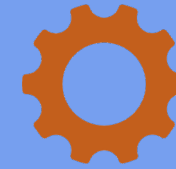
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Who

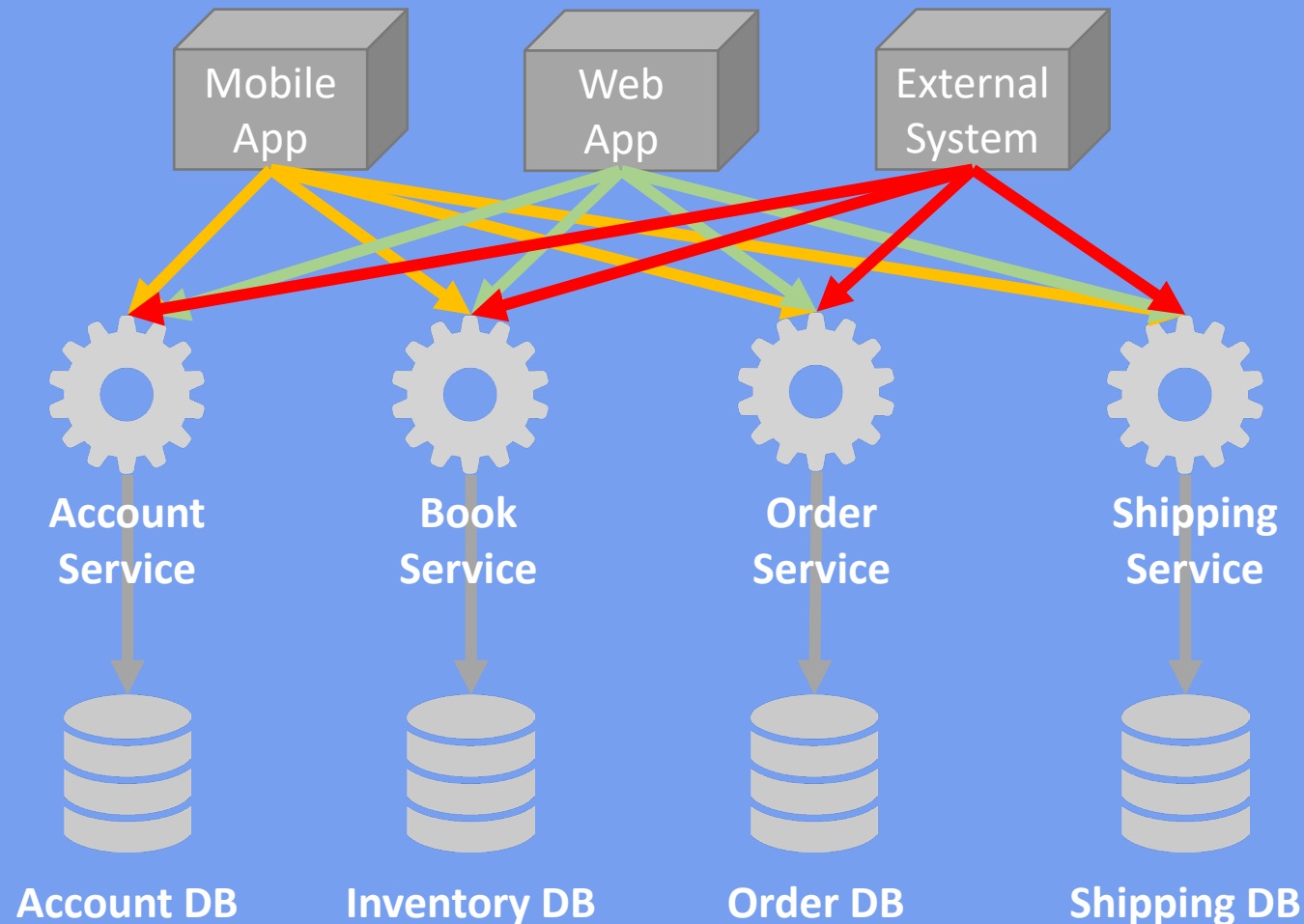
What

When

Where

Why

How







# API Management Basics

# What is API Management?

**Creating**  
API Connections

**Publishing**  
API Connections

**Managing**  
API Connections

# What is API Management?

**Creating**  
API Connections

**Publishing**  
API Connections

**Managing**  
API Connections



# What is API Management?

**Creating and  
Publishing APIs**

**Enforcing Usage  
Policies**

**Controlling Access**

**Nurturing Developer  
Community**

**Tracking Usage**

**Performance  
Reporting**

# API Management Benefits

**Data-Driven  
Decisions**

# API Management Benefits

**Data-Driven  
Decisions**

**Security Threat  
Protection**



# API Management Benefits

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# API Management Benefits

Data-Driven  
Decisions

Security Threat  
Detection

Documentation

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# API Management Benefits

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Documentation

Centralized  
Visibility

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Positive User  
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Agile Ecosystem

