

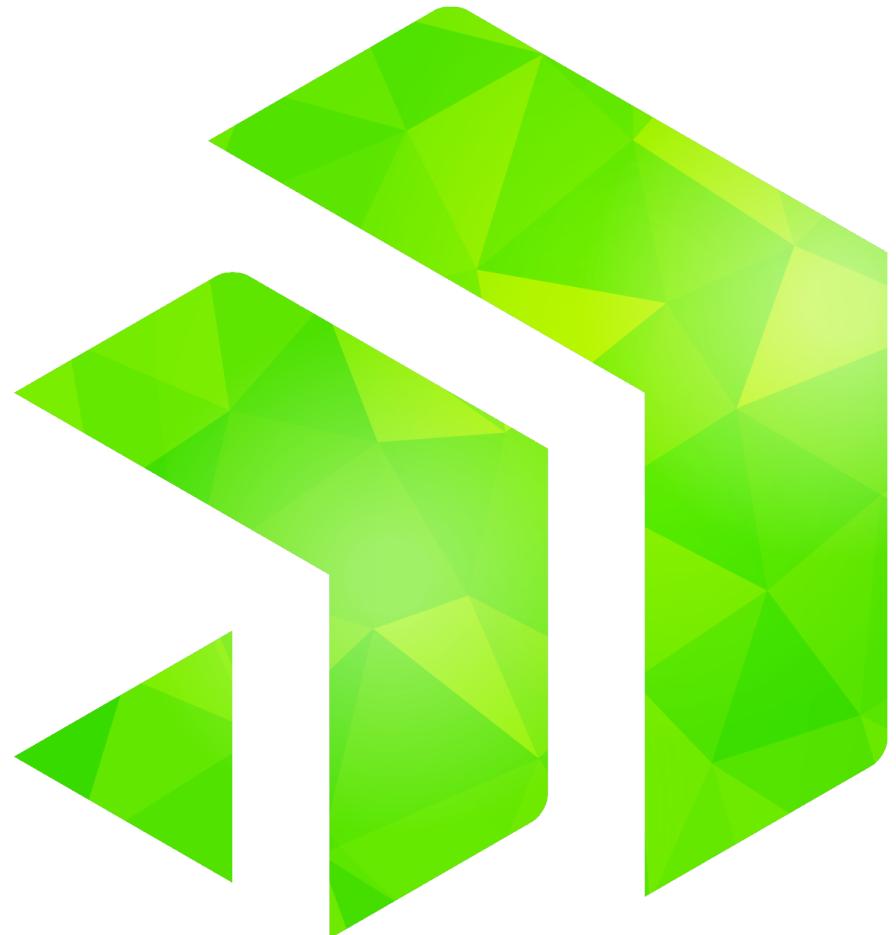


Get Started With Serverless



TJ VanToll

Principal Developer Advocate



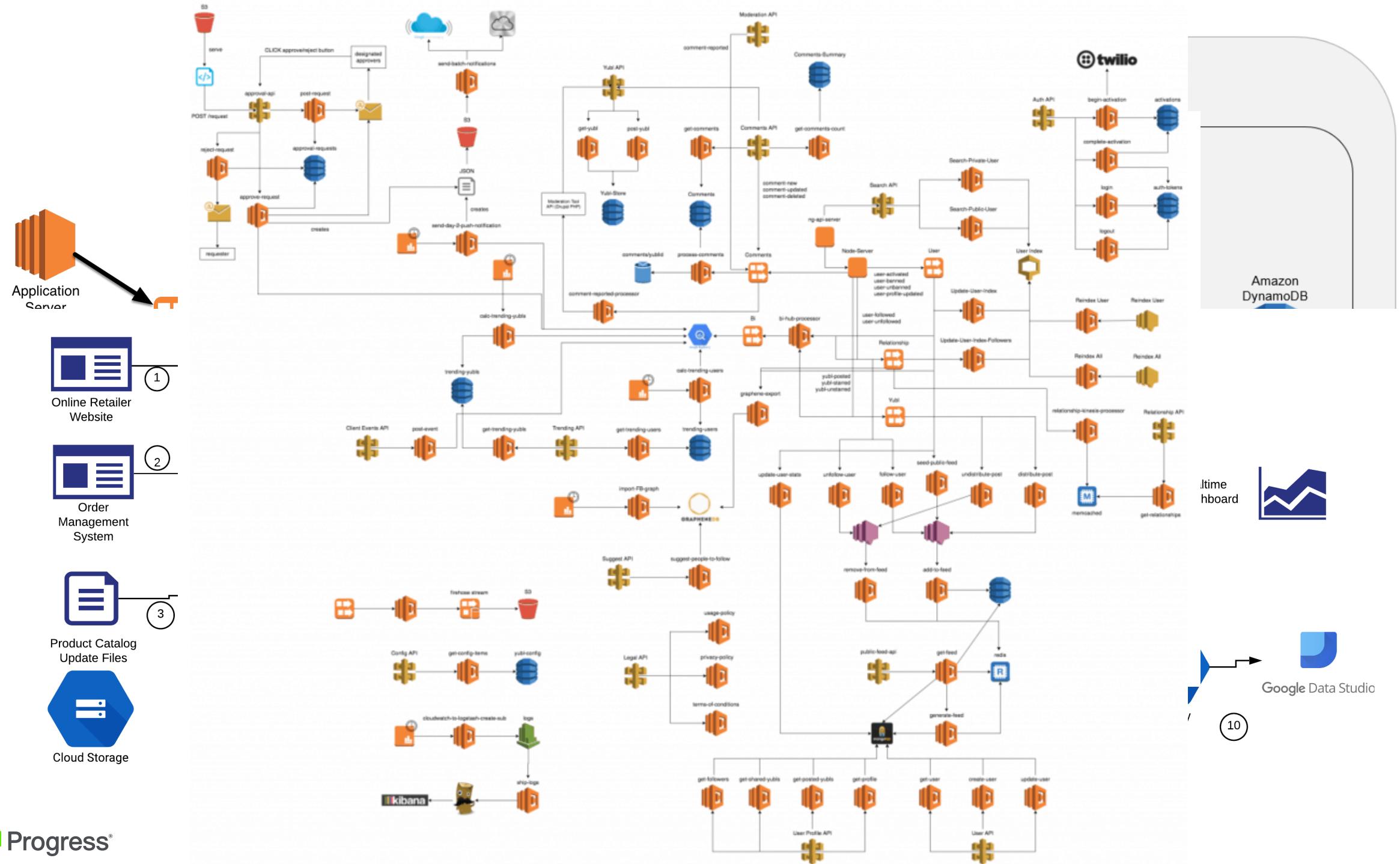
Serverless 101

jQuery *user interface*

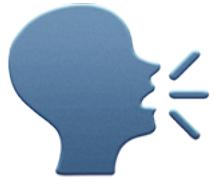
JS







Agenda



- Introduce serverless
 - 30 minutes



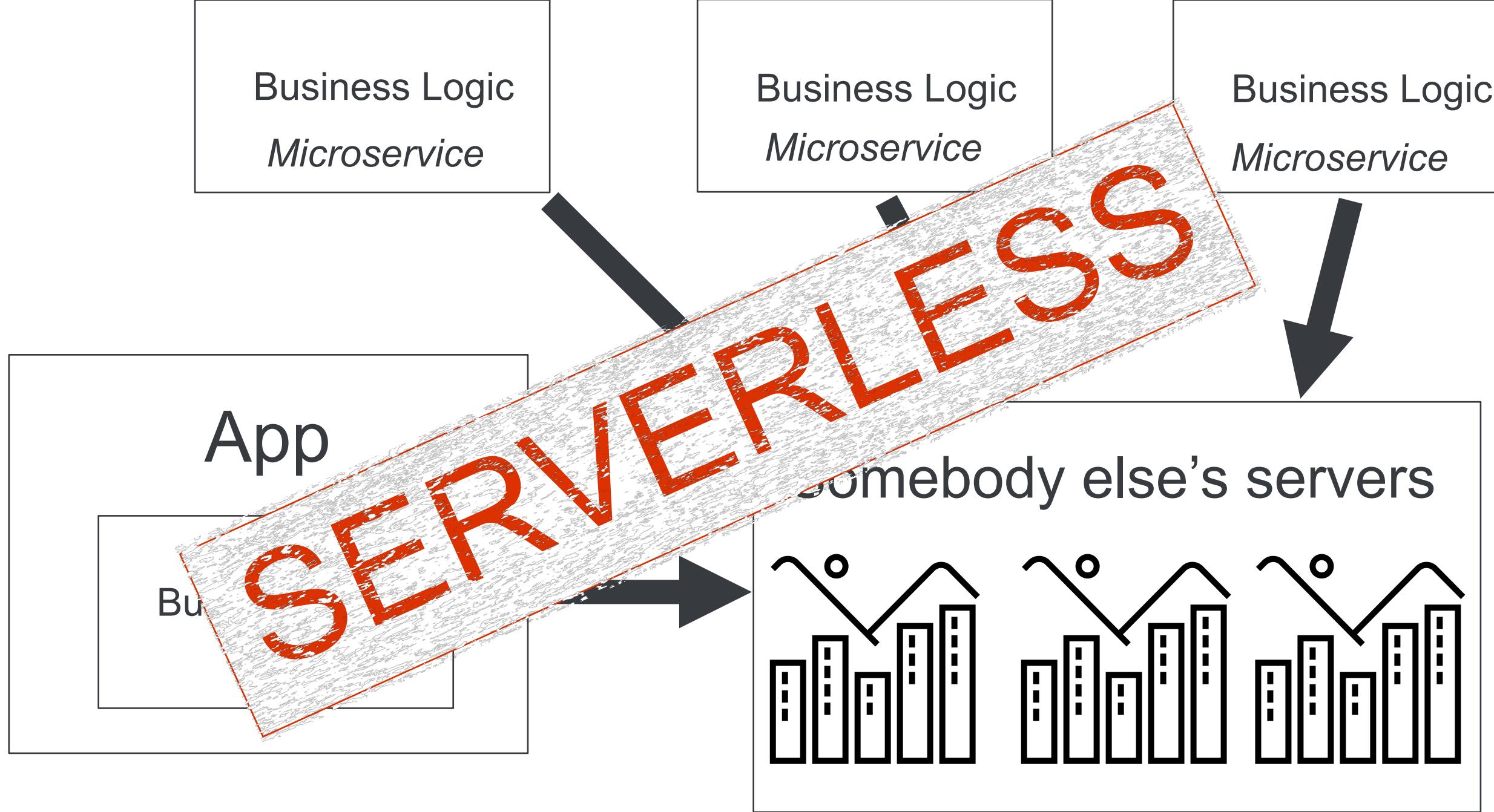
- Demos!
 - 15 minutes



- Questions?
 - ? minutes

What is serverless?





