Progress®

Get Started With Serverless

👋

TJ VanToll

Principal Developer Advocate

Serverless 101

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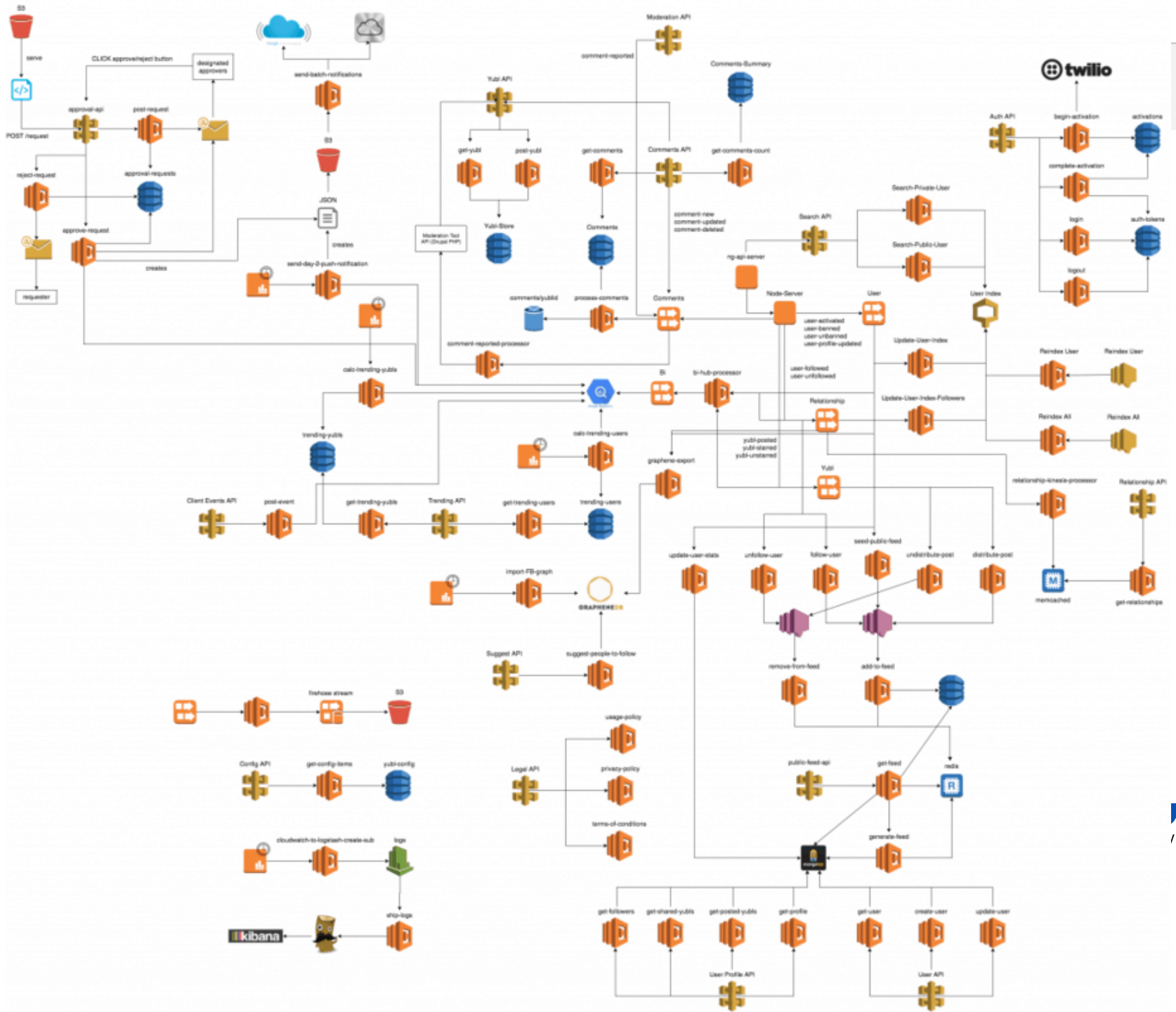
twilio
Amazon DynamoDB
Application Server
1
Online Retailer Website
2
Order Management System
3
Product Catalog Update Files
Cloud Storage
ltime
hboard
Google Data Studio
10

Agenda

- Introduce serverless
  - 30 minutes

- Demos!
  - 15 minutes

- Questions?
  - ? minutes

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What is serverless?

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Business Logic

Microservice

Business Logic

Microservice

Business Logic

Microservice

App

Bu

SERVERLESS

somebody else's servers

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

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5 Benefits of Serverless

- 1) Reduced DevOps workload

- 2) Scalability

- 3) Pay as you go

- 4) Decoupled business logic

- 5) Quick deployments and updates

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ICE BAG
ICE BAG
ICE BAG
CMU
CENTRAL MICHIGAN UNIVERSITY
Whirlpool

ACME Insurance

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GEICO

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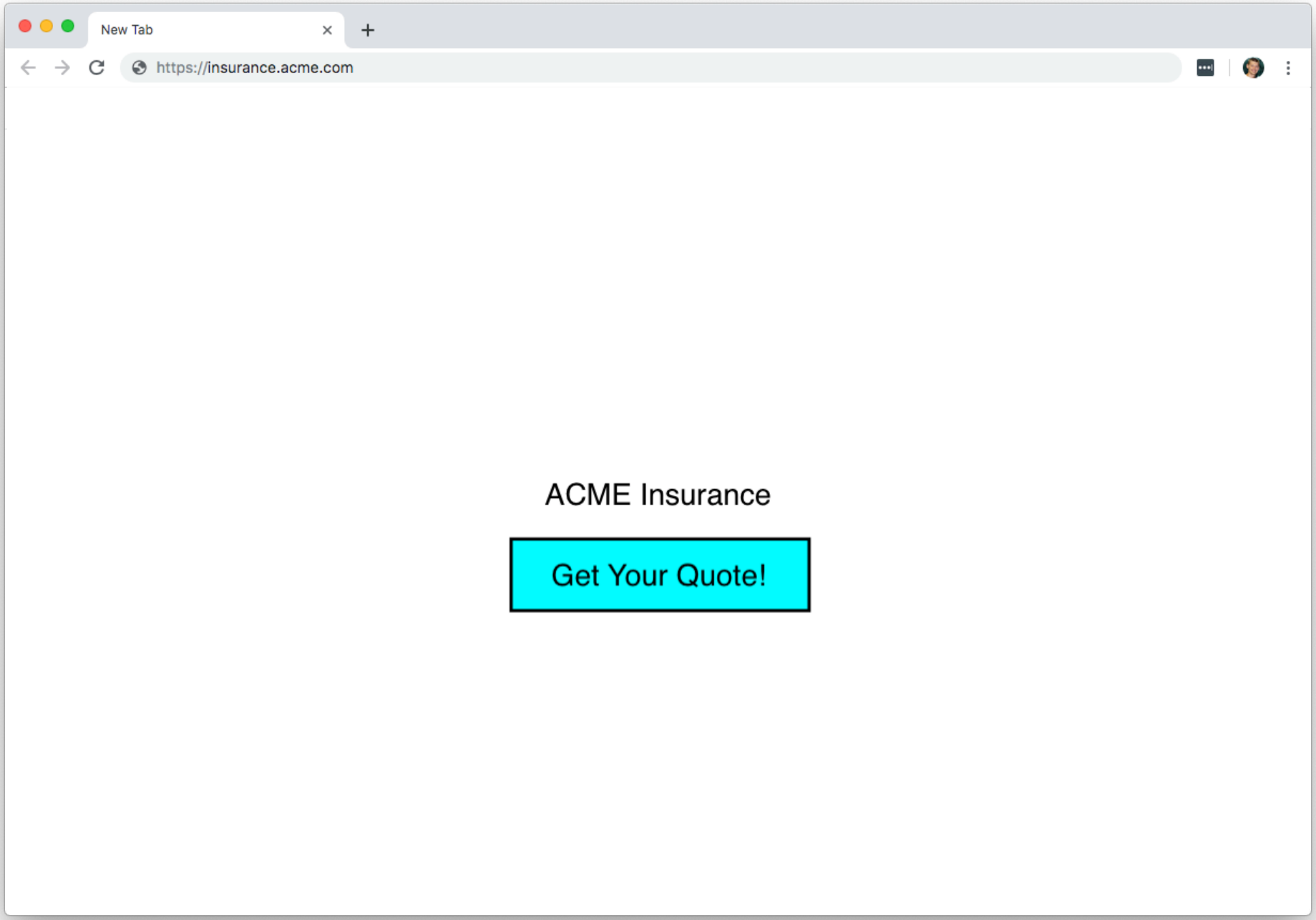

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2 years of my life

1 paying customer

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~~Serverless would have saved ACME Insurance~~

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Serverless would have helped ACME Insurance fail with less bad.

