

# IBM Code Day 2018

CODE. CONTENT. COMMUNITY.

SAI VENNAM - DEVELOPER ADVOCATE - IBM

UNLEASH THE FULL POTENTIAL  
OF YOUR SERVERLESS APIs

#IBMCODEDAY

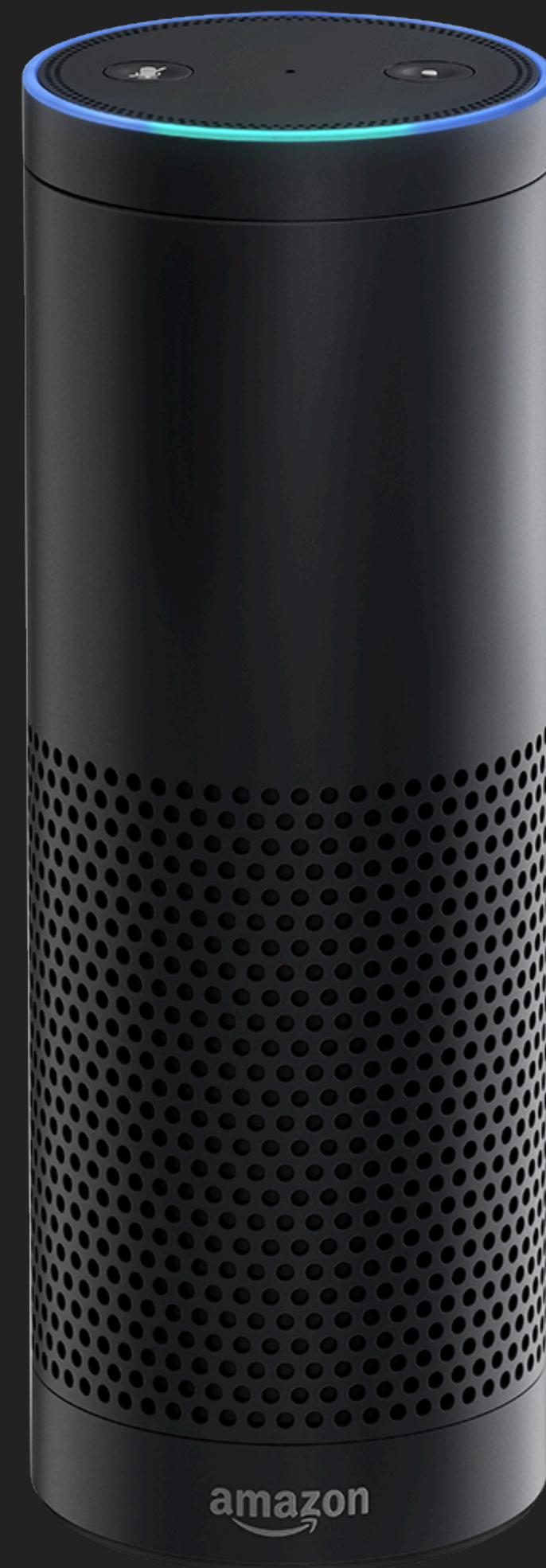
```
    if _operation == "MIRROR_X":  
        mirror_mod.use_x = False  
        mirror_mod.use_y = True  
        mirror_mod.use_z = False  
    elif _operation == "MIRROR_Z":  
        mirror_mod.use_x = False  
        mirror_mod.use_y = False  
        mirror_mod.use_z = True  
  
    #selection at the end -add back the deselected mirror modifier object  
    mirror_ob.select= 1  
    modifier_ob.select= 0  
    print("Selected "+Scr(modifier_ob)) # modifier ob is the active ob  
    delmirror_ob.select = 0  
    base = bpy.context.selected_objects[0]
```



@sai\_vennam

# What exactly is serverless?

# SERVERLESS USECASES



# INTERNET OF THINGS

# COST OF EXECUTION

Basic Cloud Functions Rate:

\$0.000017 per second of execution, per GB of memory allocated

| ACTION EXECUTION TIME | ACTION MEMORY | EXECUTIONS PER MONTH | COST PER MONTH |
|-----------------------|---------------|----------------------|----------------|
| 500ms                 | 128MB         | 5,000,000            | Free           |
| 500ms                 | 256MB         | 5,000,000            | \$3.83         |
| 500ms                 | 512MB         | 5,000,000            | \$14.45        |
| 1,000ms               | 128MB         | 10,000,000           | \$14.45        |
| 1,000ms               | 256MB         | 10,000,000           | \$35.70        |
| 1,000ms               | 512MB         | 10,000,000           | \$78.20        |