Serverless is an execution model where the cloud provider is responsible for executing code by dynamically allocating resources

5 Benefits of Serverless



- 1) Reduced DevOps workload



- 2) Scalability



- 3) Pay as you go



- 4) Decoupled business logic



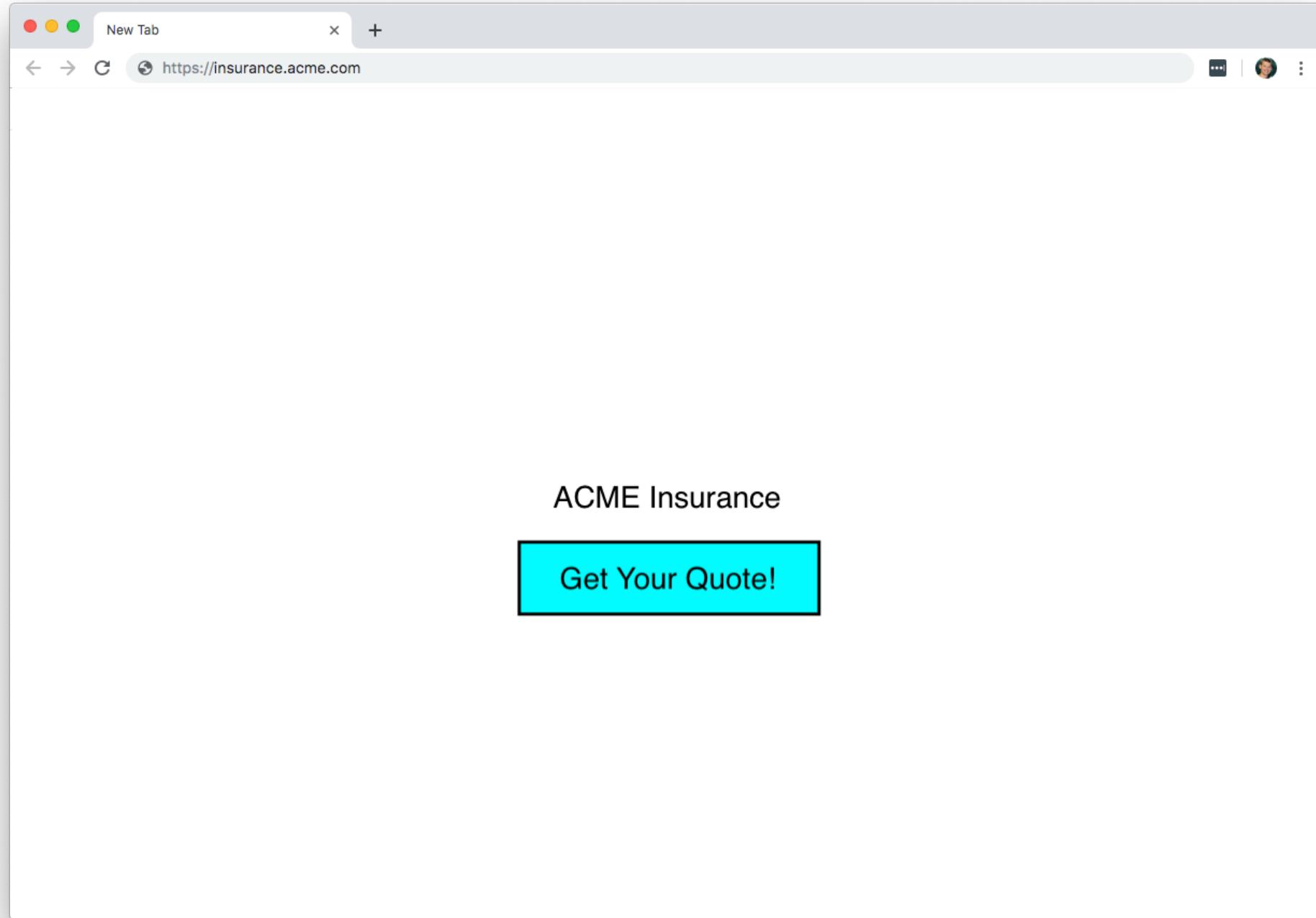
- 5) Quick deployments and updates



ACME Insurance









2 years of my life

1 paying customer

5 Benefits of Serverless



- 1) Reduced DevOps workload



- 2) Scalability



- 3) Pay as you go



- 4) Decoupled business logic



- 5) Quick deployments and updates

~~Serverless would have
saved ACME Insurance~~

Serverless would have
helped ACME Insurance fail
with less bad.