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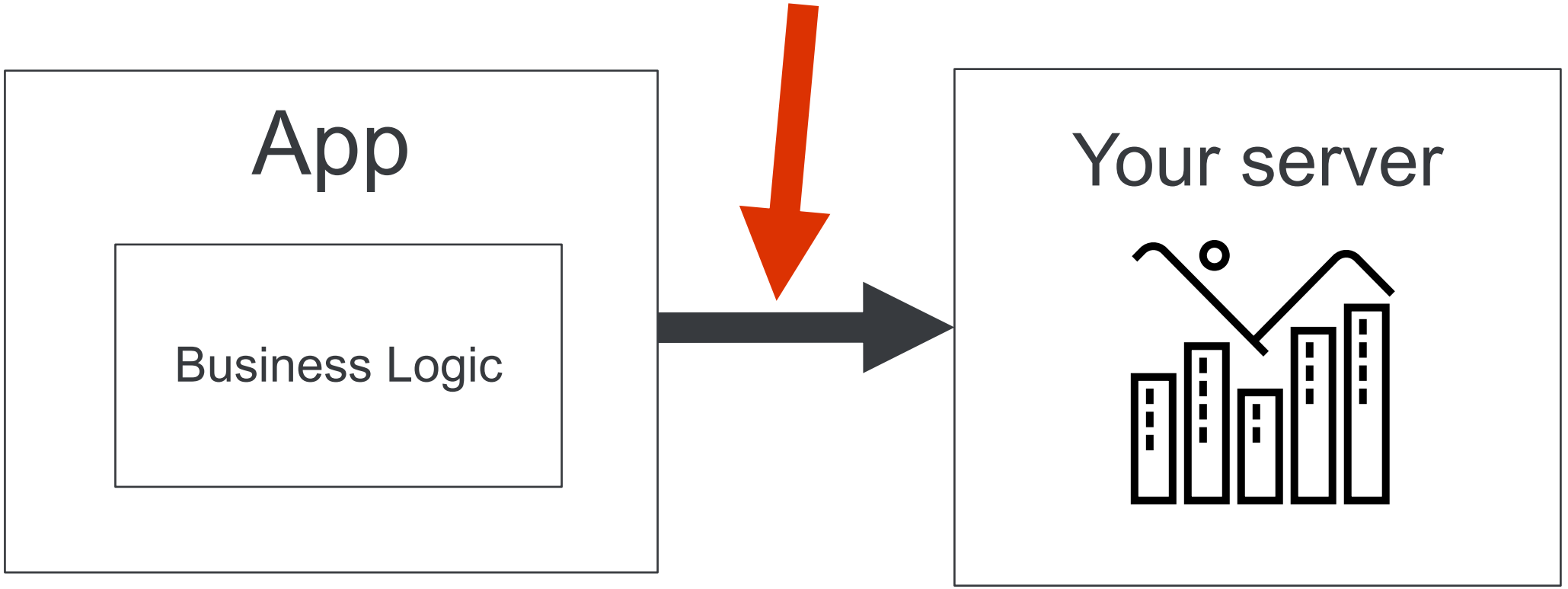

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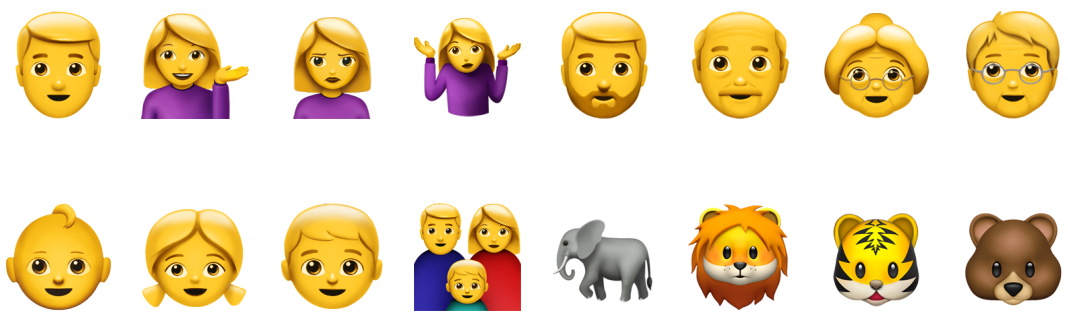

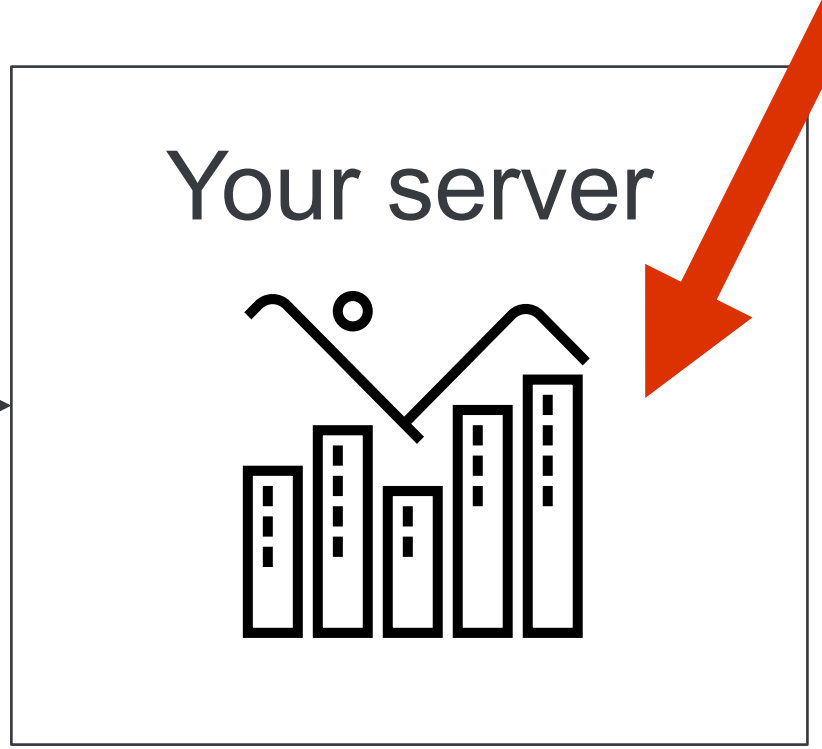

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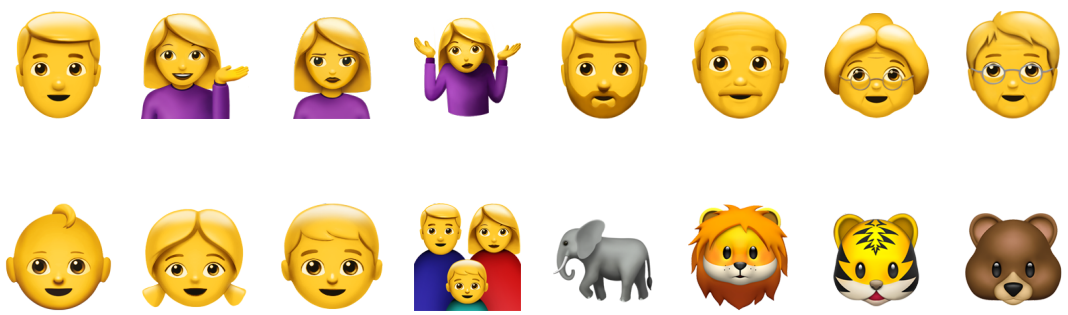