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Monetization

Optimized Value

Integration



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# API Management Benefits

**Data-Driven  
Decisions**

**Security Threat  
Protection**

**Documentation**

**Centralized  
Visibility**

**Monetization**

**Positive User  
Experience**

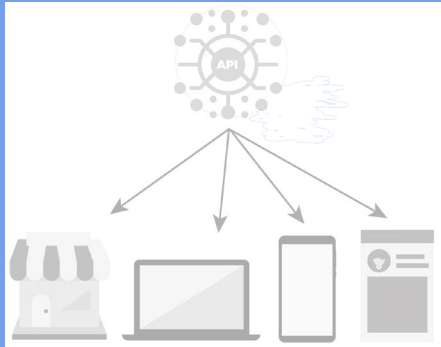
**Agile Ecosystem**

**Optimized Value**

# API Management Use Cases



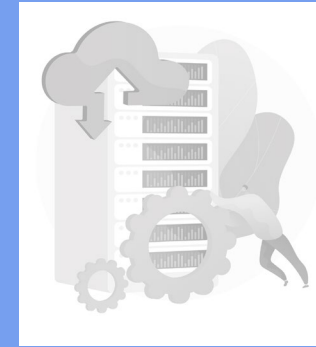
API Integration



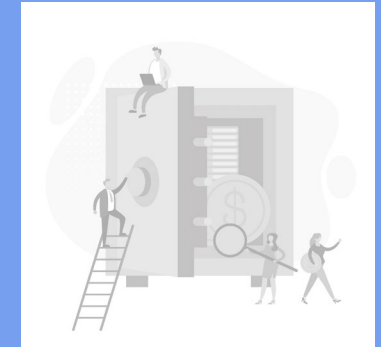
Multi-Channel  
User Experiences



B2B Integration



Data as a Service



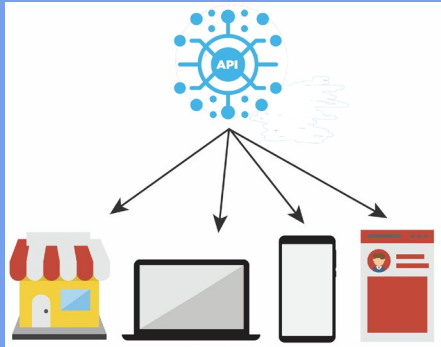
Unlocking  
Legacy Assets

## API Integration

# API Management Use Cases



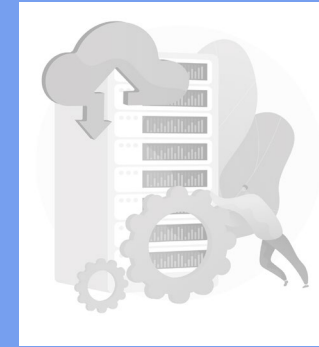
API Integration



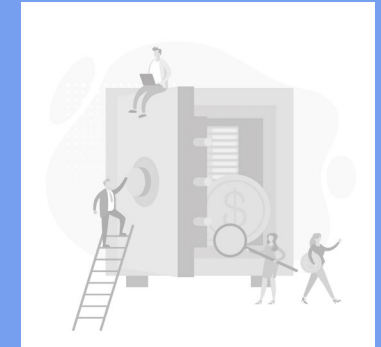
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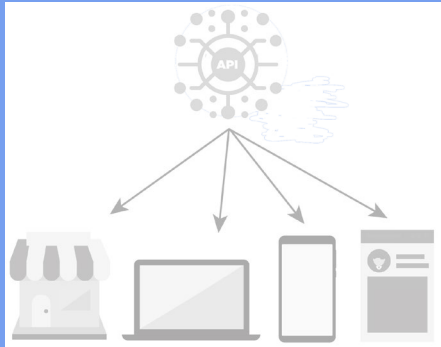
Unlocking  
Legacy Assets

## Multi-Channel User Experiences

# API Management Use Cases



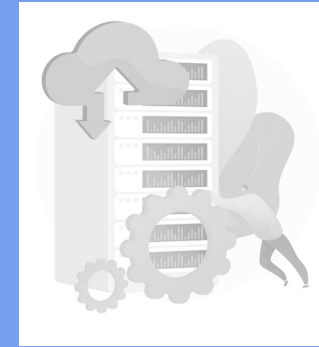
API Integration



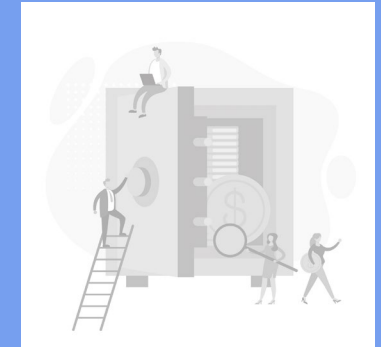
Multi-Channel  
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B2B Integration