5 Benefits of Serverless



- 1) Reduced DevOps workload



- 2) Scalability



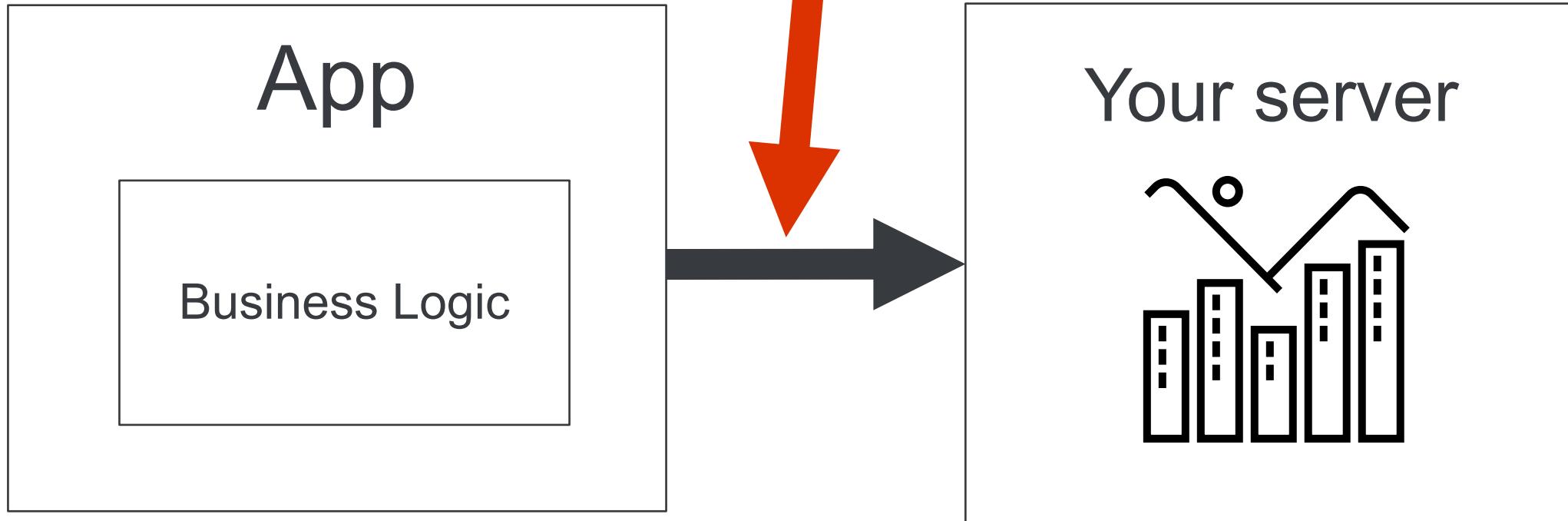
- 3) Pay as you go



- 4) Decoupled business logic



- 5) Quick deployments and updates



5 Benefits of Serverless



- 1) Reduced DevOps workload



- 2) Scalability



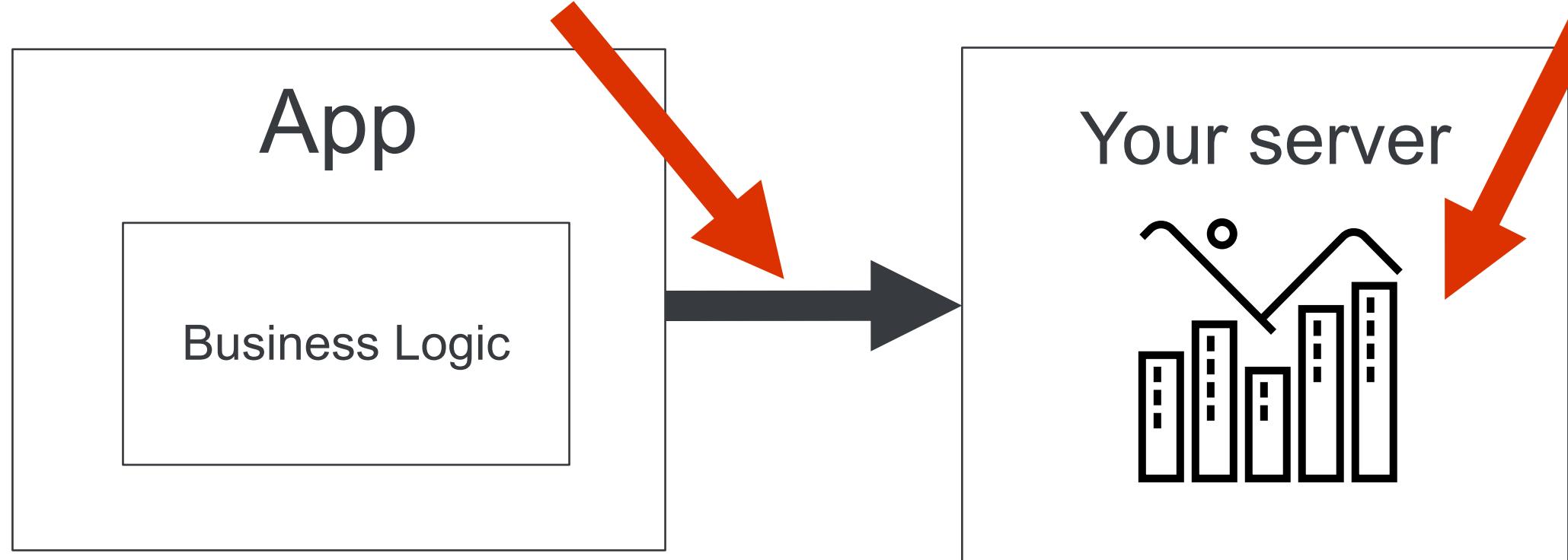
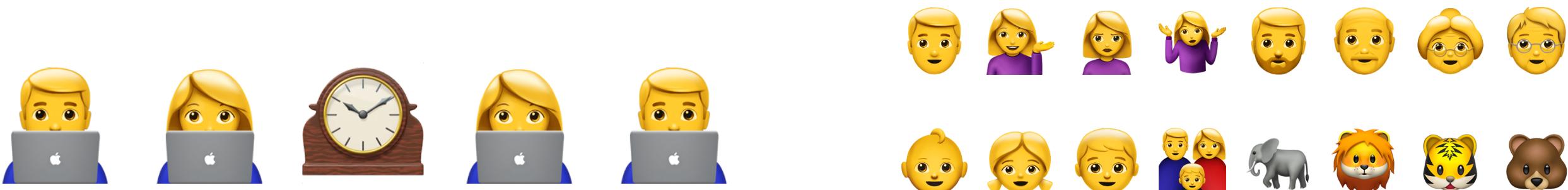
- 3) Pay as you go

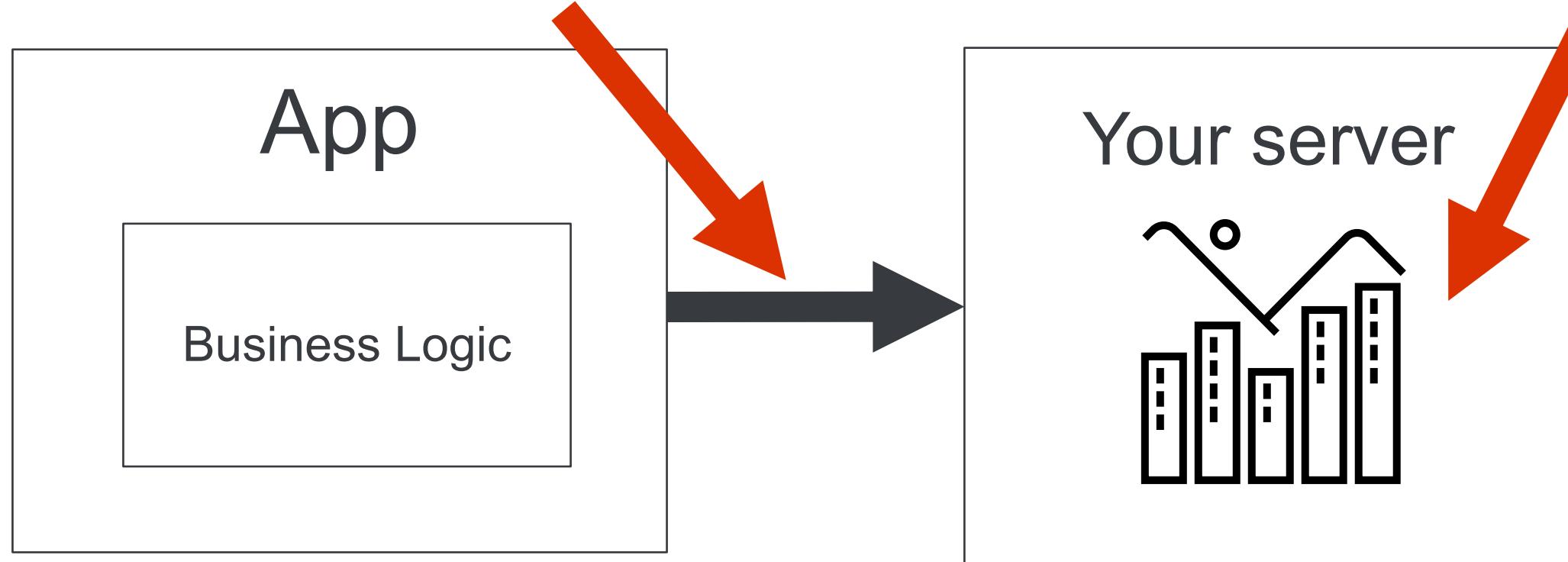
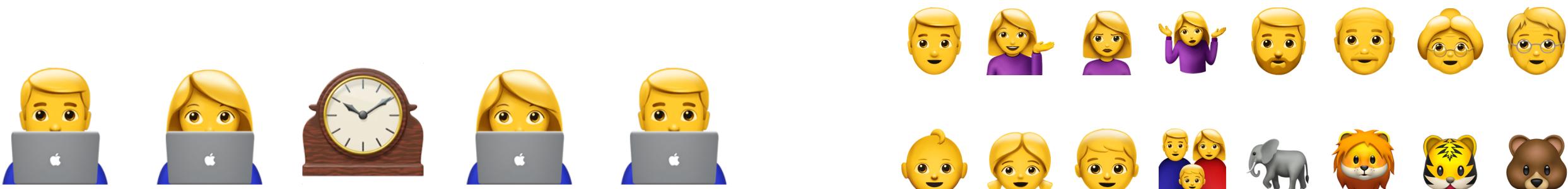


- 4) Decoupled business logic



- 5) Quick deployments and updates





5 Benefits of Serverless



- 1) Reduced DevOps workload



- 2) Scalability



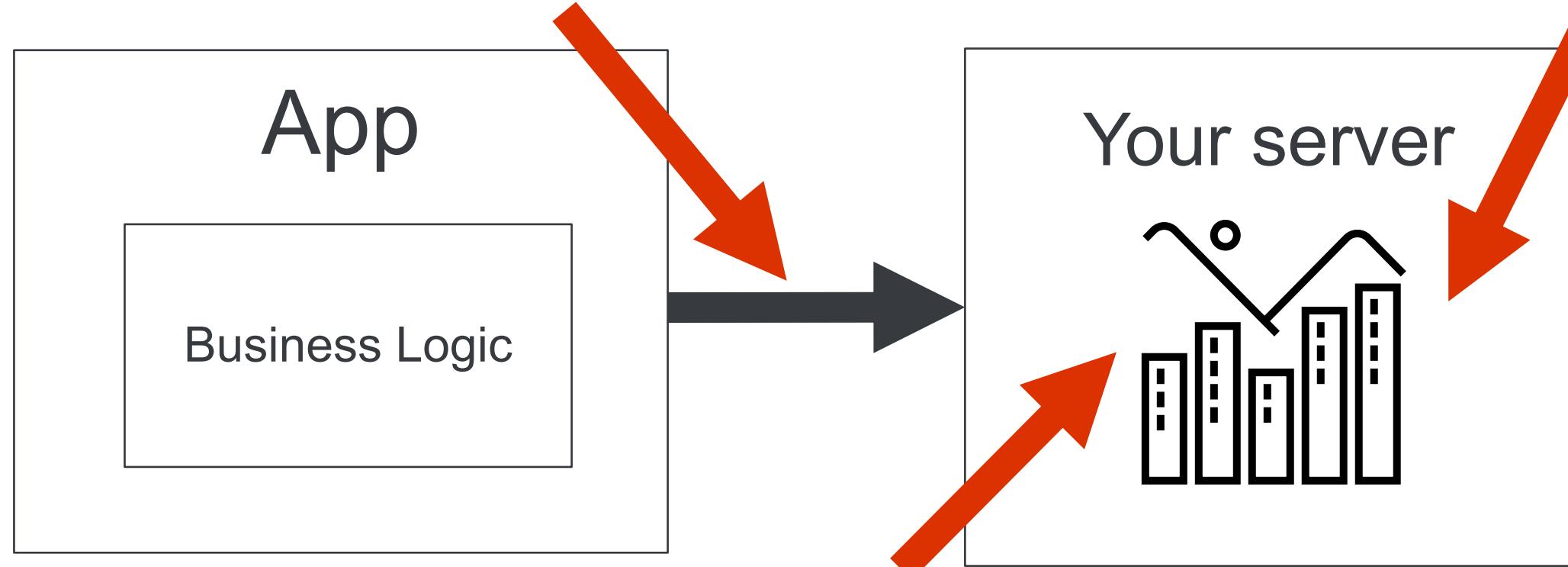
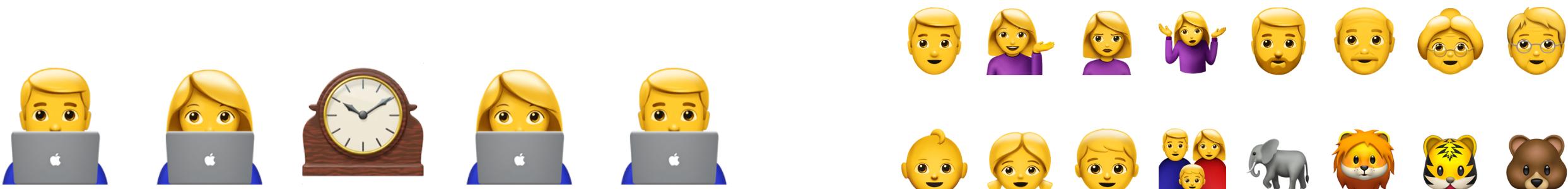
- 3) Pay as you go