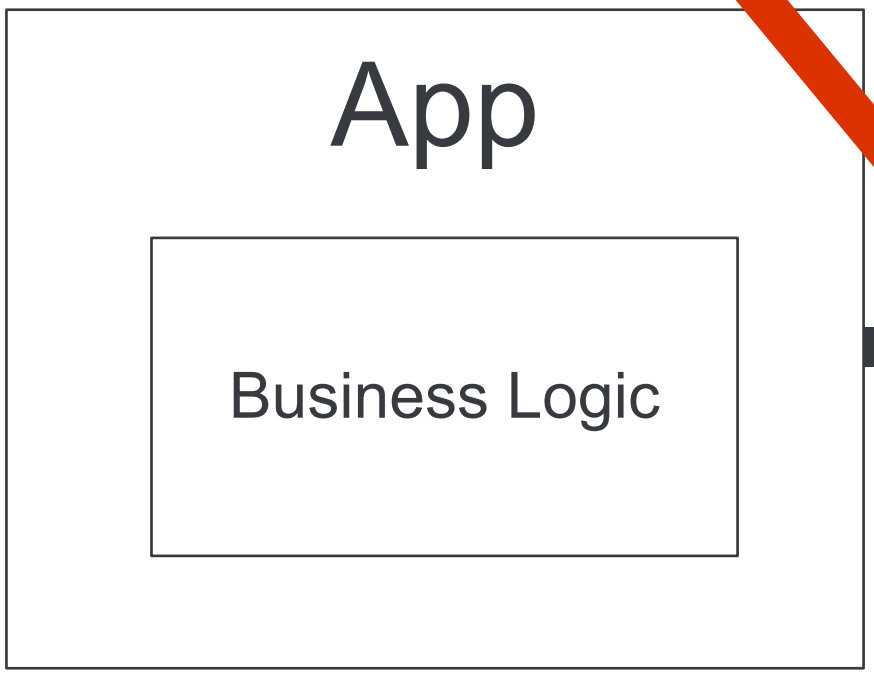

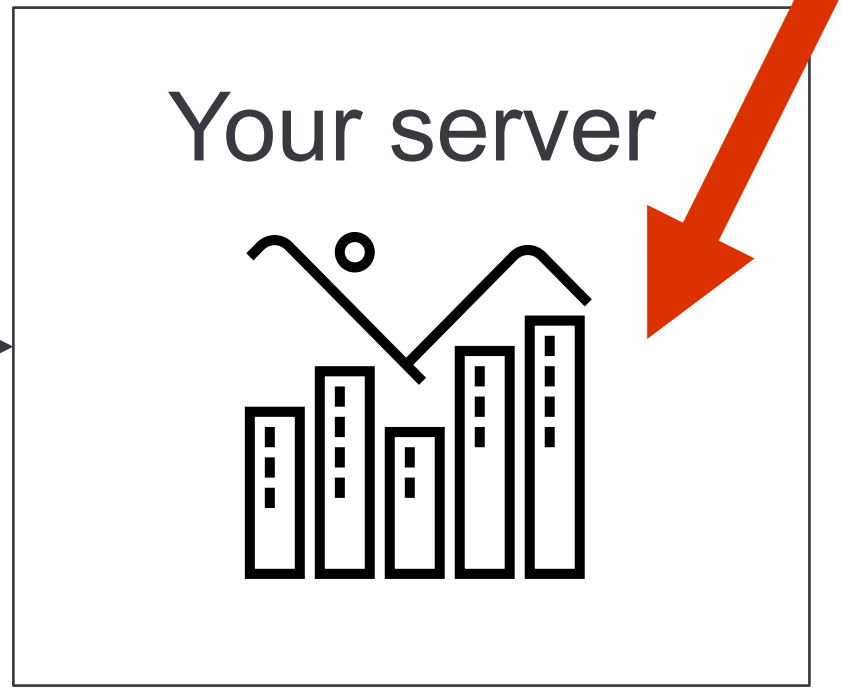

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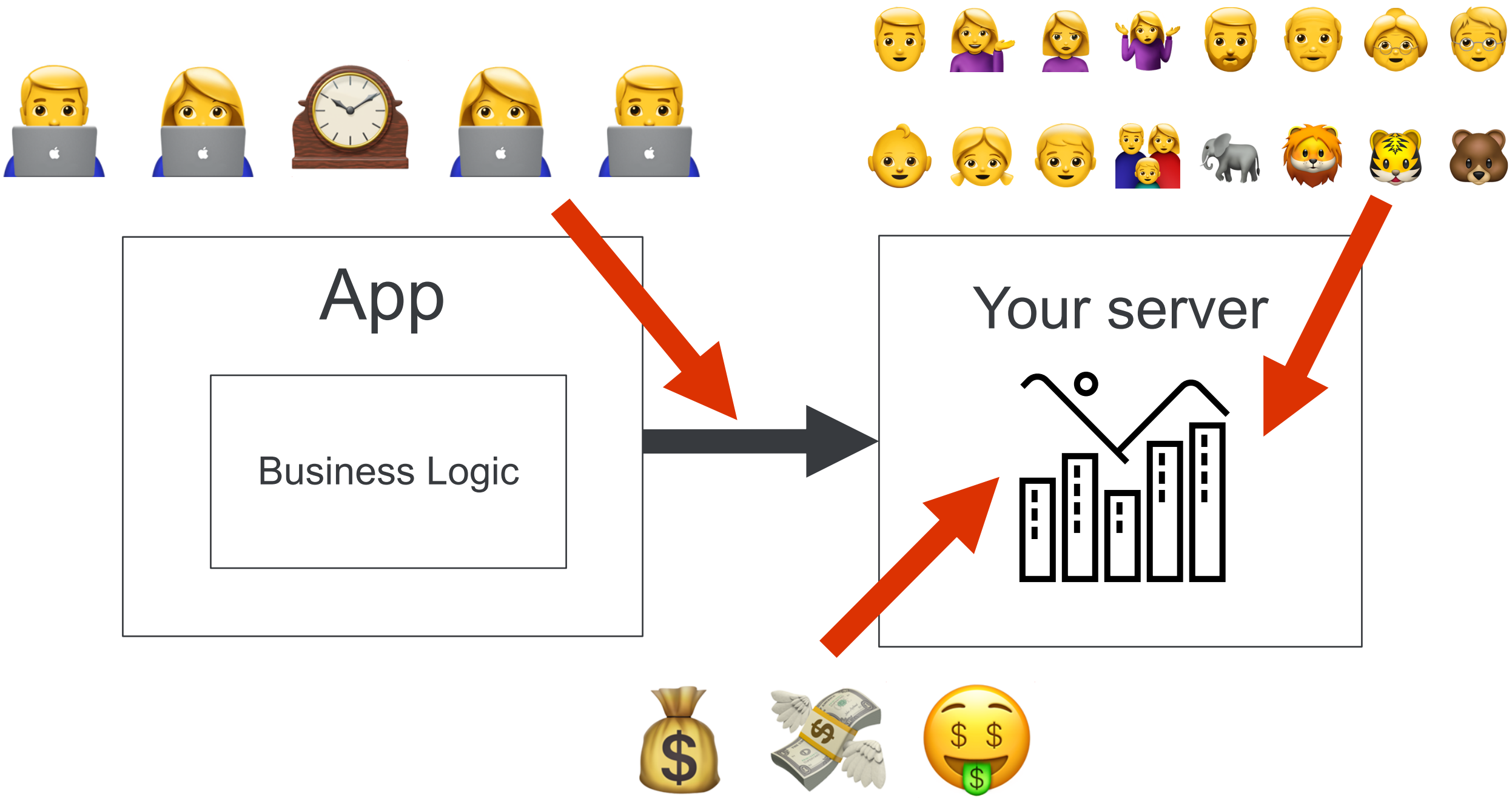

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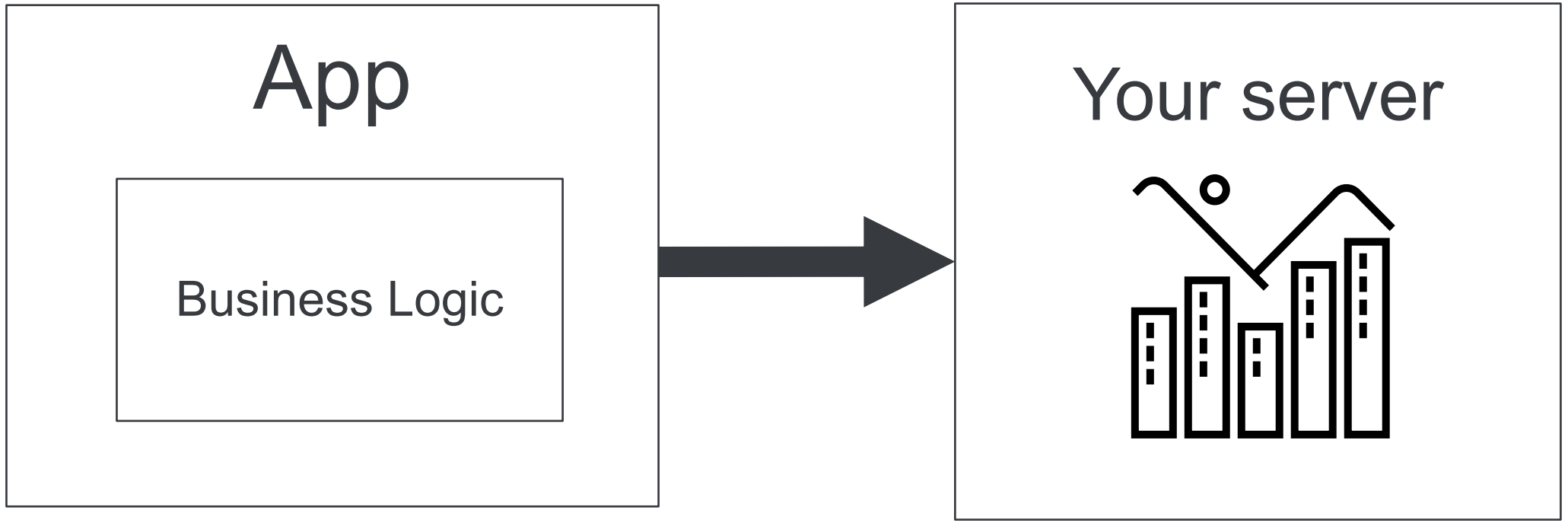