Data as a Service



Unlocking  
Legacy Assets

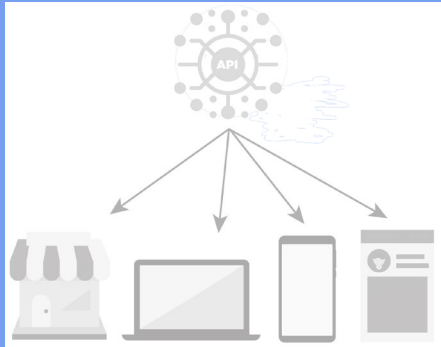
## B2B Integration



# API Management Use Cases



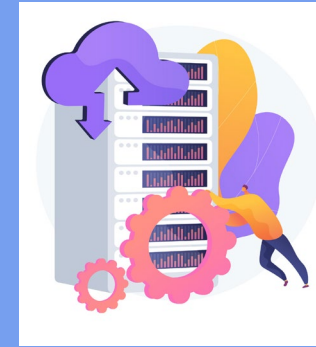
API Integration



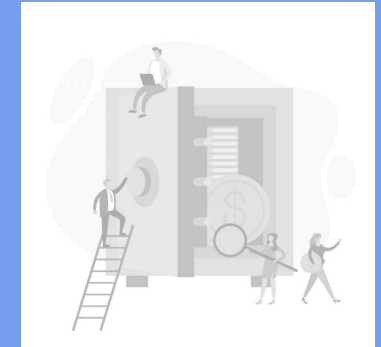
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B2B Integration