- 4) Decoupled business logic



- 5) Quick deployments and updates



5 Benefits of Serverless



- 1) Reduced DevOps workload



- 2) Scalability



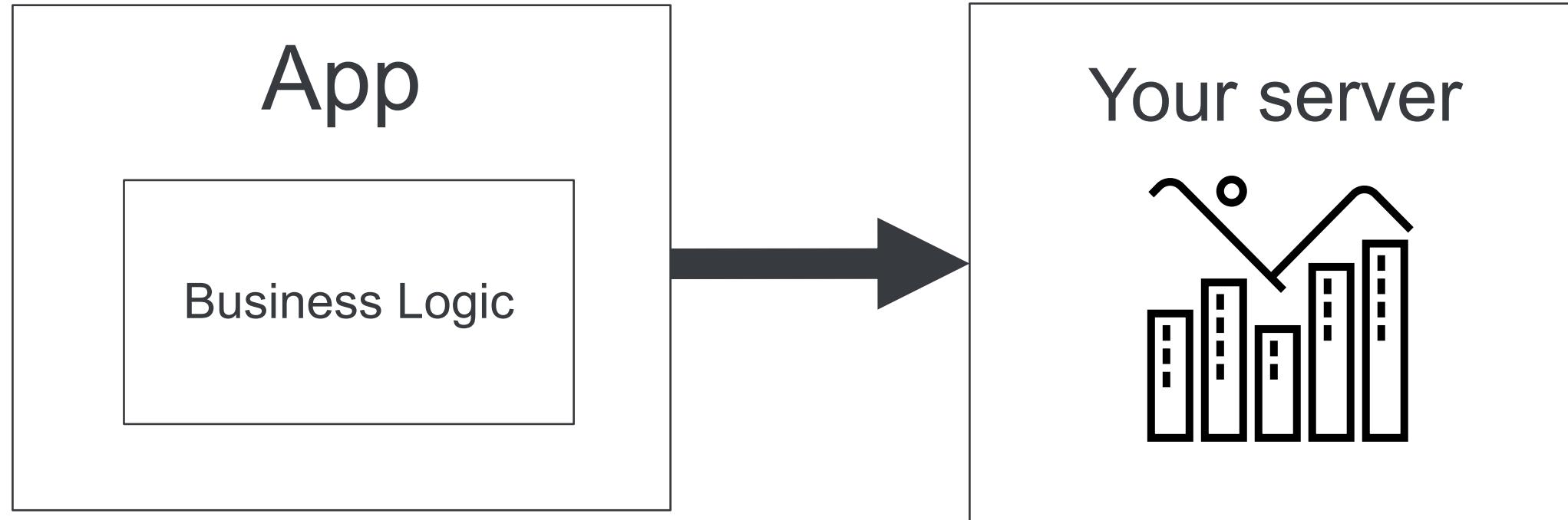
- 3) Pay as you go



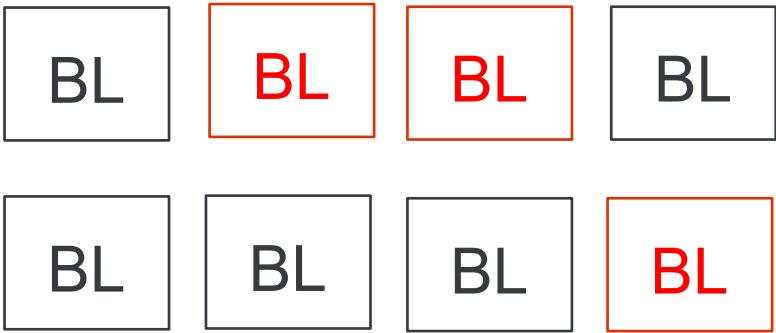
- 4) Decoupled business logic



- 5) Quick deployments and updates



App



Your server



5 Benefits of Serverless



- 1) Reduced DevOps workload



- 2) Scalability



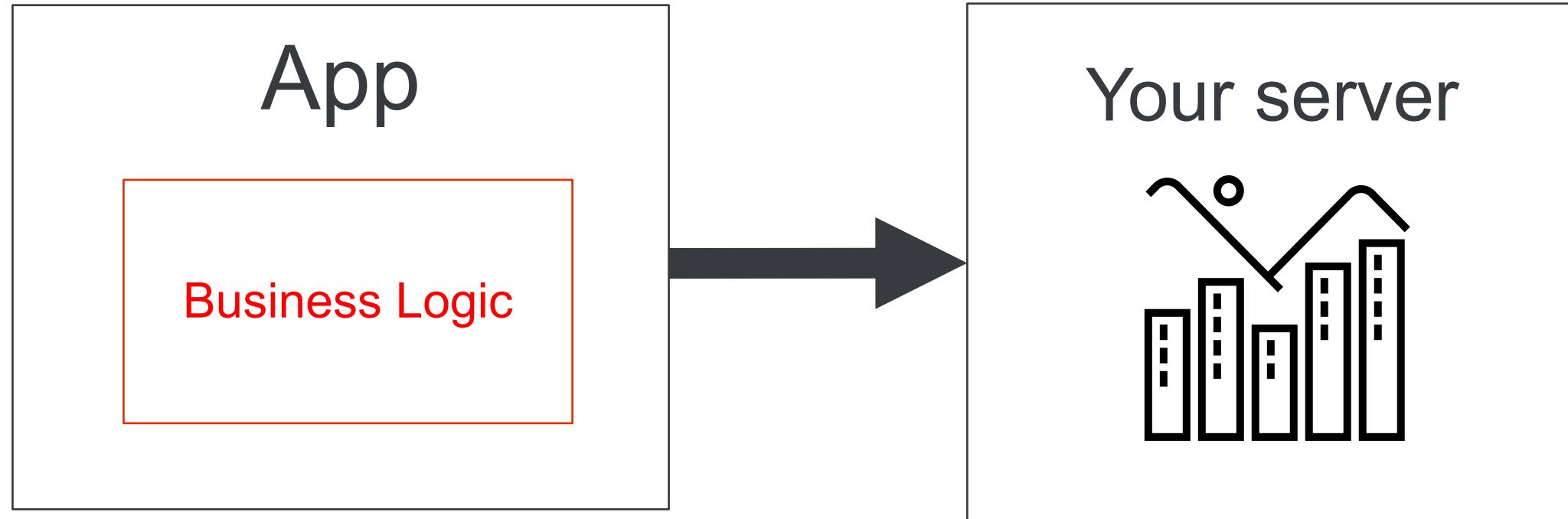
- 3) Pay as you go

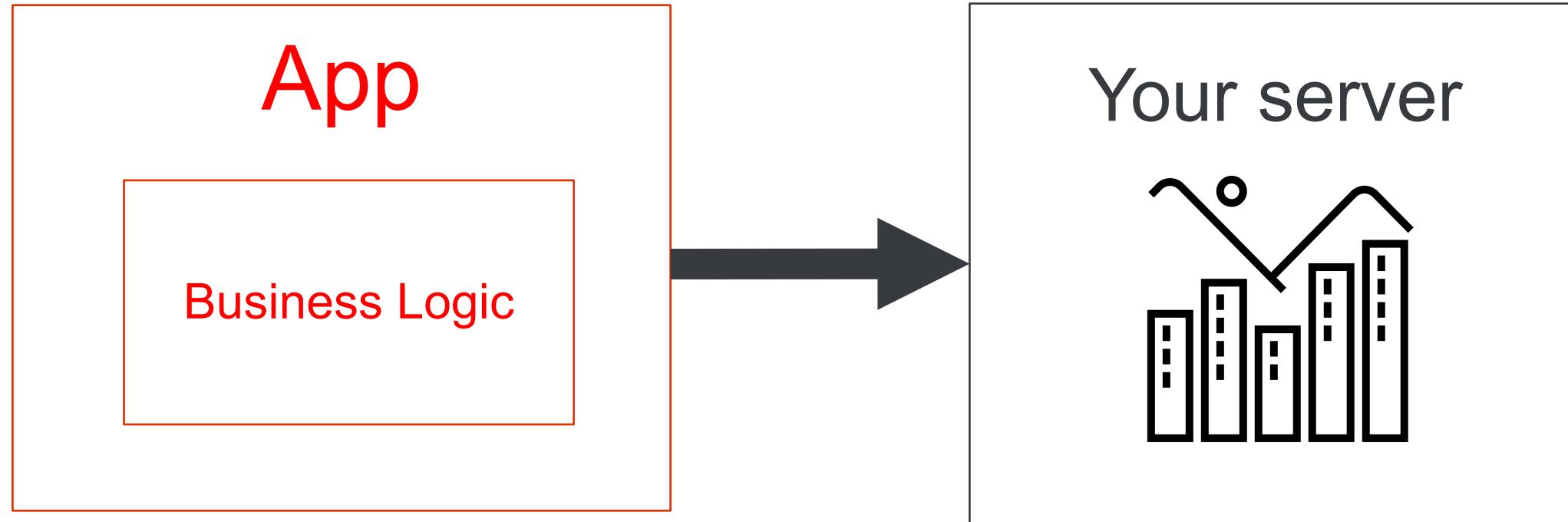


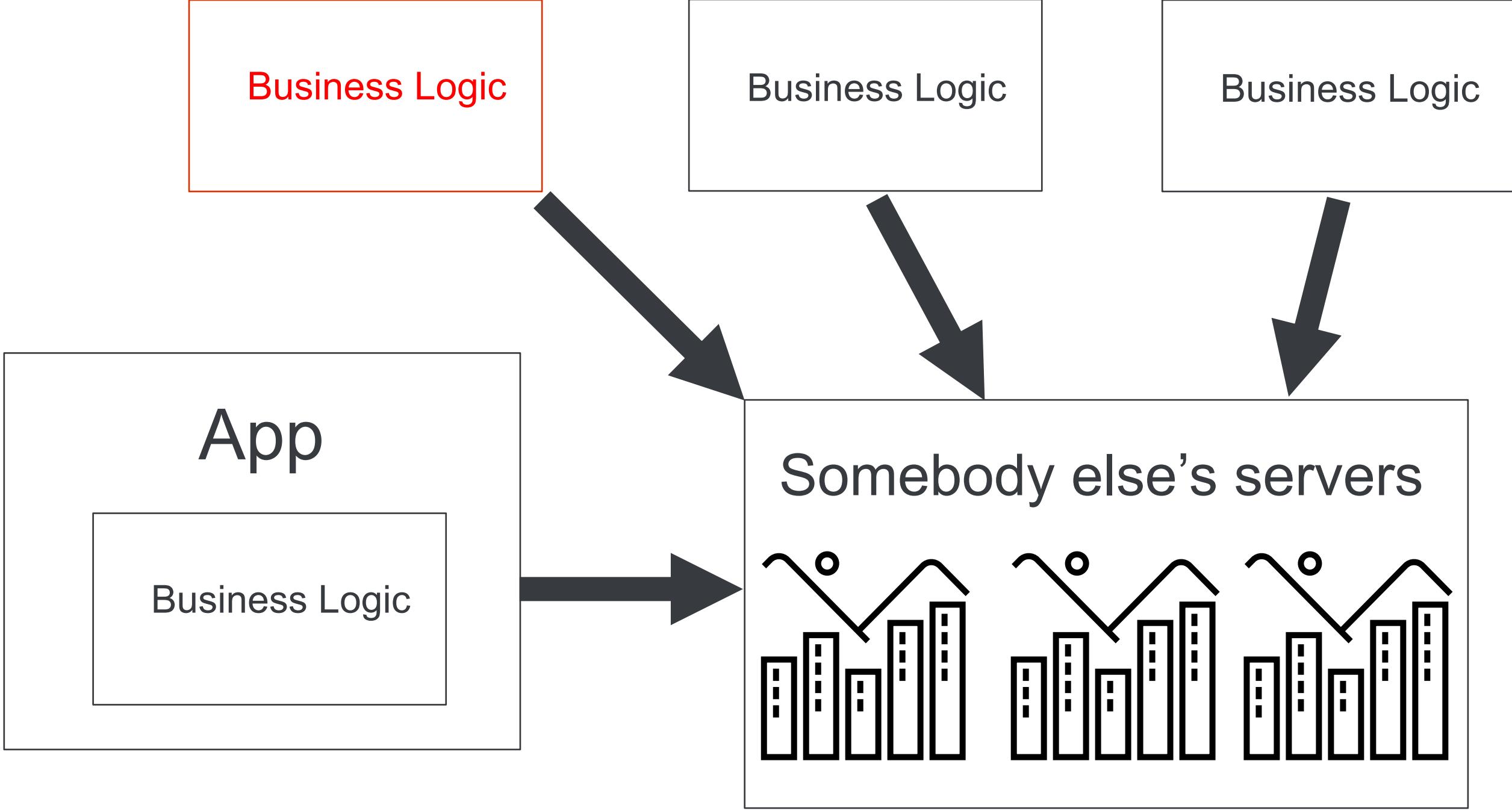
- 4) Decoupled business logic



- 5) Quick deployments and updates







5 Benefits of Serverless



- 1) Reduced DevOps workload



- 2) Scalability



- 3) Pay as you go



- 4) Decoupled business logic



- 5) Quick deployments and updates

Downsides to Serverless



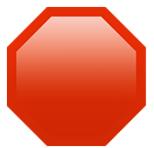
- 1) Pricing is not transparent, and can fluctuate



- 2) Risk of vendor lock in



- 3) Debugging and troubleshooting can be painful



- 4) Hard to leverage legacy & on-premise data

Downsides to Serverless



- 1) Pricing is not transparent, and can fluctuate



- 2) Risk of vendor lock in



- 3) Debugging and troubleshooting can be painful



- 4) Hard to leverage legacy & on-premise data

Services Pricing



Compute



Storage



Database



Migration



Networking & Delivery
Content

Amazon EC2

Virtual Servers in the Cloud

Amazon Elastic Container Service

Run and Manage Docker Containers

Amazon Elastic Container Registry

Store and Retrieve Docker Images

Amazon Lightsail

Launch and Manage Virtual Private Servers

AWS Batch

Run Batch Jobs at any Scale

AWS Elastic Beanstalk

Run and Manage Web Apps

AWS Fargate

Run Containers without Managing Servers or Clusters

AWS Lambda

Run your Code in Response to Events

Amazon Elastic Container Service for Kubernetes

Run managed Kubernetes on AWS



Developer Tools



Management Tools



Media Services



Security, Identity &
Compliance



Analytics



Machine Learning



Mobile Services



AR & VR



Application Integration



Customer Engagement



Business Applications



End User Computing



Internet of Things



Game Development



Simple Monthly Calculator

Whether you are running a single instance or dozens of individual services, you can estimate your monthly bill using your monthly bill using AWS Simple Monthly Calculator. The calculator allows you to estimate individual or multiple prices and use templates to appraise complete solutions.

[AWS Simple Monthly Calculator](#)

Amazon Web Services Simple Mont X +

<https://calculator.s3.amazonaws.com/index.html>

Reset All

Services Estimate of your Monthly Bill (\$ 0.00)

Choose region: US East (N. Virginia) Inbound Data Transfer is Free and Outbound Data Transfer is 1 GB free per region per month

Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides resizable compute capacity in the cloud. It is designed to make web-scale computing easier for developers. Amazon Elastic Block Store (EBS) provides persistent storage to Amazon EC2 instances. [Clear Form](#)