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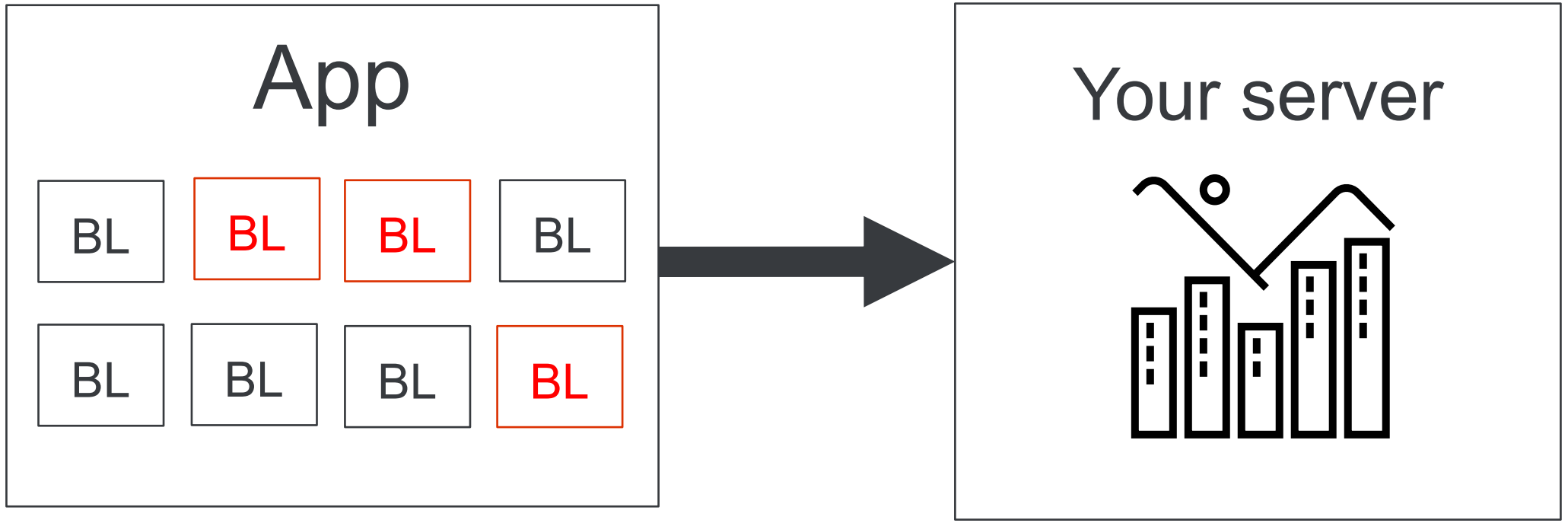

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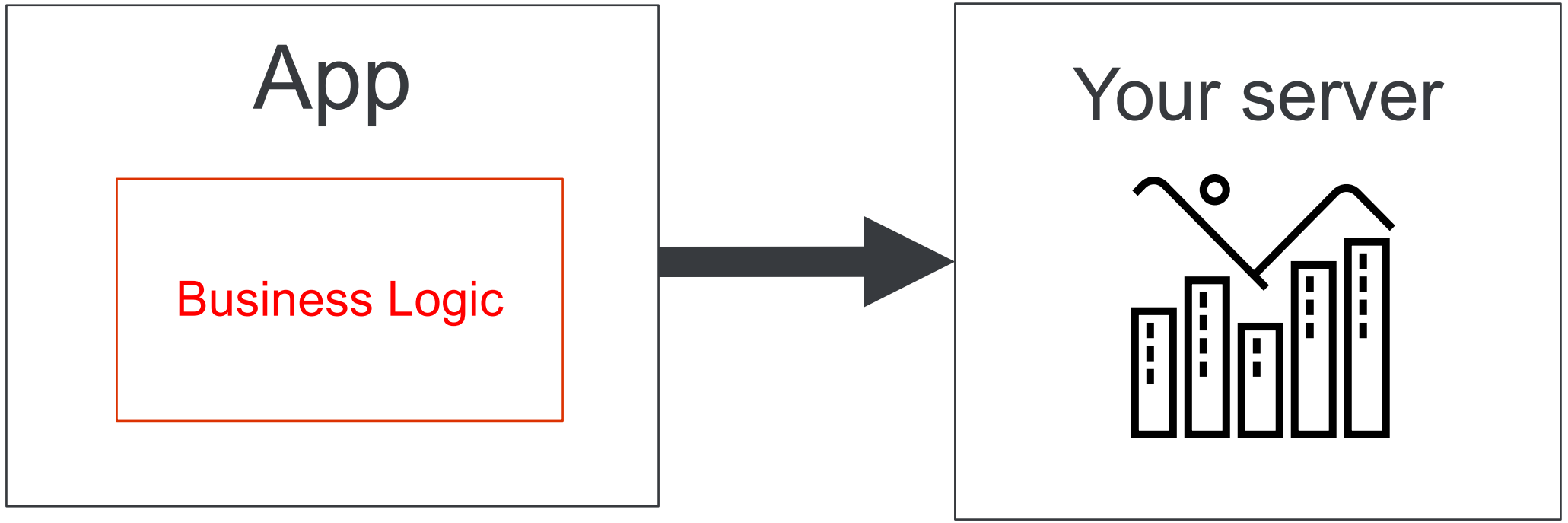

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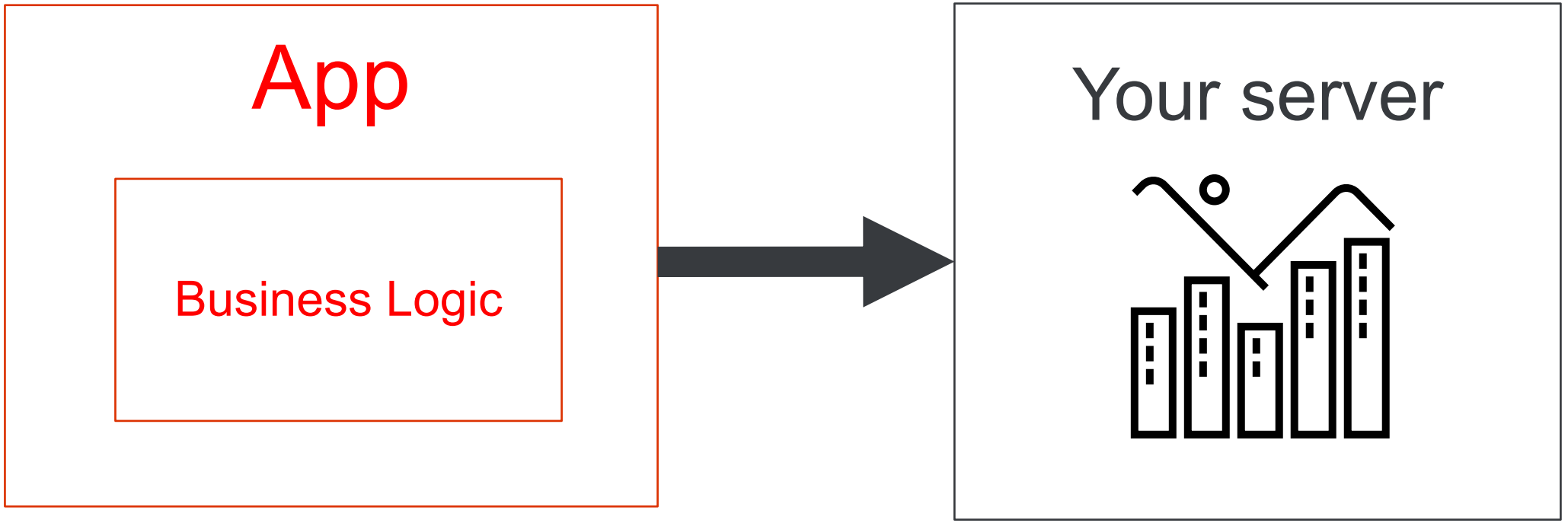