Data as a Service



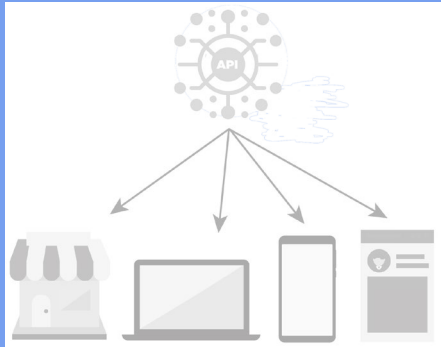
Unlocking  
Legacy Assets

## Data as a Service

# API Management Use Cases



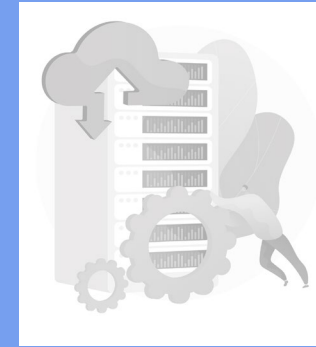
API Integration



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B2B Integration



Data as a Service



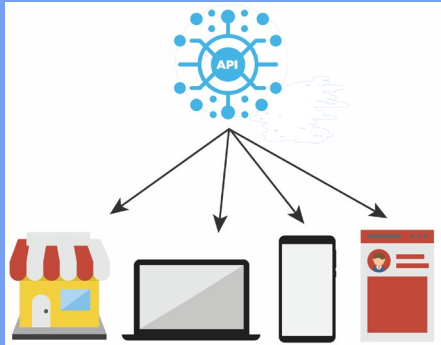
Unlocking  
Legacy Assets

## Unlocking Legacy Assets

# API Management Use Cases



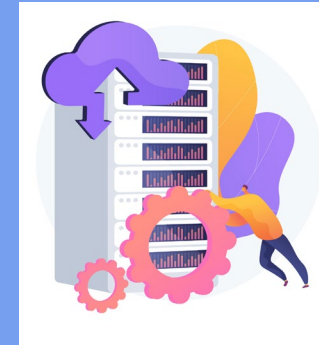
API Integration



Multi-Channel  
User Experiences



B2B Integration



Data as a Service



Unlocking  
Legacy Assets

# API Management Components

Gateway

# API Management Components

Gateway

Policy Manager

# API Management Components

Gateway

Developer Portal



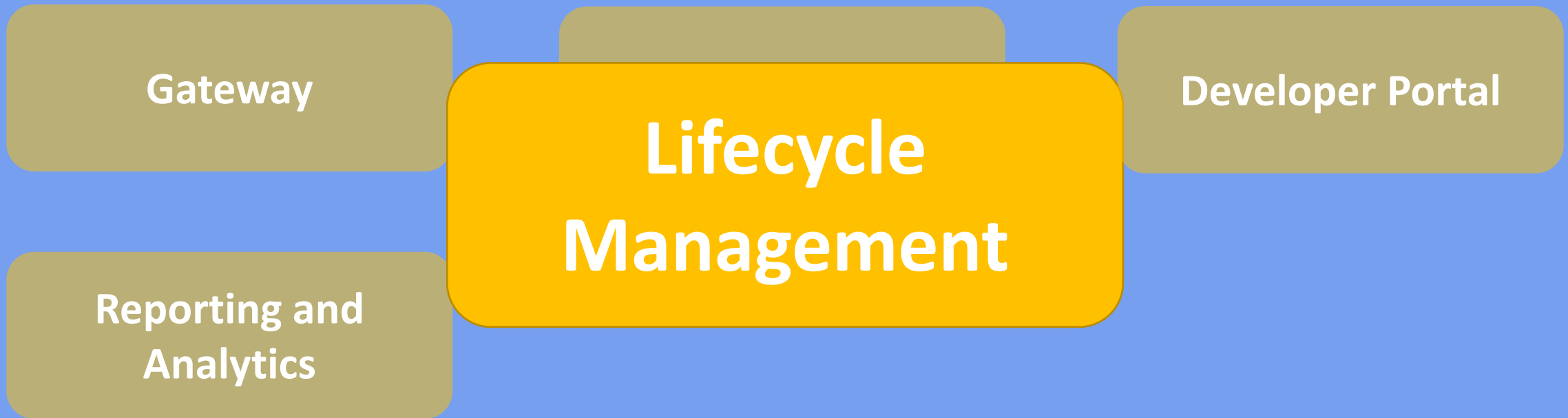
# API Management Components

Gateway

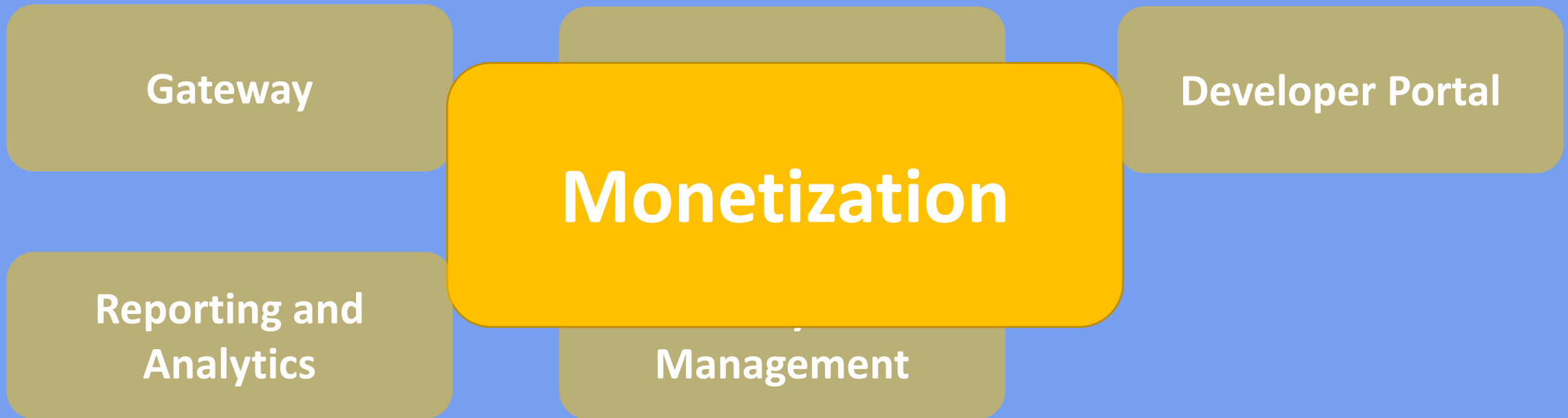
Reporting and  
Analytics