## Getting Started ^

[Overview](#)[Pricing](#)[Concepts](#)[Integrations](#)[CLI](#)[iOS SDK](#)[Documentation](#)[Manage](#)[Develop](#)[Monitor](#)[APIs](#)

# Getting Started with IBM Cloud Functions

IBM Cloud Functions (based on Apache OpenWhisk) is a Fully Managed Function-as-a-Service (FaaS) platform which executes functions in response to events and costs nothing when not in use.

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## New on GitHub

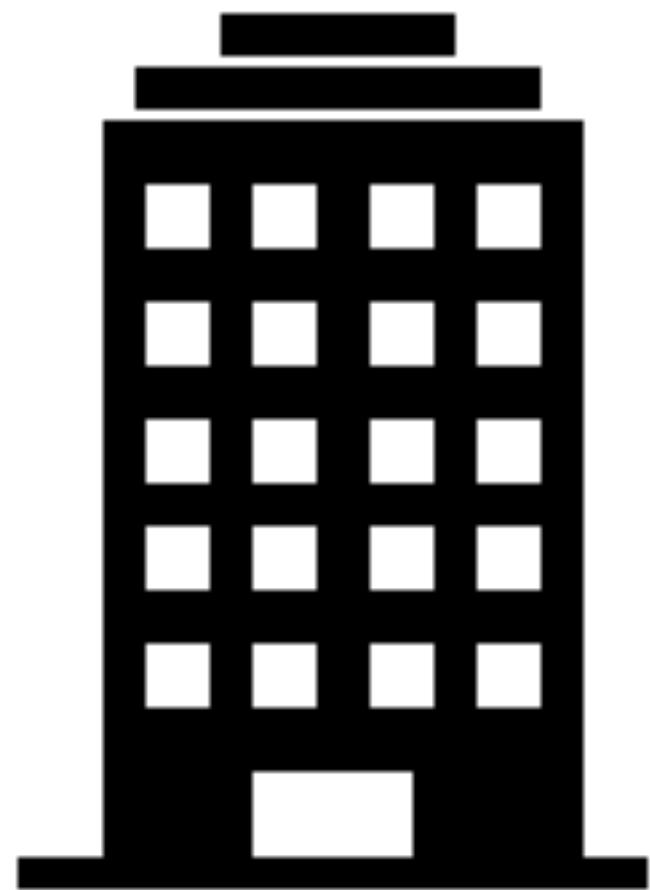
Try Composer for building serverless applications and workflows, 100% serverless. Available now as a Tech Preview from IBM Research.

## Save costs, scale and integrate.



# Taking your serverless function into production

# quick intro to enterprise architectures



Traditional  
on-premise



## Traditional on-premise

- ▶ Powerful and full-featured
- ▶ Often large and clunky
- ▶ Hard to scale efficiently
- ▶ Generally all a single language
- ▶ Difficult to onboard devs