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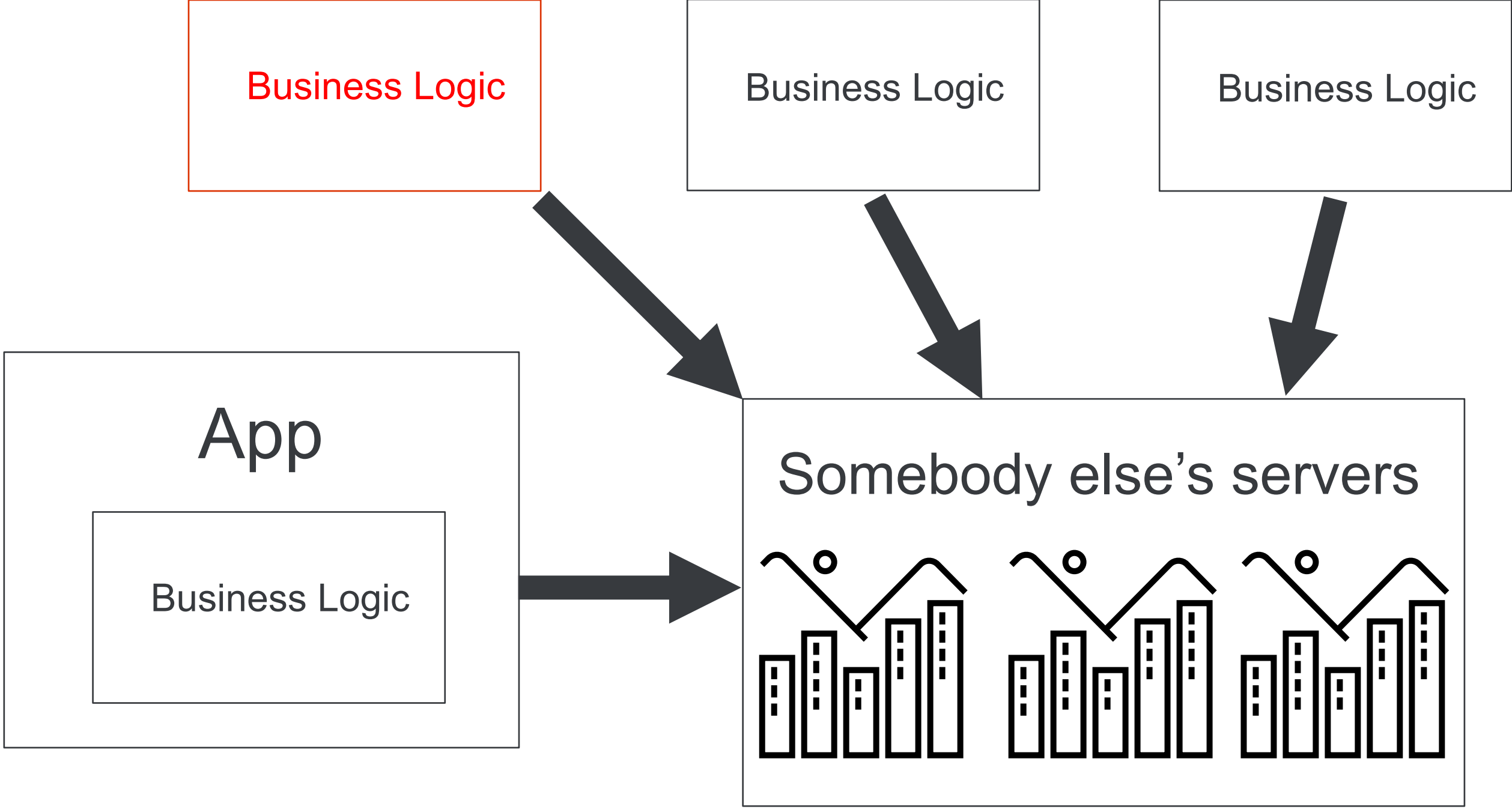

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Downsides to Serverless

- 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

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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

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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

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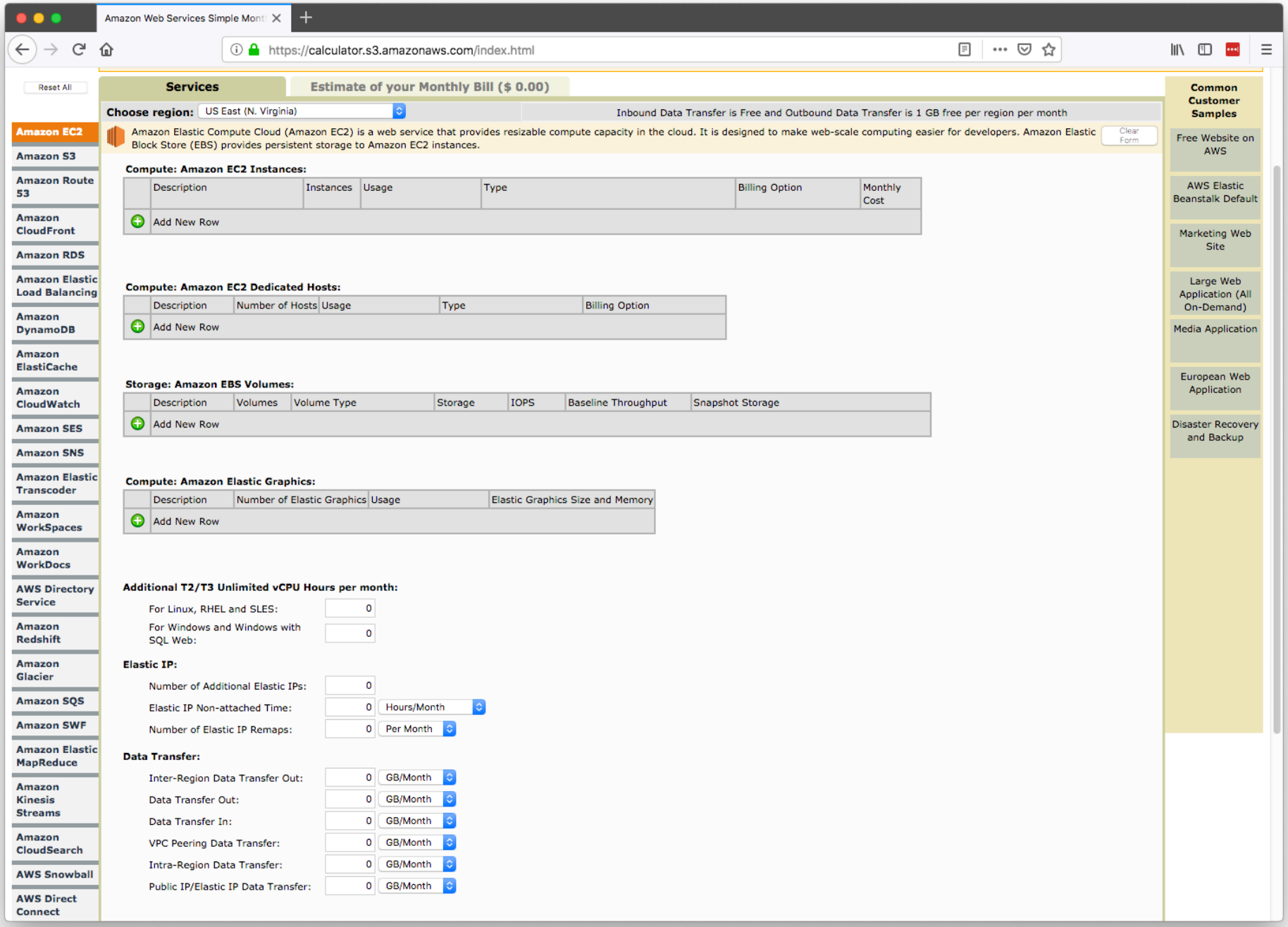

