

# Microsoft Azure Innovation Challenge 2022

INNOVATION CHALLENGE #1: DEPLOY AND MANAGE APIS, OPERATIONS,  
POLICIES AND OTHER ARTIFACTS AT SCALE IN AZURE API MANAGEMENT



TEAM-RAPTORZ

DEEPAN

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# Microsoft Azure API Management



AZURE API MANAGEMENT IS A HYBRID, MULTICLOUD MANAGEMENT PLATFORM FOR APIS ACROSS ALL ENVIRONMENTS. AS A PLATFORM-AS-A-SERVICE, API MANAGEMENT SUPPORTS THE COMPLETE API LIFECYC

## Unlocking legacy assets

APIs are used to abstract and modernize legacy backends and make them accessible from new cloud services and modern applications. APIs allow innovation without the risk, cost, and delays of migration

## API-centric app integration

APIs are easily consumable, standards-based, and self-describing mechanisms for exposing and accessing data, applications, and processes. They simplify and reduce the cost of app integration

## Multi-channel user experiences

APIs are frequently used to enable user experiences such as web, mobile, wearable, or Internet of Things applications. Reuse APIs to accelerate development and ROI

## B2B integration

APIs exposed to partners and customers lower the barrier to integrate business processes and exchange data between business entities. APIs eliminate the overhead inherent in point-to-point integration

# API Management Features



- 01 Package and publish APIs to developers and partners

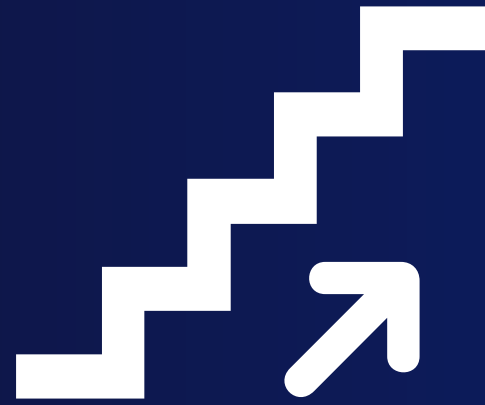
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- 02 Build an API façade for existing backend services

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- 03 Gain insights into API usage and health

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- 04 On-board developers via a self-service portal

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- 05 Ramp-up developers with docs, samples, and API console