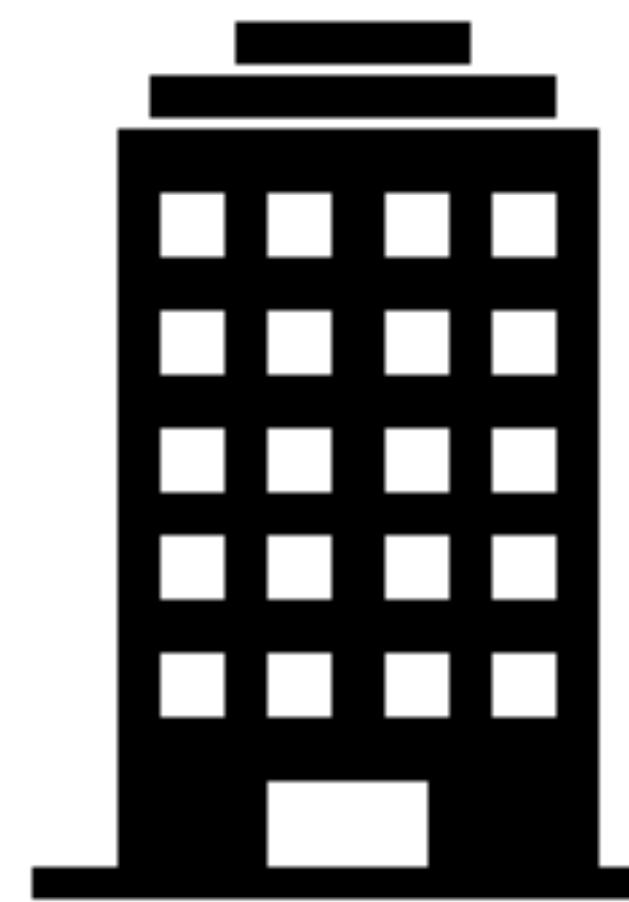


Cloud-Native  
Modern



## Cloud-Native Modern

- ▶ Powerful and full-featured
- ▶ Effective at all scales
- ▶ Easy to scale individual components
- ▶ Promotes agile development
- ▶ Choose the right language for the job