Developer Portal

# API Management Components



# API Management Components



# API Management Components



# API Management Components

Gateway

Policy Manager

Developer Portal

Reporting and  
Analytics

Lifecycle  
Management

Monetization

# API Management Marketplace



There's small choice  
in rotten apples

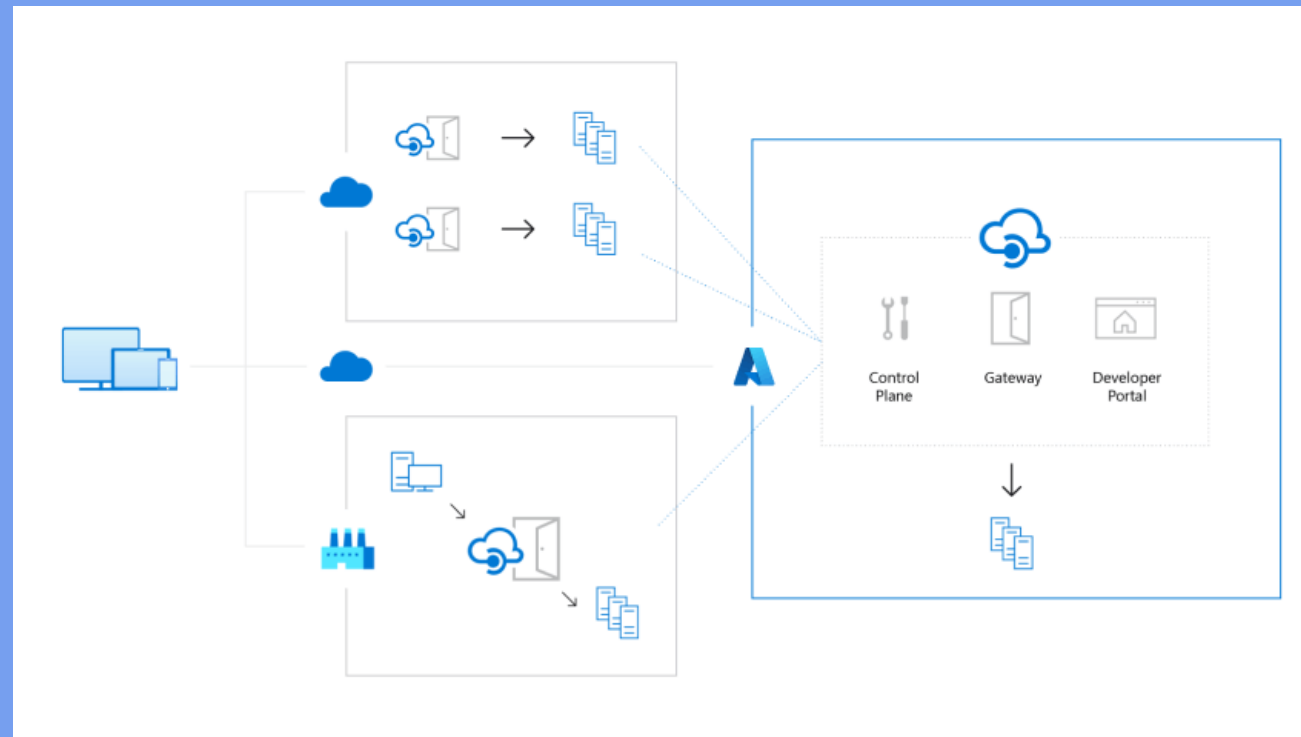
# API Management Offerings





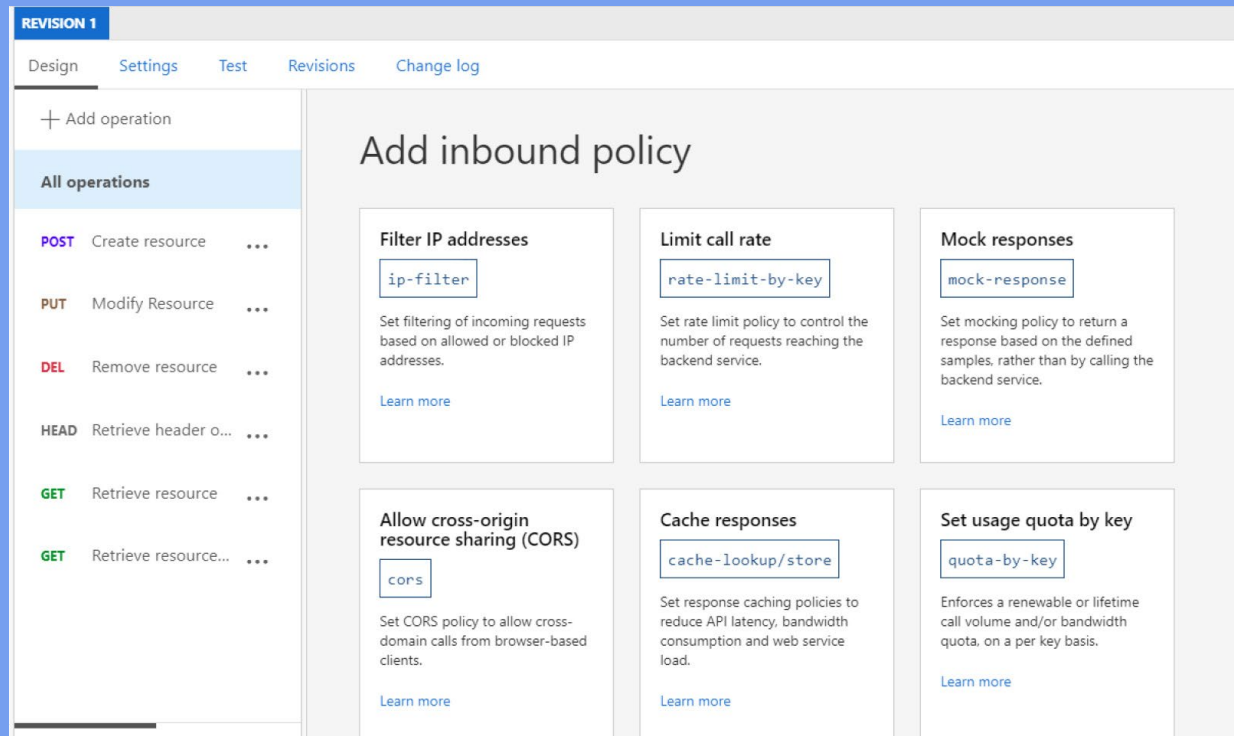
# Azure API Management

Manage APIs across clouds and on-premises



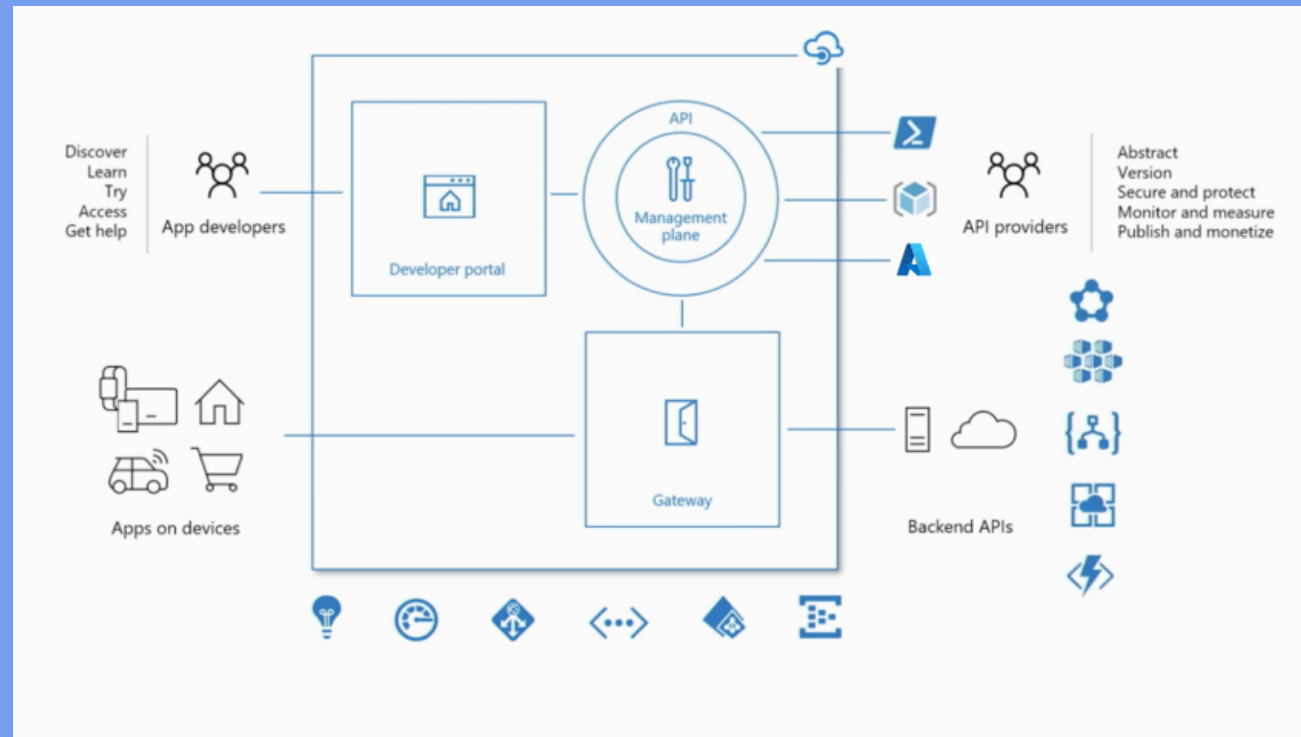
# Azure API Management

## Help protect your resources



# Azure API Management

Accelerate your business



# Azure API Management

## Improve API discoverability

The screenshot displays the Azure API Management console for a service named 'contoso'. On the left, a sidebar lists several API operations: POST Create resource, PUT Modify Resource, DEL Remove resource, HEAD Retrieve header only, GET Retrieve resource (highlighted), and GET Retrieve resource (cached). The main area shows the 'Echo API' details, including a 'Retrieve resource' section with a description: 'A demonstration of a GET call on a sample resource. It is handled by an "echo" ba are being returned as received)'. Below this, a 'Request' tab shows a GET request to 'https://mibudz-portal.developer.azure-api.net/echo/resource'. On the right, a detailed view of the 'Retrieve resource' operation is shown, including the endpoint '/resource', a parameter 'id' with value '1', and a header 'Content-Type' with value 'application/json'. At the bottom right, an 'HTTP request' section shows the full request: 'GET https://api.contoso.com/echo/resource?id=1' with headers 'Content-Type: application/json' and 'Ocp-Apim-Trace: true'.