Compute: Amazon EC2 Instances:

| Description | Instances | Usage | Type | Billing Option | Monthly Cost |
|-----------------------------|-----------|-------|------|----------------|--------------|
| Add New Row | | | | | |

Compute: Amazon EC2 Dedicated Hosts:

| Description | Number of Hosts | Usage | Type | Billing Option |
|-----------------------------|-----------------|-------|------|----------------|
| Add New Row | | | | |

Storage: Amazon EBS Volumes:

| Description | Volumes | Volume Type | Storage | IOPS | Baseline Throughput | Snapshot Storage |
|-----------------------------|---------|-------------|---------|------|---------------------|------------------|
| Add New Row | | | | | | |

Compute: Amazon Elastic Graphics:

| Description | Number of Elastic Graphics | Usage | Elastic Graphics Size and Memory |
|-----------------------------|----------------------------|-------|----------------------------------|
| Add New Row | | | |

Additional T2/T3 Unlimited vCPU Hours per month:

For Linux, RHEL and SLES:

For Windows and Windows with SQL Web:

Elastic IP:

Number of Additional Elastic IPs:

Elastic IP Non-attached Time: Hours/Month

Number of Elastic IP Remaps: Per Month

Data Transfer:

Inter-Region Data Transfer Out: GB/Month

Data Transfer Out: GB/Month

Data Transfer In: GB/Month

VPC Peering Data Transfer: GB/Month

Intra-Region Data Transfer: GB/Month

Public IP/Elastic IP Data Transfer: GB/Month

Common Customer Samples

- Free Website on AWS
- AWS Elastic Beanstalk Default
- Marketing Web Site
- Large Web Application (All On-Demand)
- Media Application
- European Web Application
- Disaster Recovery and Backup

Select a product to include it in your estimate.

Search products x

Featured

Compute

Networking

Storage

Web

Mobile

Containers

Databases

Analytics

AI + Machine Learning

Internet of Things

Integration

Identity

Security

Developer Tools

DevOps

Management and Governance

Media

Migration

Virtual Machines

Provision Windows and Linux virtual machines in seconds

App Service

Quickly create powerful cloud apps for web and mobile

Azure Functions

Process events with serverless code

Storage Accounts

Durable, highly available, and massively scalable cloud storage

Azure Cosmos DB

Globally distributed, multi-model database for any scale

Azure SQL Database

Managed relational SQL Database as a service

Azure Kubernetes Service (AKS)

Simplify the deployment, management, and operations of Kubernetes

Cost Management

Optimize what you spend on the cloud, while maximizing cloud potential

Pricing Calculator | Microsoft A X +

https://azure.microsoft.com/en-us/pricing/calculator/#virtual-machines

Contact Sales: 1-800-867-1389 Search My account Portal Sign in

Overview Solutions Products Documentation Pricing Training Marketplace Partners Support Blog More Free account >

Virtual Machines are billed per-second. Learn more about Virtual Machines pricing.