Traditional  
on-premise



Cloud-Native  
Modern



Hybrid Architecture

1

## Shipments Completed

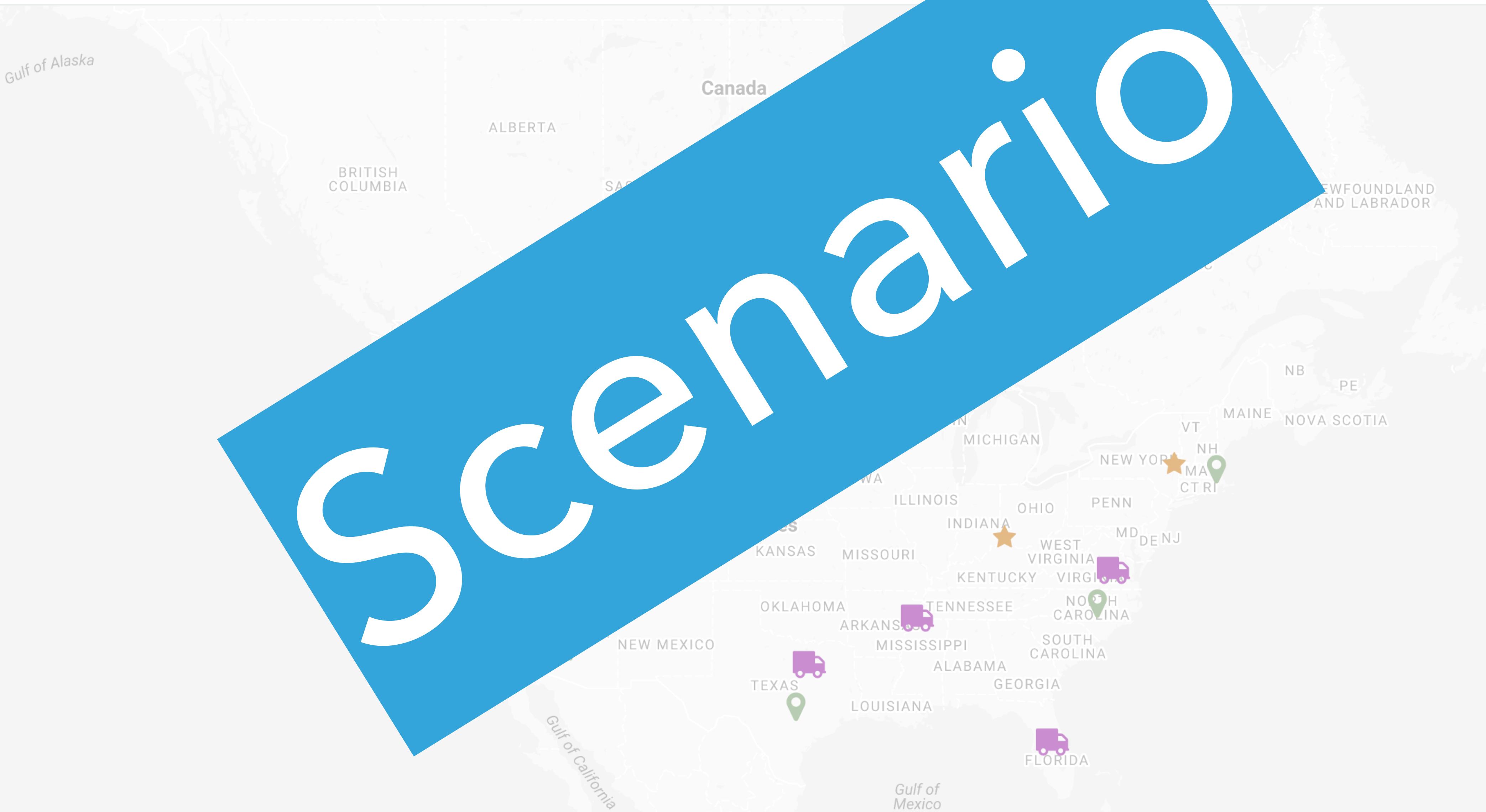
5

## Active Shipments

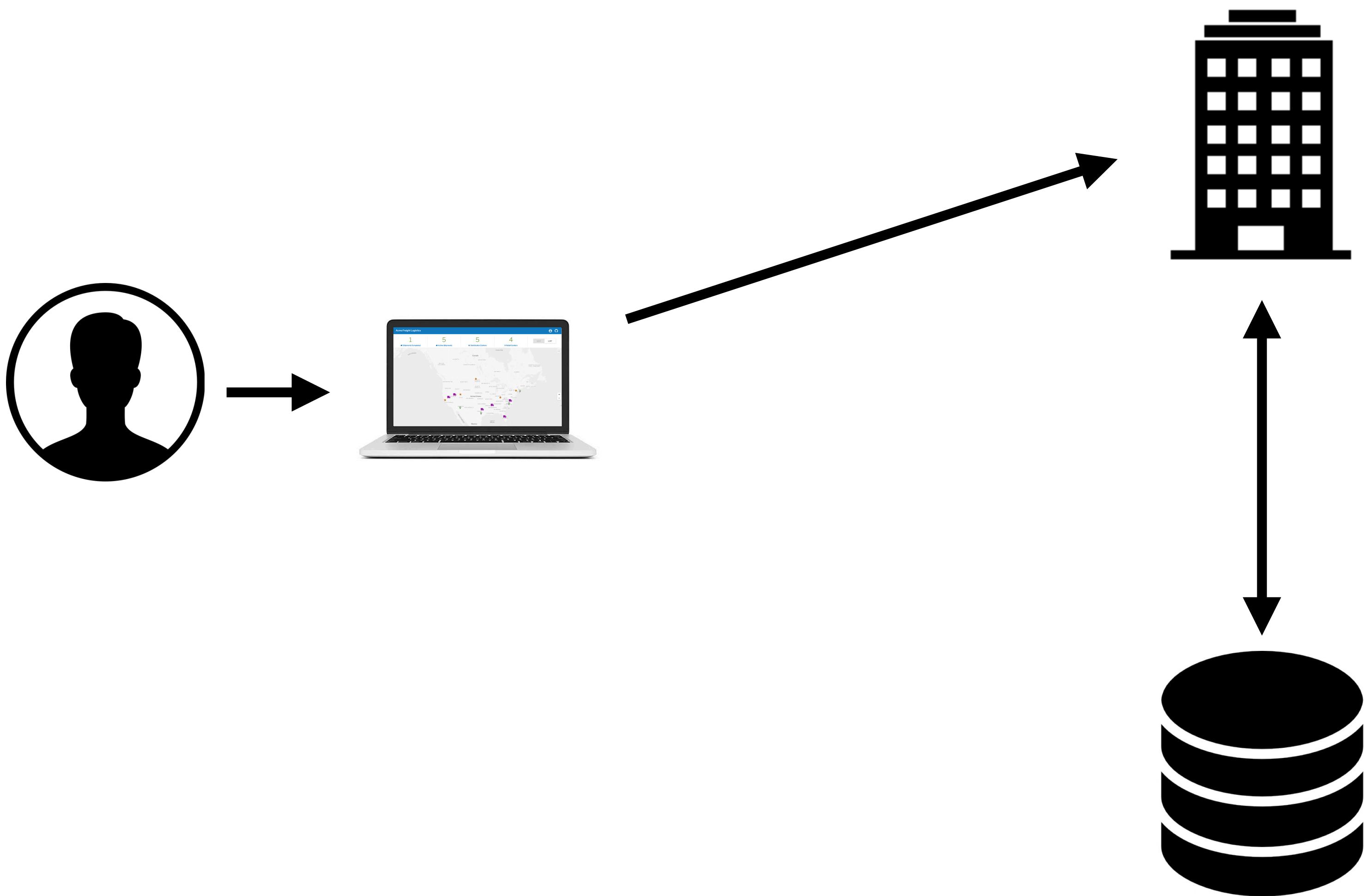
5

## ★ Distribution Centers

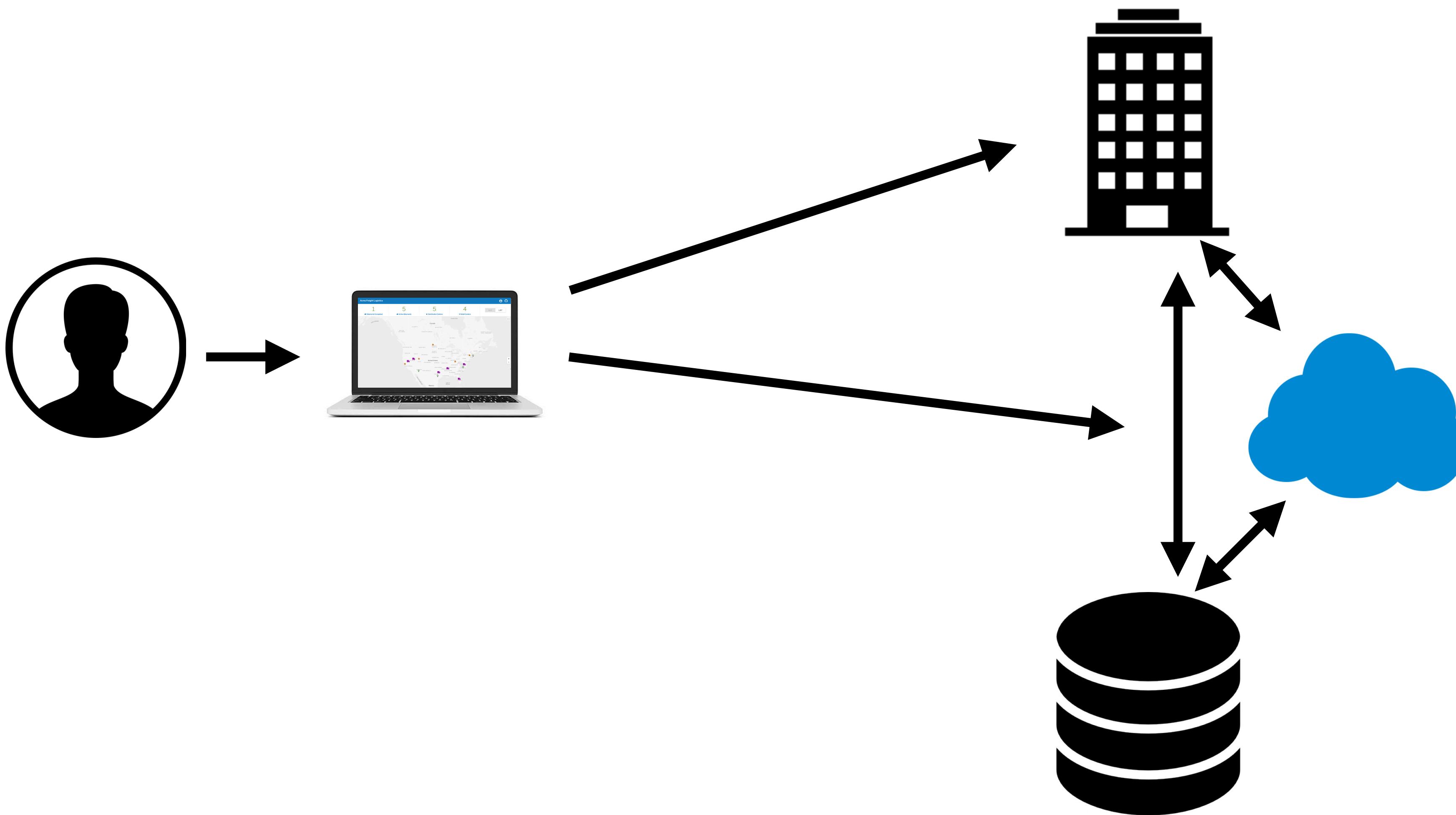