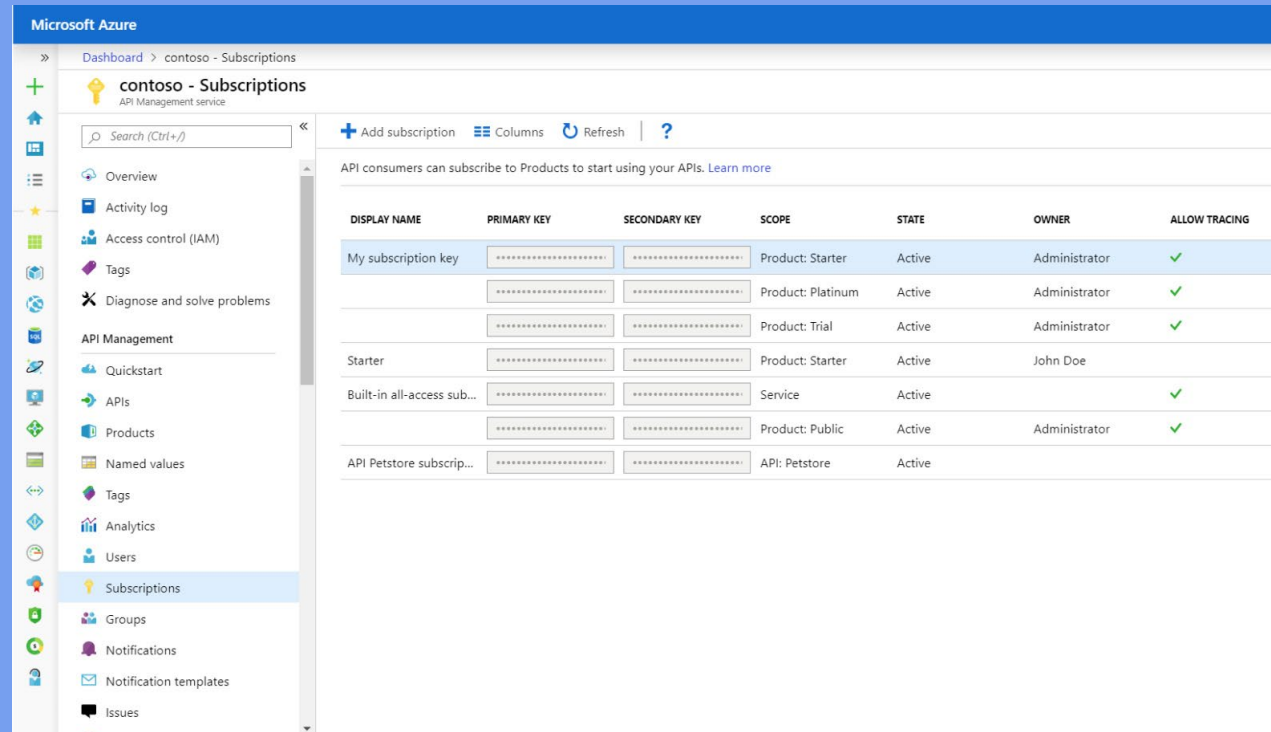
# Azure API Management

## Transform your existing services

The screenshot displays the Azure API Management console for a service named 'contoso'. On the left, a sidebar lists several API operations: 'POST Create resource', 'PUT Modify Resource', 'DEL Remove resource', 'HEAD Retrieve header only', 'GET Retrieve resource' (which is highlighted), and 'GET Retrieve resource (cached)'. The main area shows the 'Echo API' configuration, specifically the 'Retrieve resource' operation. A description states: 'A demonstration of a GET call on a sample resource. It is handled by an "echo" ba are being returned as received)'. Below this, a 'Request' tab shows a 'Response 200' and a 'GET' request to 'https://mibudz-portal.developer.azure-api.net/echo/resource'. On the right, a detailed view of the 'Retrieve resource' operation is shown, including the URL '/resource', a parameter 'id' with value '1', and a header 'Content-Type' with value 'application/json'. At the bottom right, there are tabs for different client types: 'HTTP', 'Curl', 'C#', 'Java', 'JavaScript', and 'P'. The 'HTTP' tab is selected, showing the 'HTTP request' details: 'GET https://api.contoso.com/echo/resource?id=1', 'Content-Type: application/json', and 'Ocp-Apim-Trace: true'.

# Azure API Management

## Transform your existing services



The screenshot shows the Azure API Management console for a service named 'contoso - Subscriptions'. The left sidebar contains navigation links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, API Management, Quickstart, APIs, Products, Named values, Tags, Analytics, Users, Subscriptions (selected), Groups, Notifications, Notification templates, and Issues. The main content area displays a table of subscriptions with columns: DISPLAY NAME, PRIMARY KEY, SECONDARY KEY, SCOPE, STATE, OWNER, and ALLOW TRACING. The table lists several subscriptions, including 'My subscription key', 'Starter', 'Built-in all-access sub...', and 'API Petstore subscrip...'. Each row shows the corresponding keys, scope, state, owner, and whether tracing is allowed.