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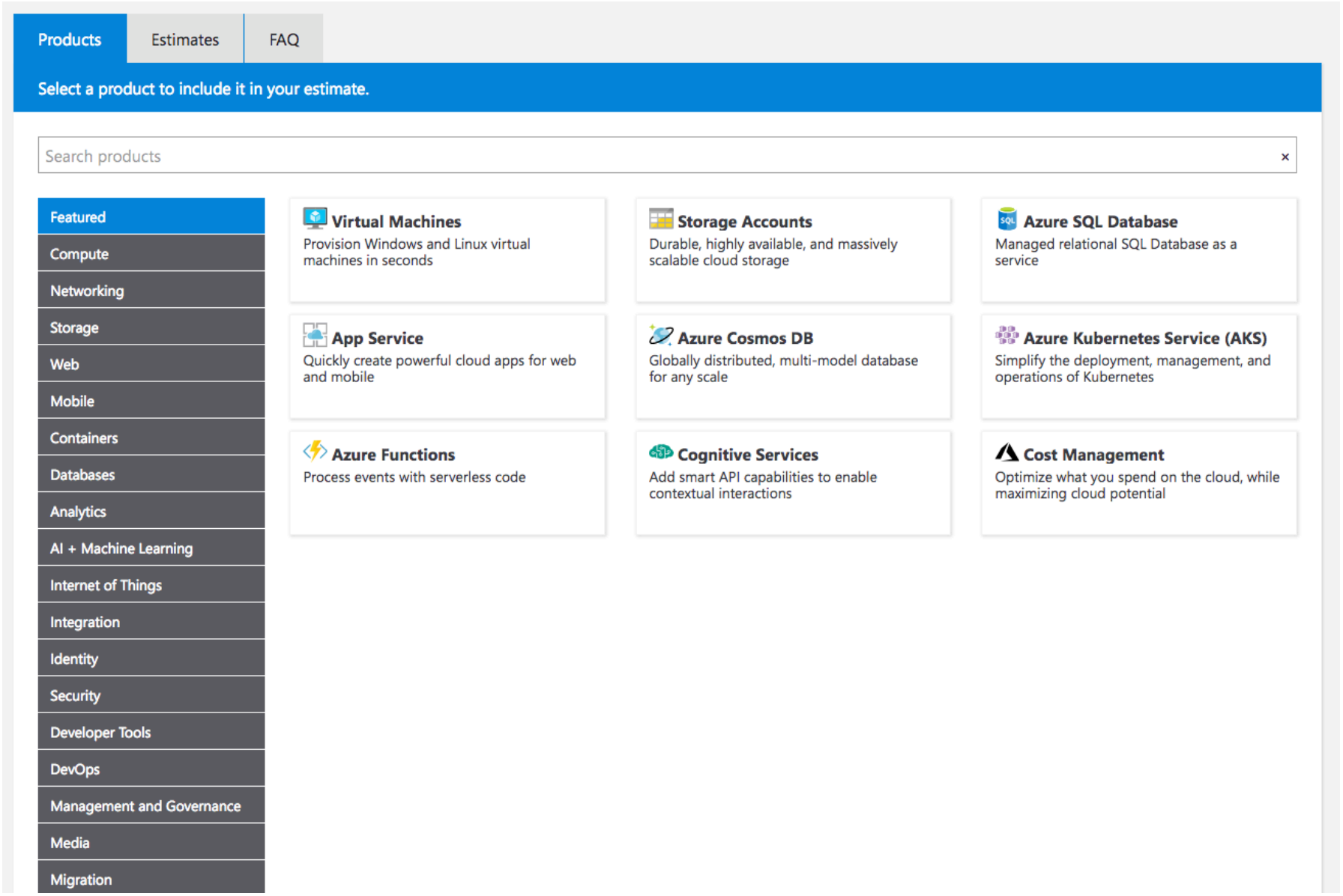

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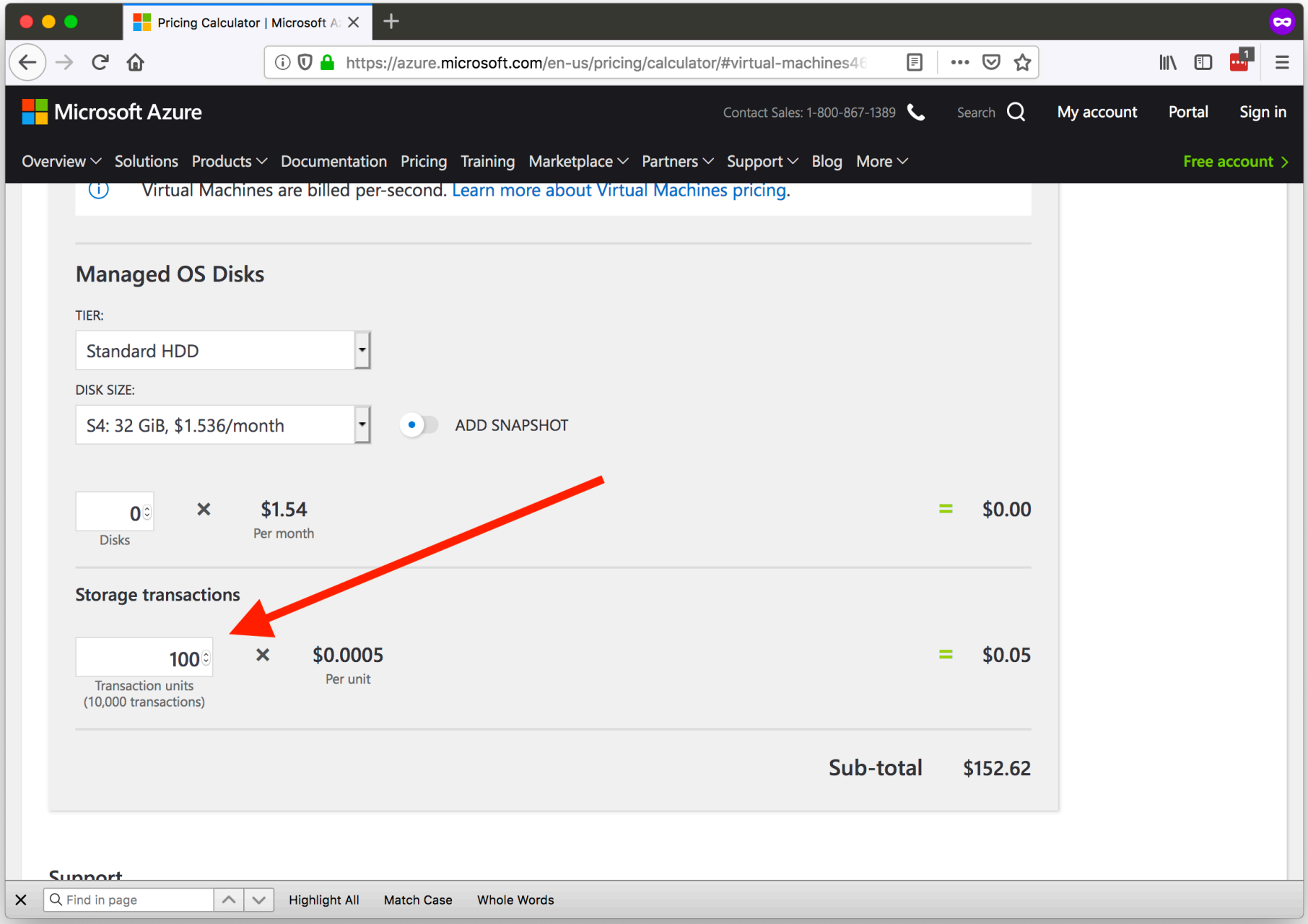