## LIST



# STANDARD ARCHITECTURE



# HYBRID ARCHITECTURE MESS



# CONCERNS

Rate Limiting

Security

User Authentication

Analytics

API documentation

# CONCERNS

Rate Limiting

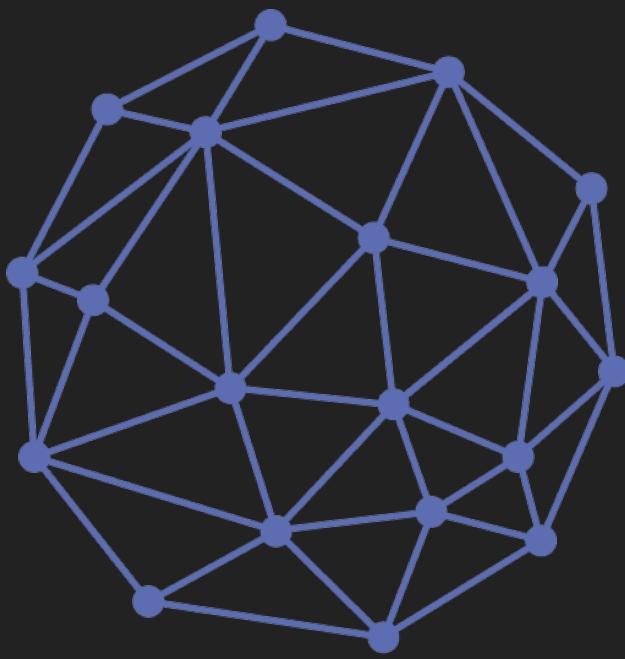
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Analytics