# Essence of API Management



FOOT BOARD

Hide backends from frontends

Move backends without impacting frontends

Re-architect backends without impact on frontends

Expose a subset of backend capabilities

Aggregate or slice backends into APIs

Modernize backends

legacy

Decouple frontend developers with mocks



Front door

Single point of ingress

Route

Authenticate

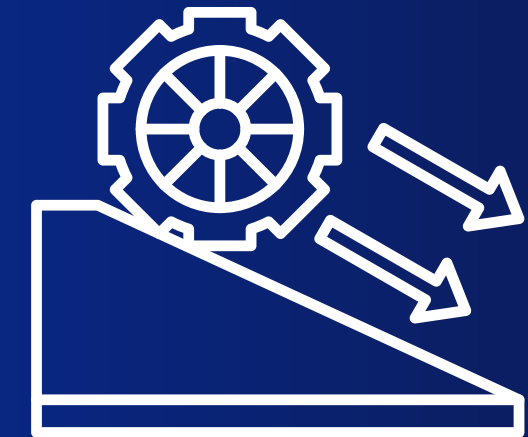
Authorize

Throttle

Transform

Trace

Meter



Frictionless consumption

Self-service user onboarding

Discover APIs

Learn how to use APIs

Try APIs without writing any code

Request and receive access to APIs

Download API specs, samples, and SDKs

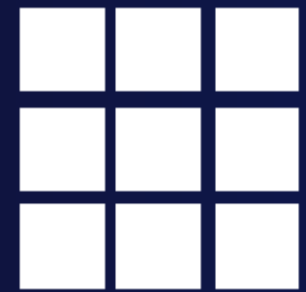
Interact with the API provider

Get usage reports

# ARCHITECTURE



DEVELOPER  
PORTAL



APPS



PROXY



BACKEND



PUBLISHER /  
ADMIN

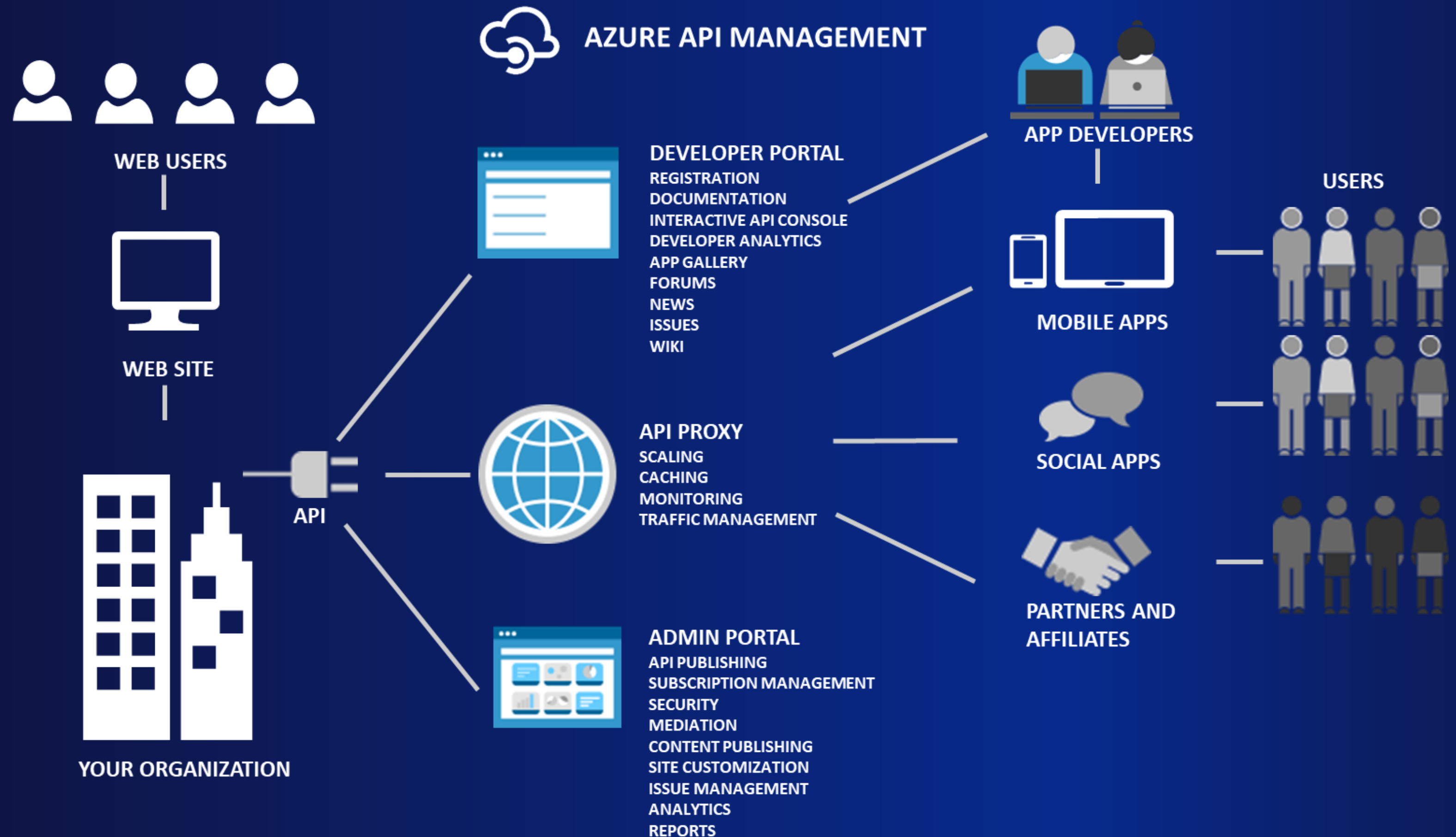


PUBLISHER  
PORTAL

WINDOWS AZURE  
API MANAGEMENT

Can be hosted  
anywhere: public  
cloud or on-  
premises

# HIGH LEVEL ARCHITECTURE





# Demonstration

Git hub link

<https://github.com/TWILIGHTCLOUDCODERZ/Microsoft-Azure-Innovation-Challenge>

Video Link

<https://www.youtube.com/watch?v=OZfdOWxpM4w>

WebApp

<https://raptorzapi.developer.azure-api.net/>





Thanks for the opportunity to learn and explore new technology



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