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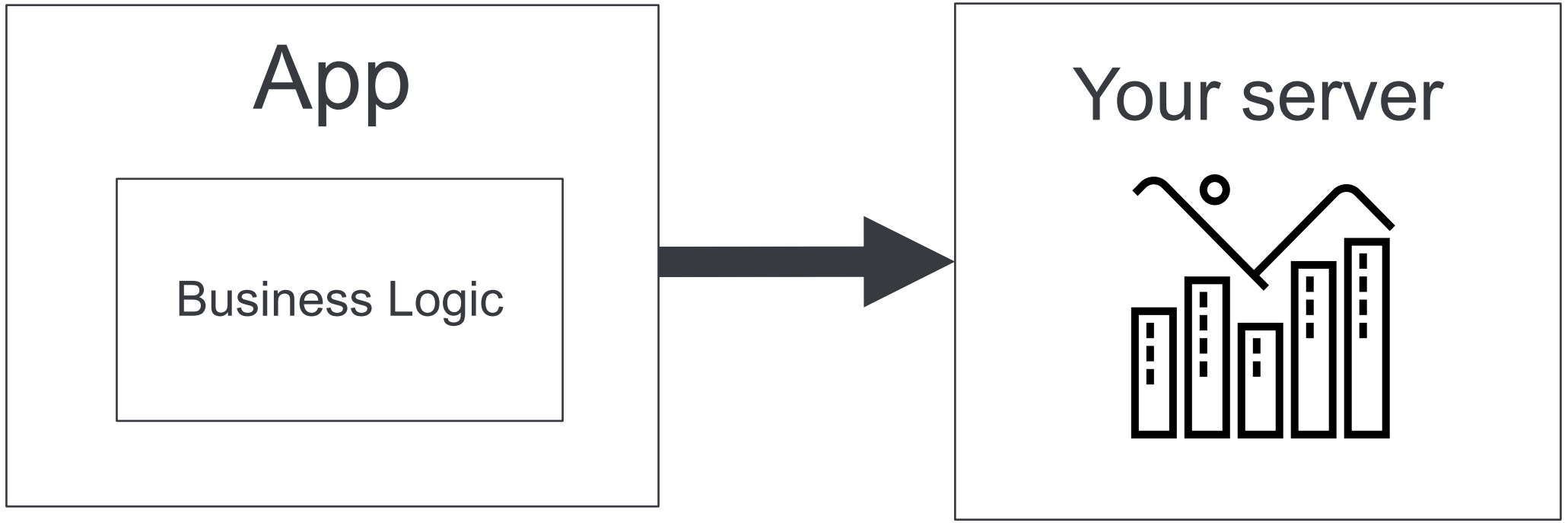

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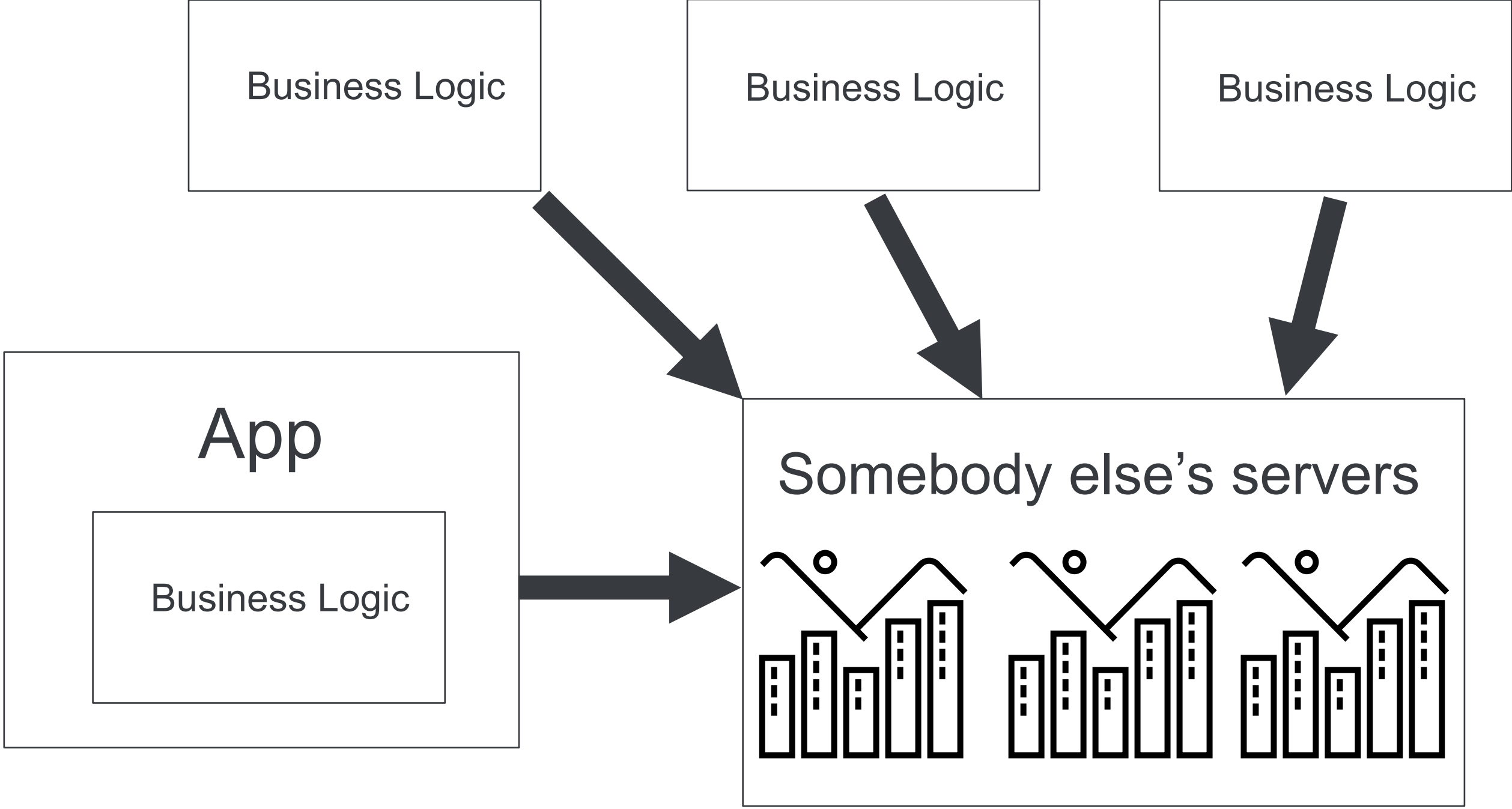

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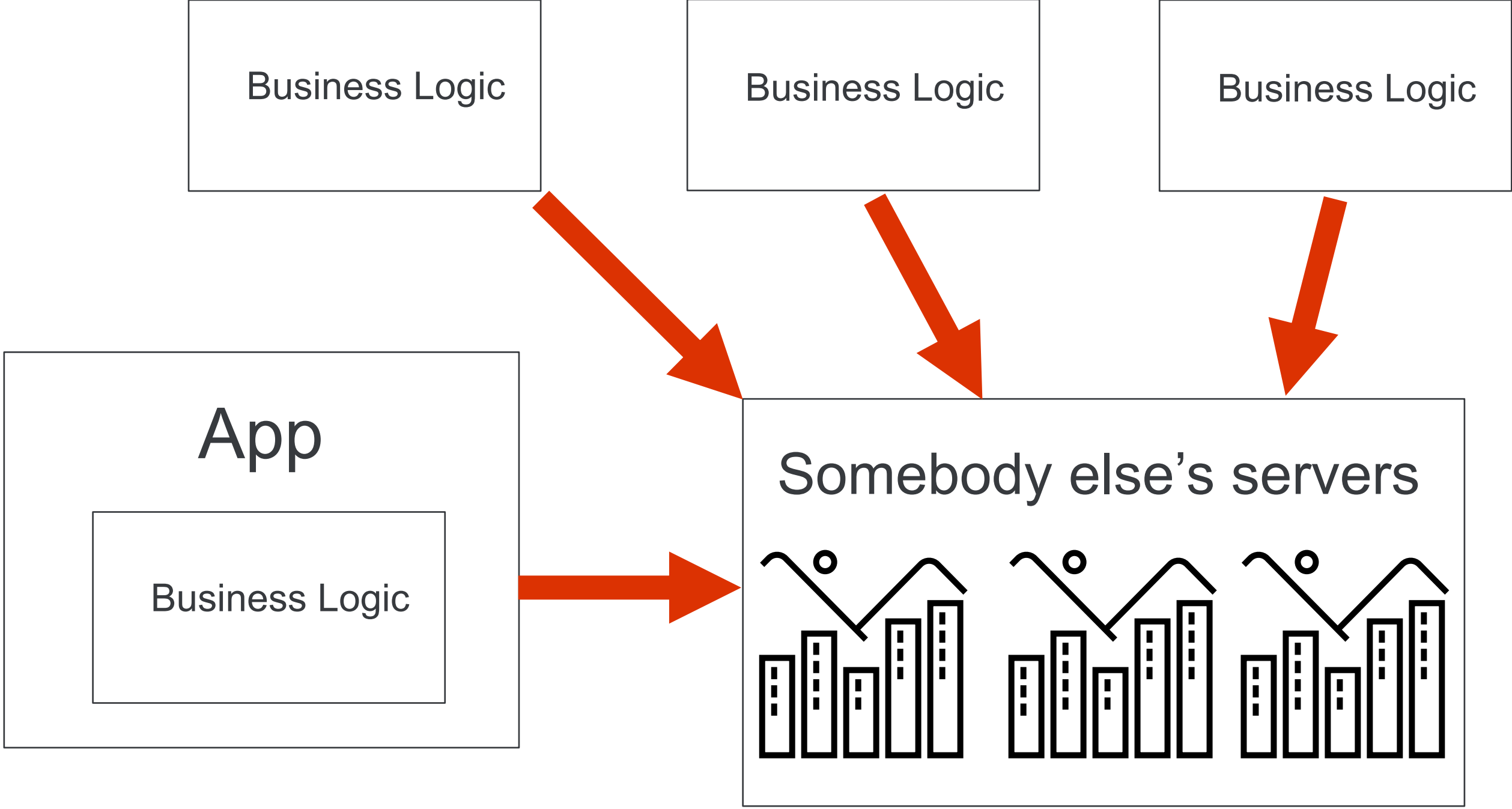