API documentation

# SOLUTION - API MANAGEMENT



IBM API Connect

## Getting Started ^

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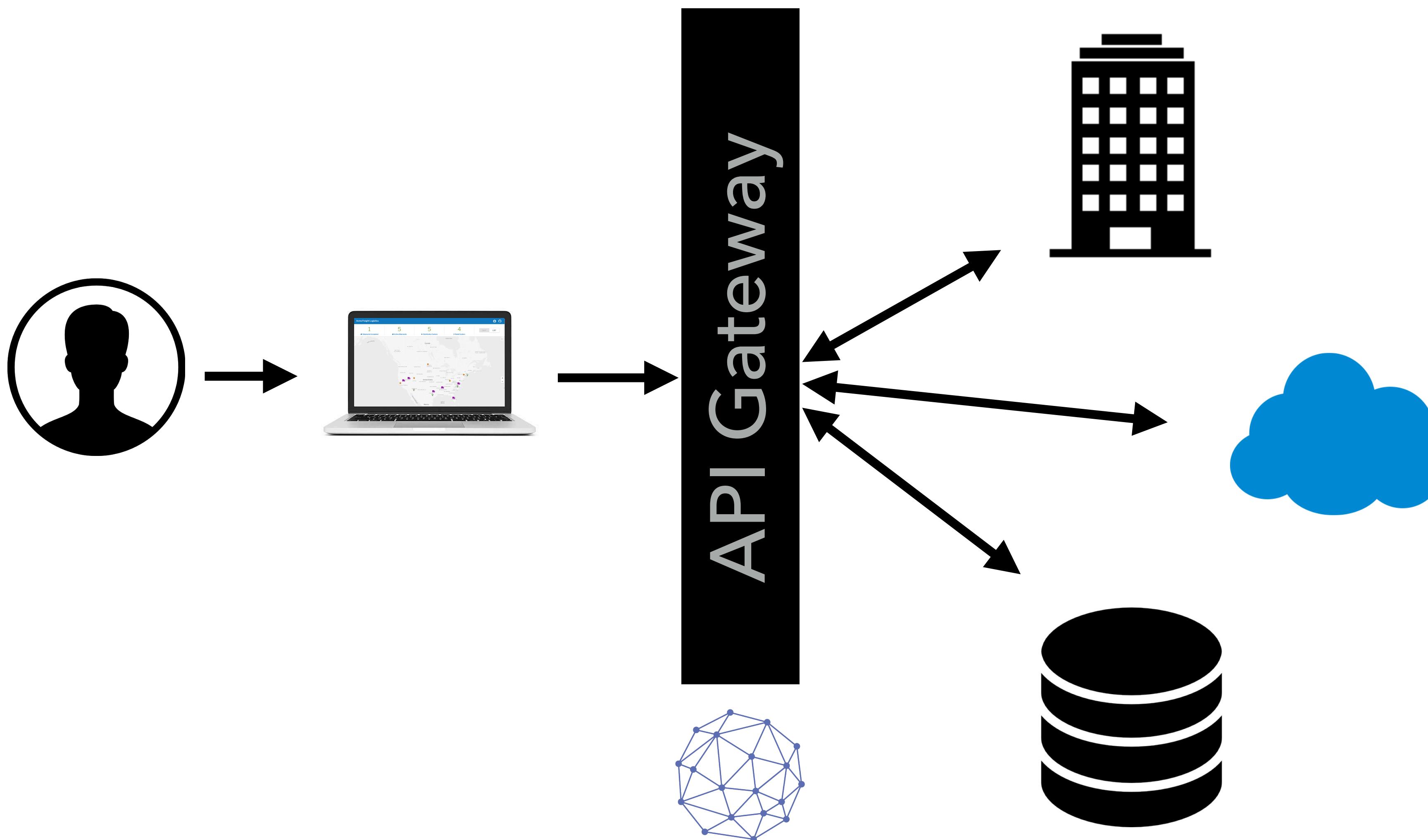
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## Save costs, scale and integrate.