Managed OS Disks

TIER:

Standard HDD

DISK SIZE:

S4: 32 GiB, \$1.536/month ADD SNAPSHOT

| | | | | | |
|-------|---|--------|-----------|---|--------|
| 0 | x | \$1.54 | Per month | = | \$0.00 |
| Disks | | | | | |

Storage transactions

| | | | | | |
|--|---|----------|----------|---|--------|
| 100 | x | \$0.0005 | Per unit | = | \$0.05 |
| Transaction units (10,000 transactions) | | | | | |

Sub-total \$152.62

Support

Find in page Highlight All Match Case Whole Words



Downsides to Serverless



- 1) Pricing is not transparent, and can fluctuate



- 2) Risk of vendor lock in



- 3) Debugging and troubleshooting can be painful



- 4) Hard to leverage legacy & on-premise data

Downsides to Serverless



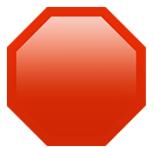
- 1) Pricing is not transparent, and can fluctuate



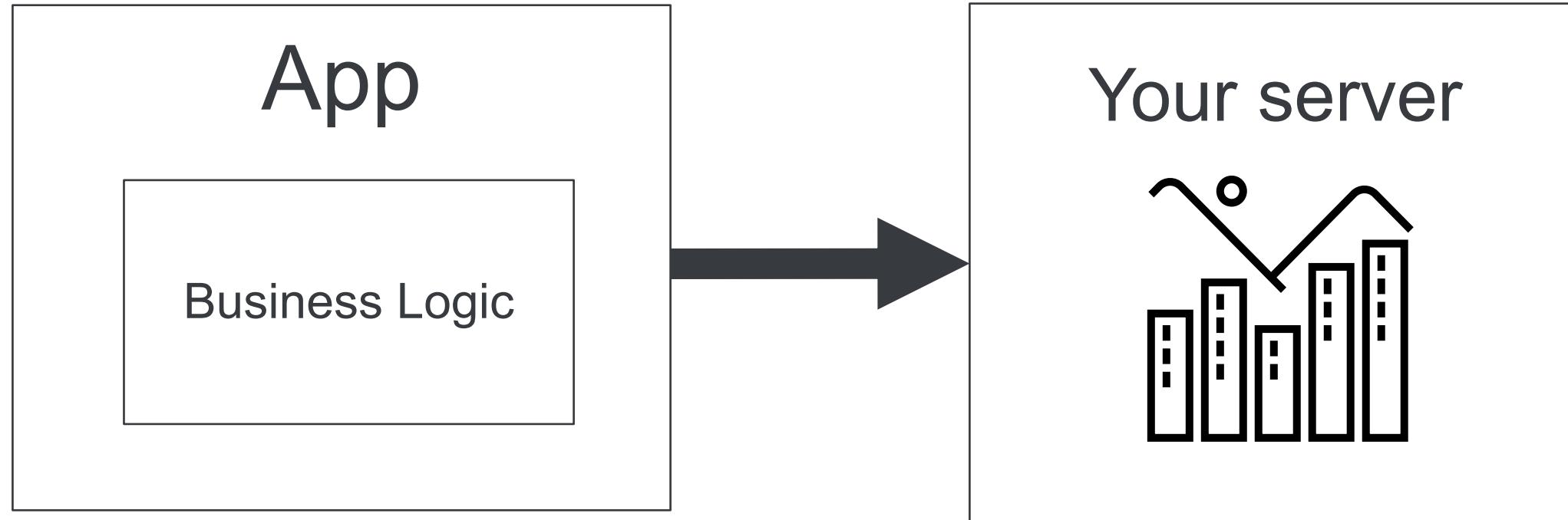
- 2) **Risk of vendor lock in**

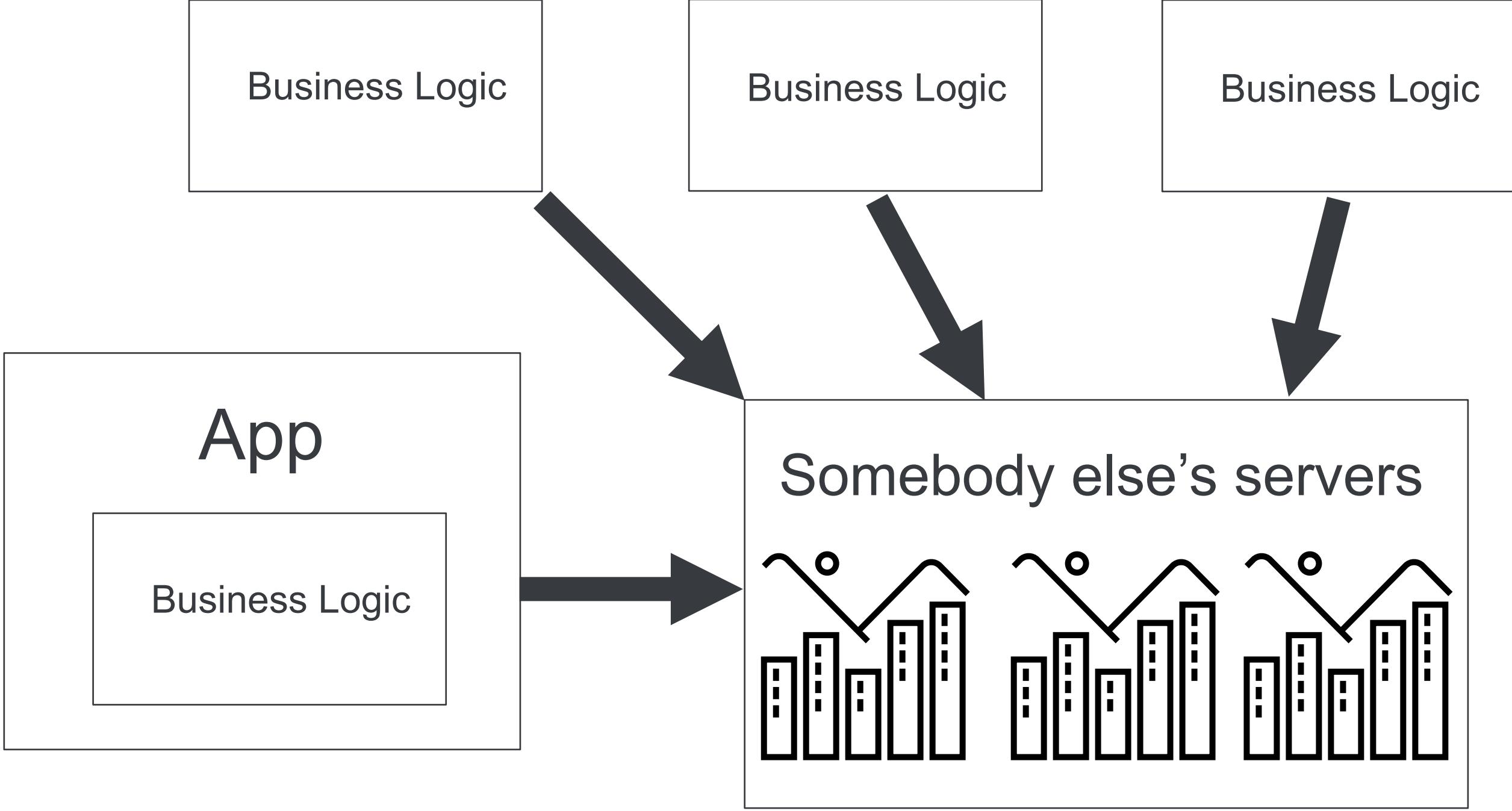


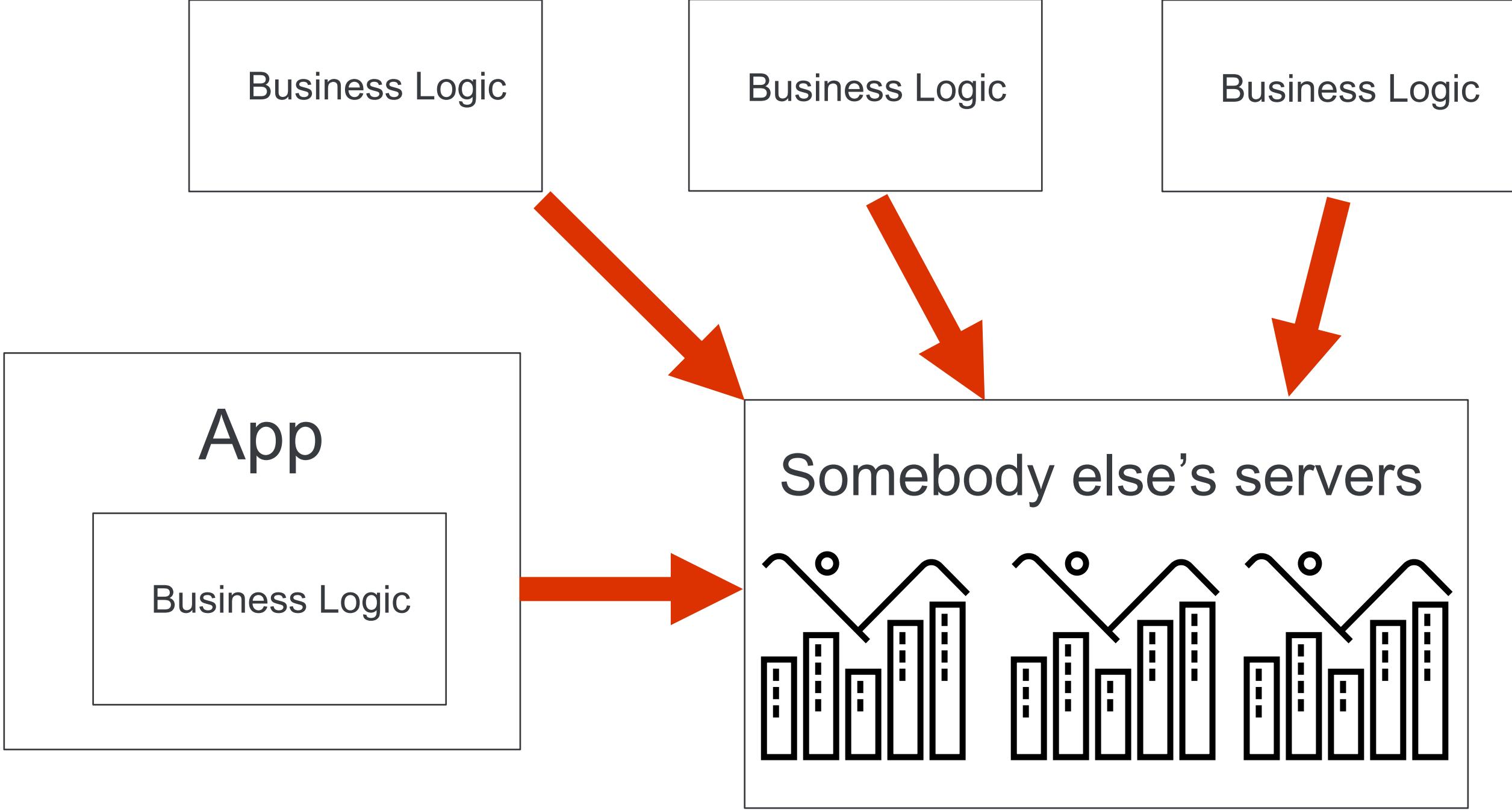
- 3) Debugging and troubleshooting can be painful