DISPLAY NAME	PRIMARY KEY	SECONDARY KEY	SCOPE	STATE	OWNER	ALLOW TRACING
My subscription key	*****	*****	Product: Starter	Active	Administrator	✓
	*****	*****	Product: Platinum	Active	Administrator	✓
	*****	*****	Product: Trial	Active	Administrator	✓
Starter	*****	*****	Product: Starter	Active	John Doe	
Built-in all-access sub...	*****	*****	Service	Active		✓
	*****	*****	Product: Public	Active	Administrator	✓
API Petstore subscrip...	*****	*****	API: Petstore	Active		

# Tiers & Pricing

**Basic**

**Standard**

**Premium**

**Developer**

**Consumption**

**Isolated**

# Tiers & Pricing

	Consumption	Developer	Basic	Standard	Premium	Isolated
Price	\$0.035/10k	\$48.04	\$147.17	\$686.72	\$2795.17	TBA
Cache	External Only	10-Mb	50-Mb	1-Gb	5-Gb	5-Gb
Scale-Out	N/A	1	2	4	12/region	12/region
SLA	99.95%	No	99.95%	99.95%	99.99%	99.99%
Isolation	Shared	Private	Private	Private	Private	Private
Developer Portal	No	Yes	Yes	Yes	Yes	Yes
Azure AD Integration	No	Yes	No	Yes	Yes	Yes
Virtual Network	No	Yes	No	No	Yes	Yes
Multi-Region Deployment	No	No	No	No	Yes	Yes
Self-Hosted Gateway	No	Yes	No	No	Yes	Yes
Max Throughput	N/A	500	1,000	2,500	4,000	4,000
Compute Isolation	No	No	No	No	No	Yes





**‘Tis hatched, and shall be so.**

# API Management Demonstration

Better once than  
never, for never  
too late.



# Questions?

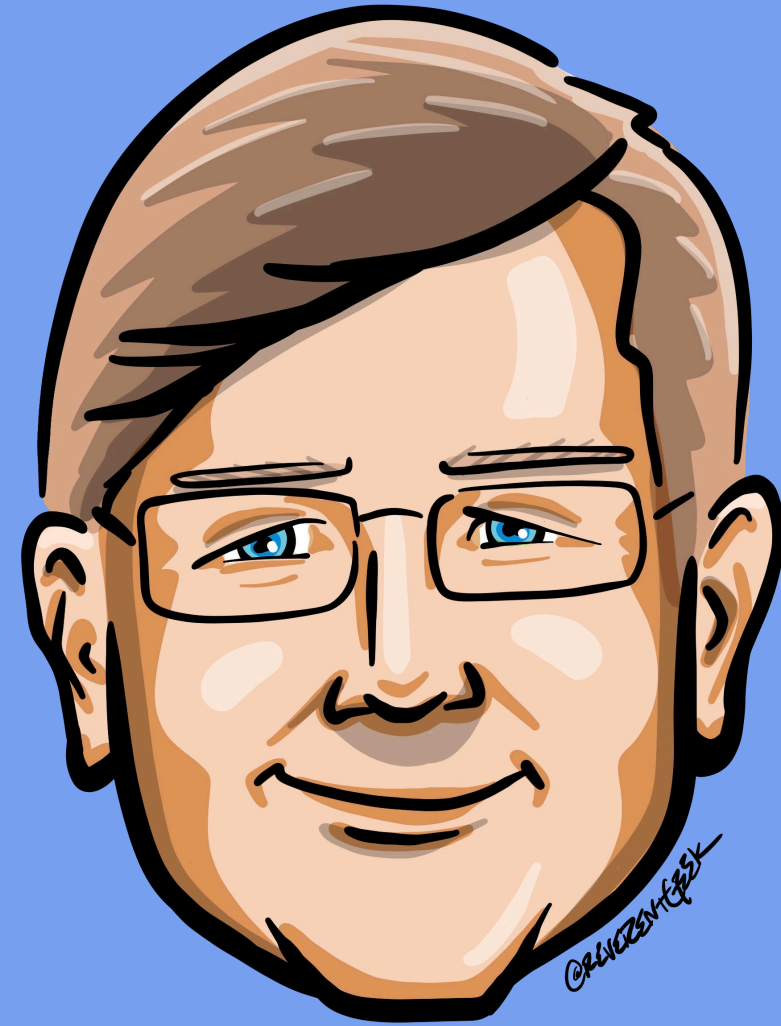
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*Thank you!*