# CLEAN IT UP WITH API MANAGEMENT



# CONCERNS

Rate Limiting

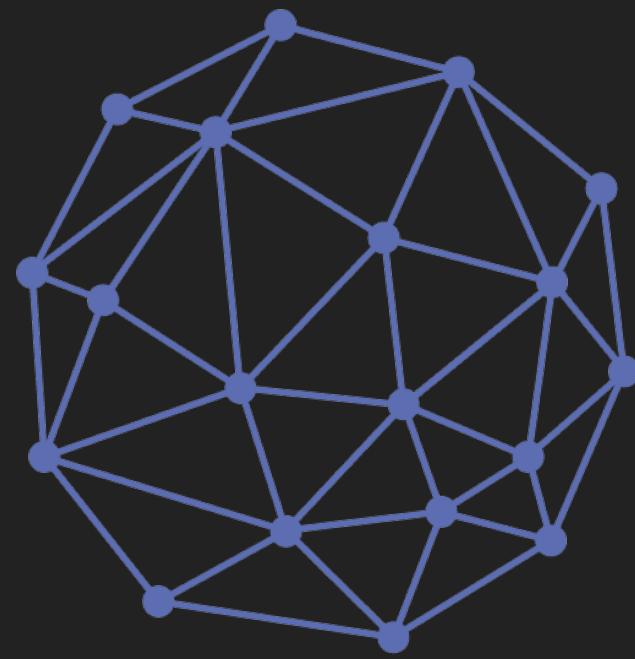
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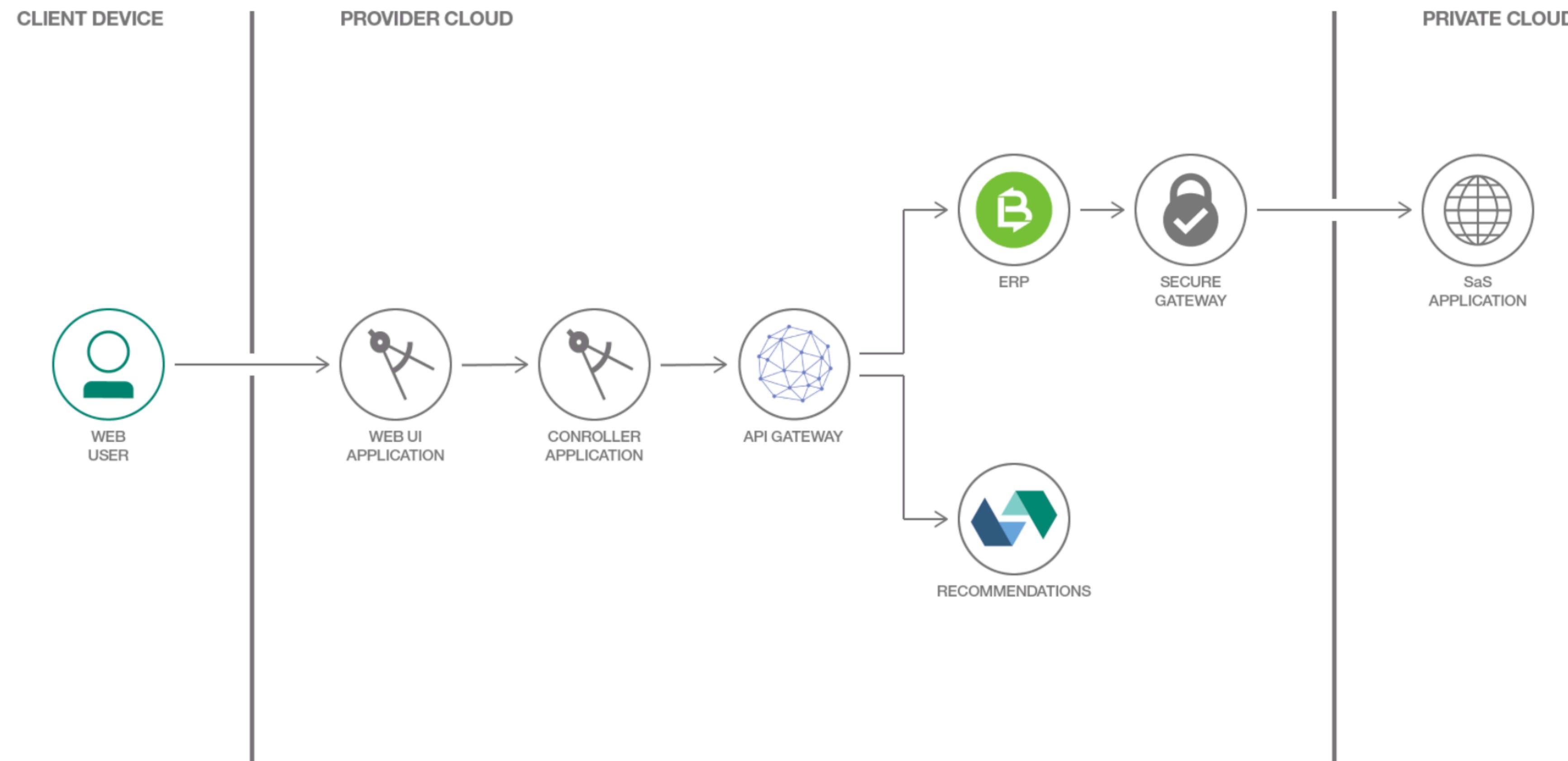
API documentation