- 4) Hard to leverage legacy & on-premise data







Downsides to Serverless



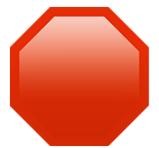
- 1) Pricing is not transparent, and can fluctuate



- 2) Risk of vendor lock in



- 3) Debugging and troubleshooting can be painful



- 4) Hard to leverage legacy & on-premise data

Downsides to Serverless



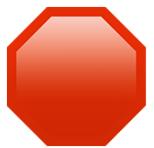
- 1) Pricing is not transparent, and can fluctuate



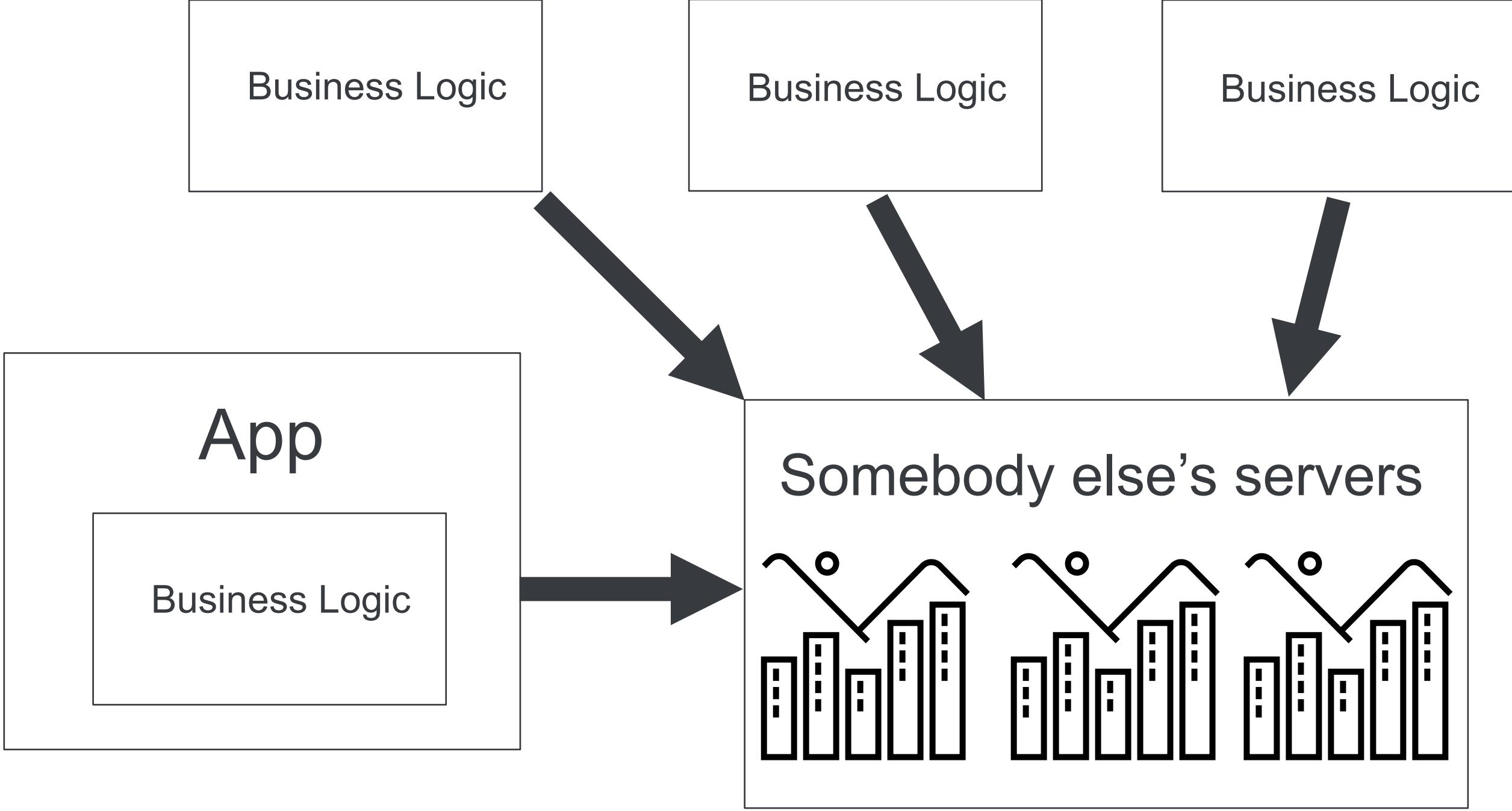
- 2) Risk of vendor lock in



- 3) Debugging and troubleshooting can be painful



- 4) Hard to leverage legacy & on-premise data



Downsides to Serverless



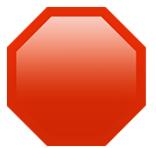
- 1) Pricing is not transparent, and can fluctuate