# SOLUTION - API MANAGEMENT



IBM API Connect

# HYBRID ARCHITECTURE – STEPS IN THE RIGHT DIRECTION



Learn more about Acme Freight at [github.com/IBM/acme-freight](https://github.com/IBM/acme-freight)

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Thanks!

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[ibmcodeday.mybluemix.net/](http://ibmcodeday.mybluemix.net/)



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<https://developer.ibm.com/code/>



Signup for IBM Cloud  
<https://bluemix.net>



<https://www.ibm.com/watson/products-services/>

## Code & instructions

<https://github.com/IBMDevConnect>

<https://github.com/IBM>

<https://github.com/IBM-Cloud>

<https://ibm-cloud.github.io/#/>

<http://ibm.github.io>

<https://github.com/watson-developer-cloud>

<https://github.com/ibm-bluemix-mobile-services>



## developerWorks

<https://developer.ibm.com/in/>

<https://developer.ibm.com/tv/>

## Recipes

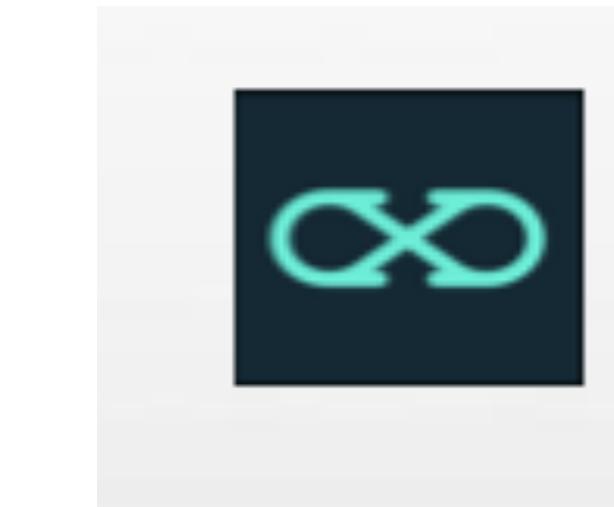
<https://developer.ibm.com/recipes/>



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