- 2) Risk of vendor lock in



- 3) Debugging and troubleshooting can be painful



- 4) Hard to leverage legacy & on-premise data

Downsides to Serverless



- 1) Pricing is not transparent, and can fluctuate



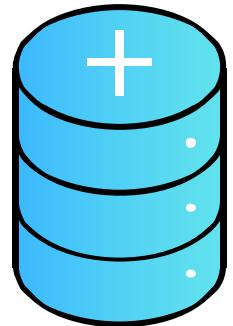
- 2) Risk of vendor lock in



- 3) Debugging and troubleshooting can be painful



- 4) Hard to leverage legacy & on-premise data

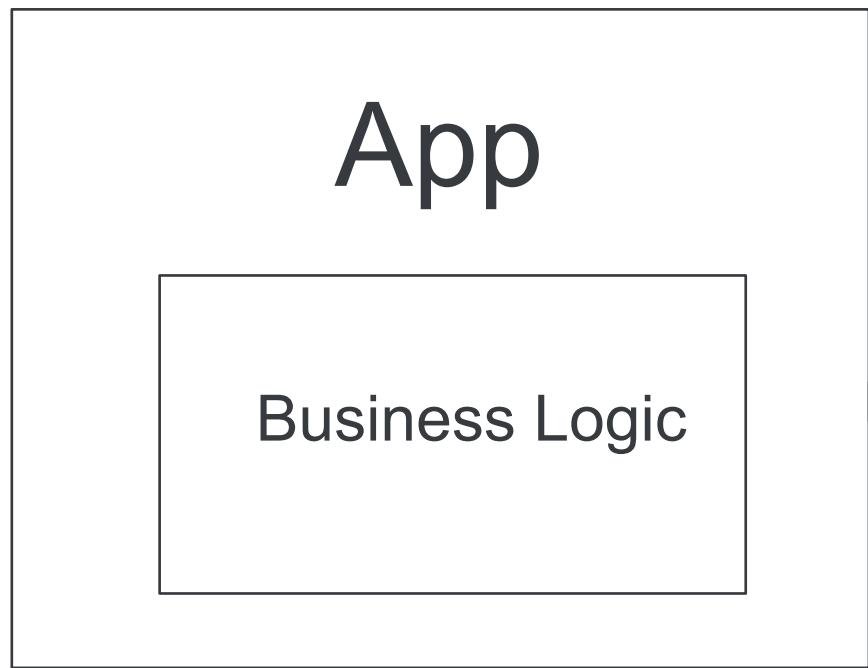


Business Logic



App

Business Logic



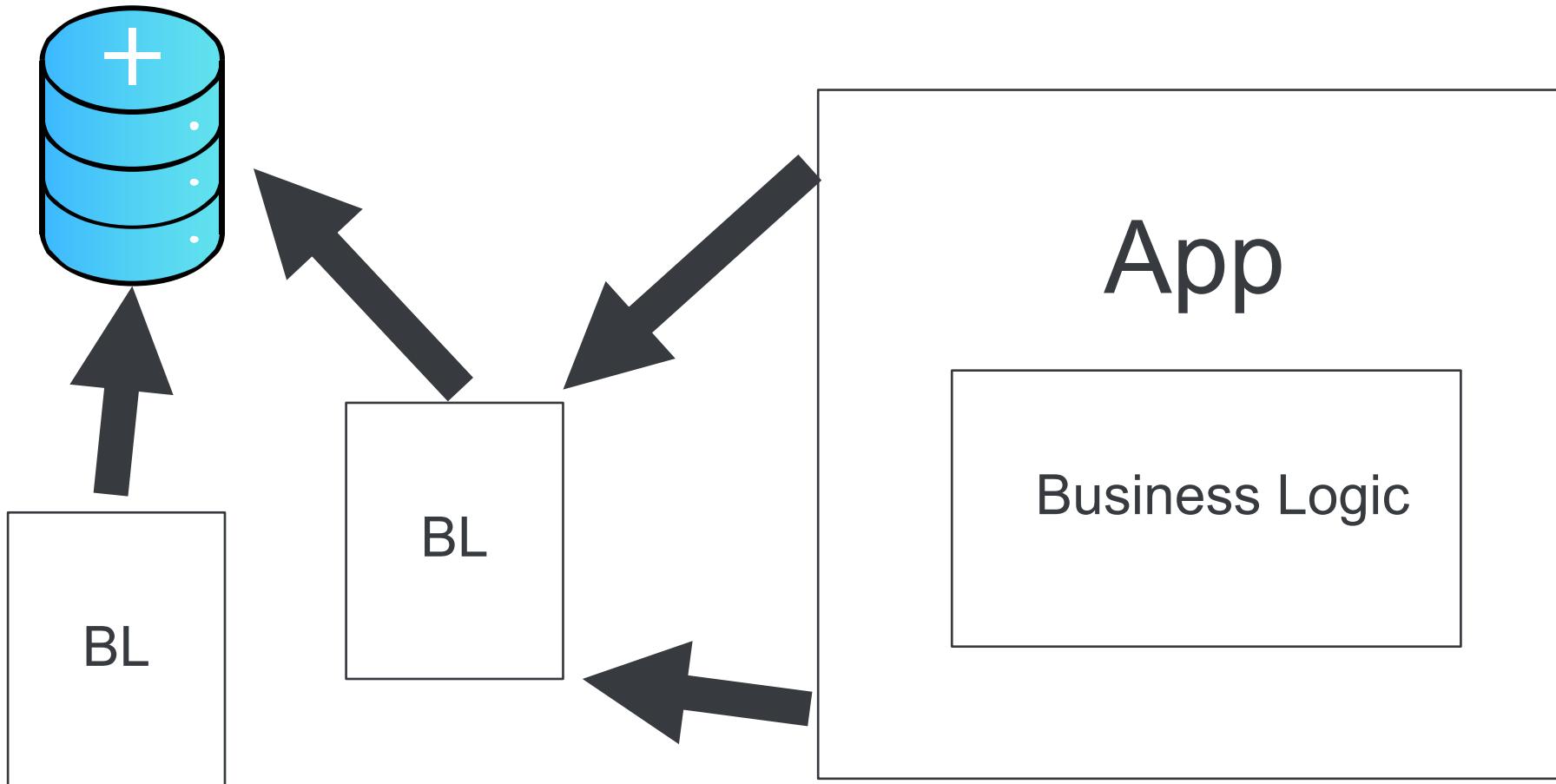
Business Logic

Business Logic

Somebody else's servers



Your Servers





Benefits of Kinvey

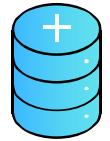


- Consistent pricing

Benefits of Kinvey



- Consistent pricing



- A powerful suite of data connectors



Benefits of Kinvey



- Consistent pricing



- A powerful suite of data connectors



- Built-in compliance

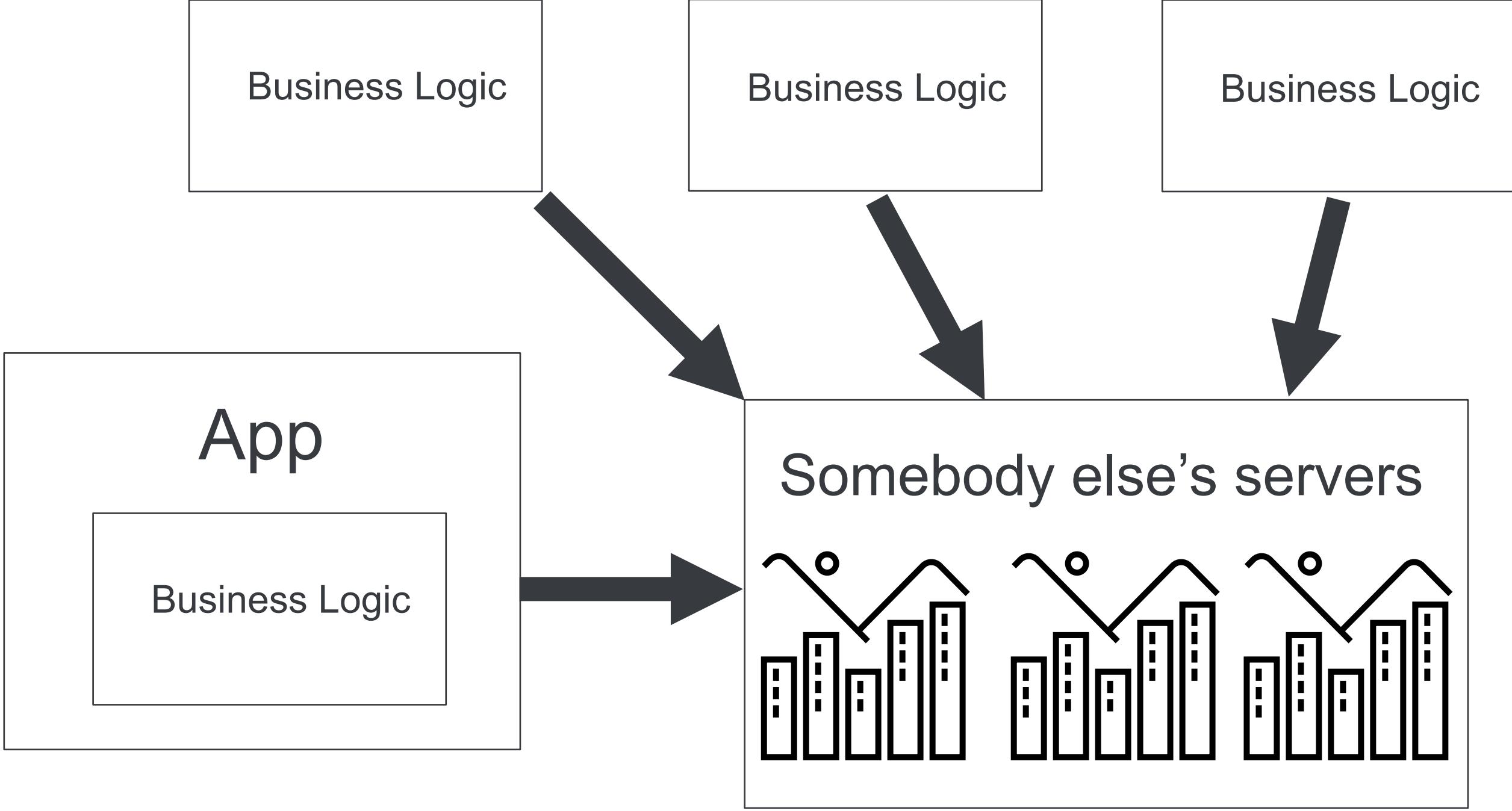
Built-in Compliance

- HIPAA
- SOC2
- GDPR
- Sarbanes-Oxley

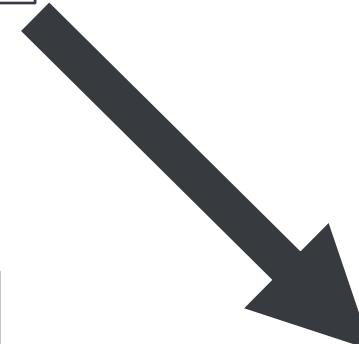


Demos!



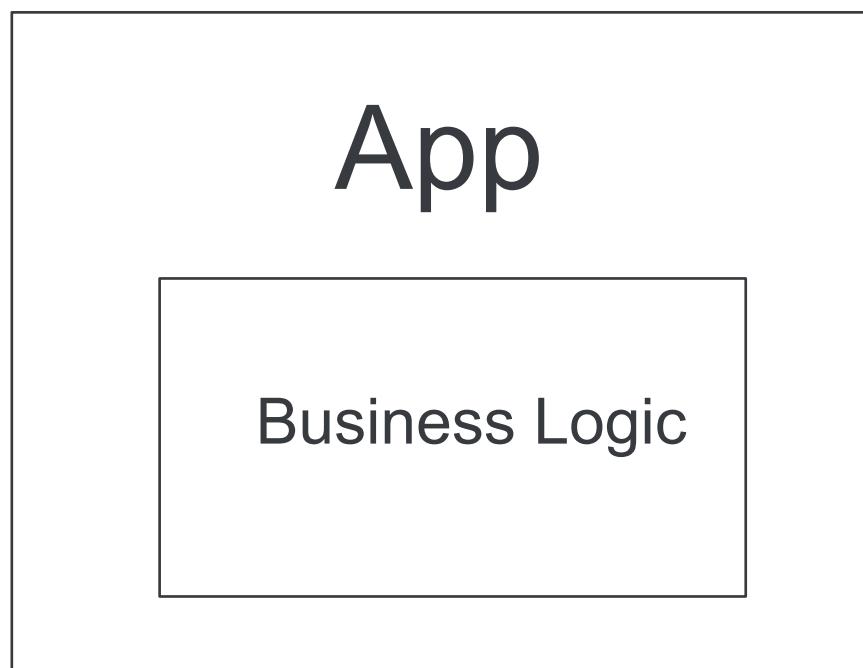


Business Logic



App

Business Logic



Somebody else's servers



Thanks!
@tjvantoll

<https://www.progress.com/kinvey>