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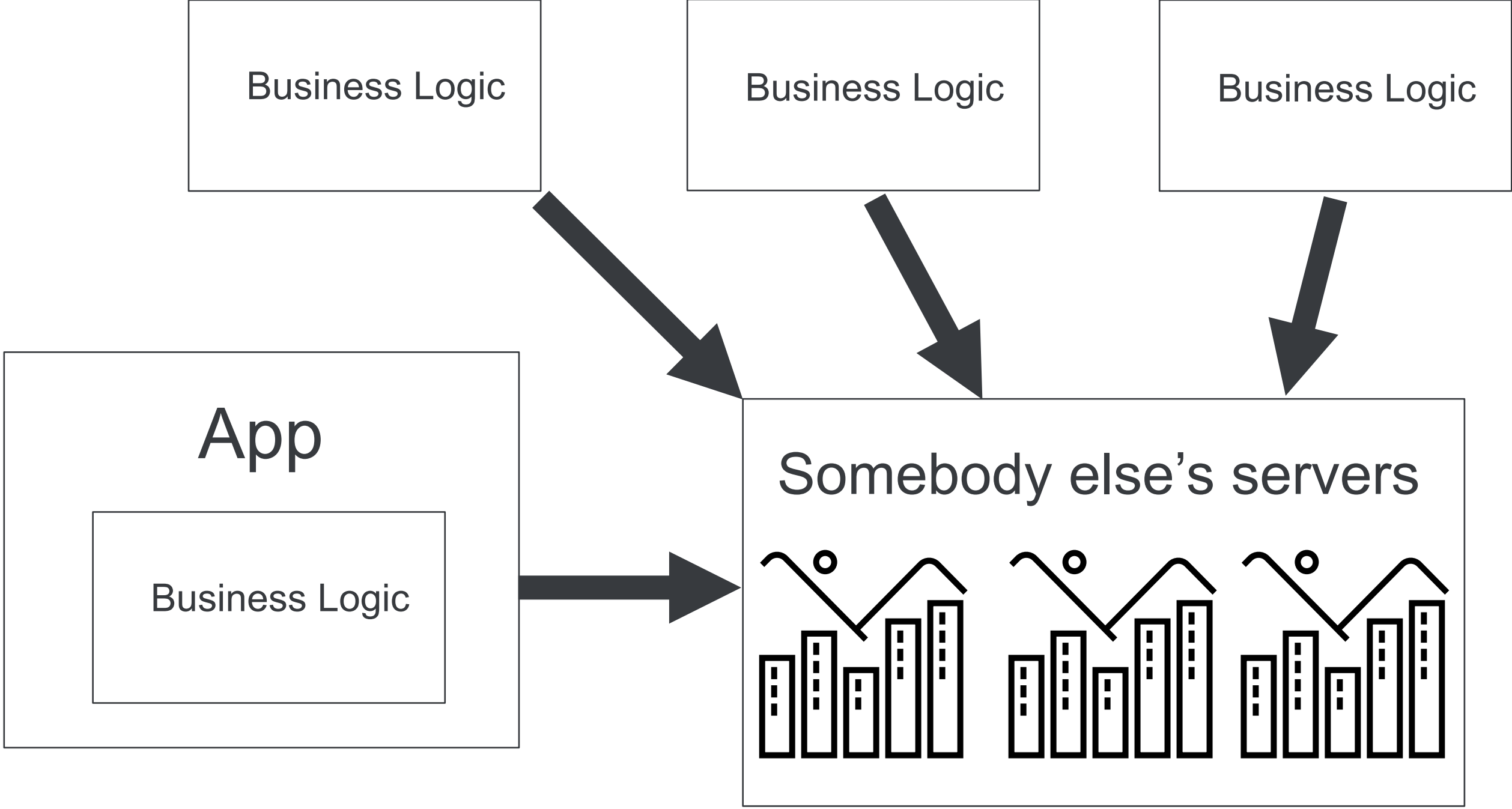

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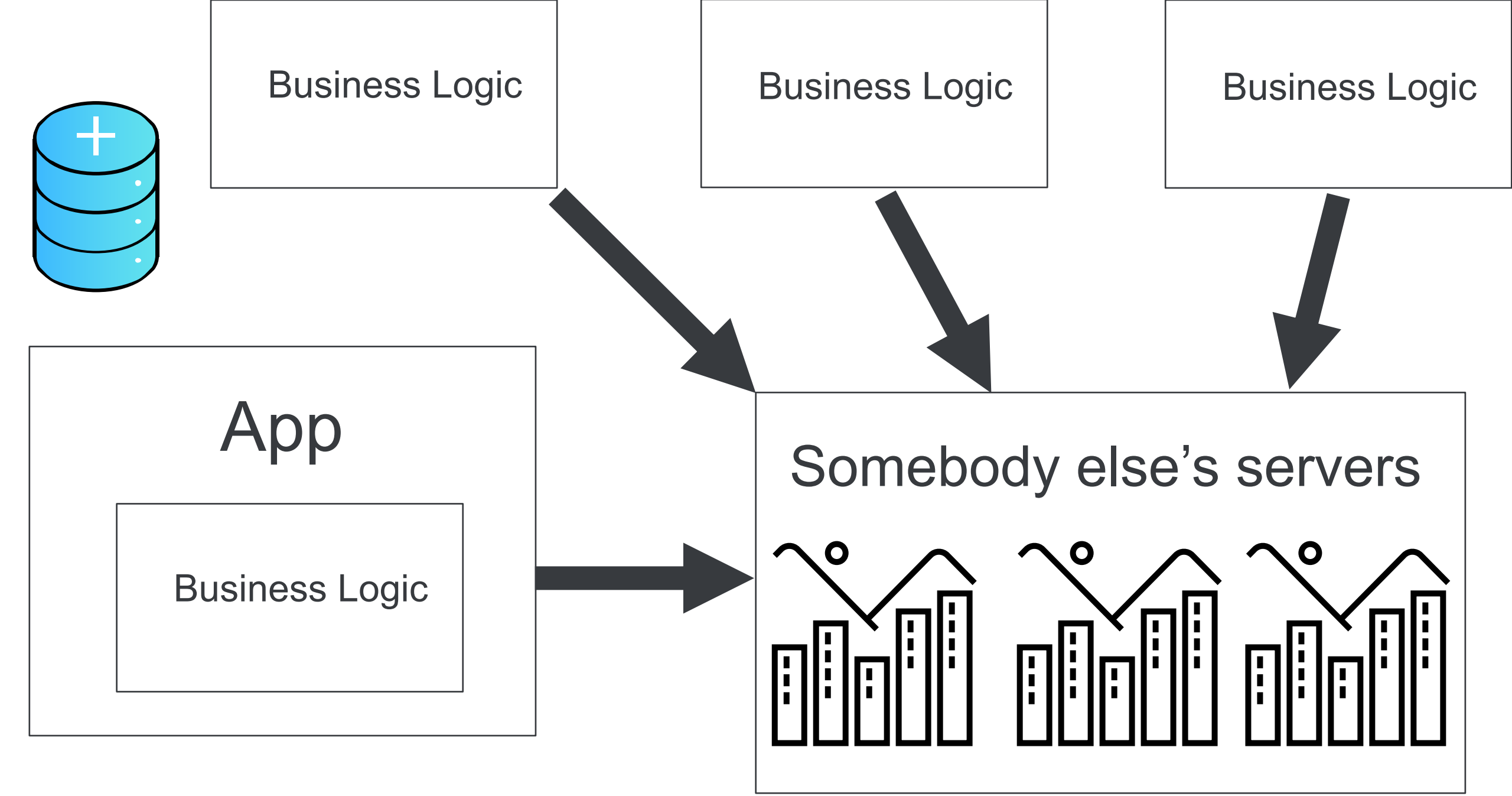

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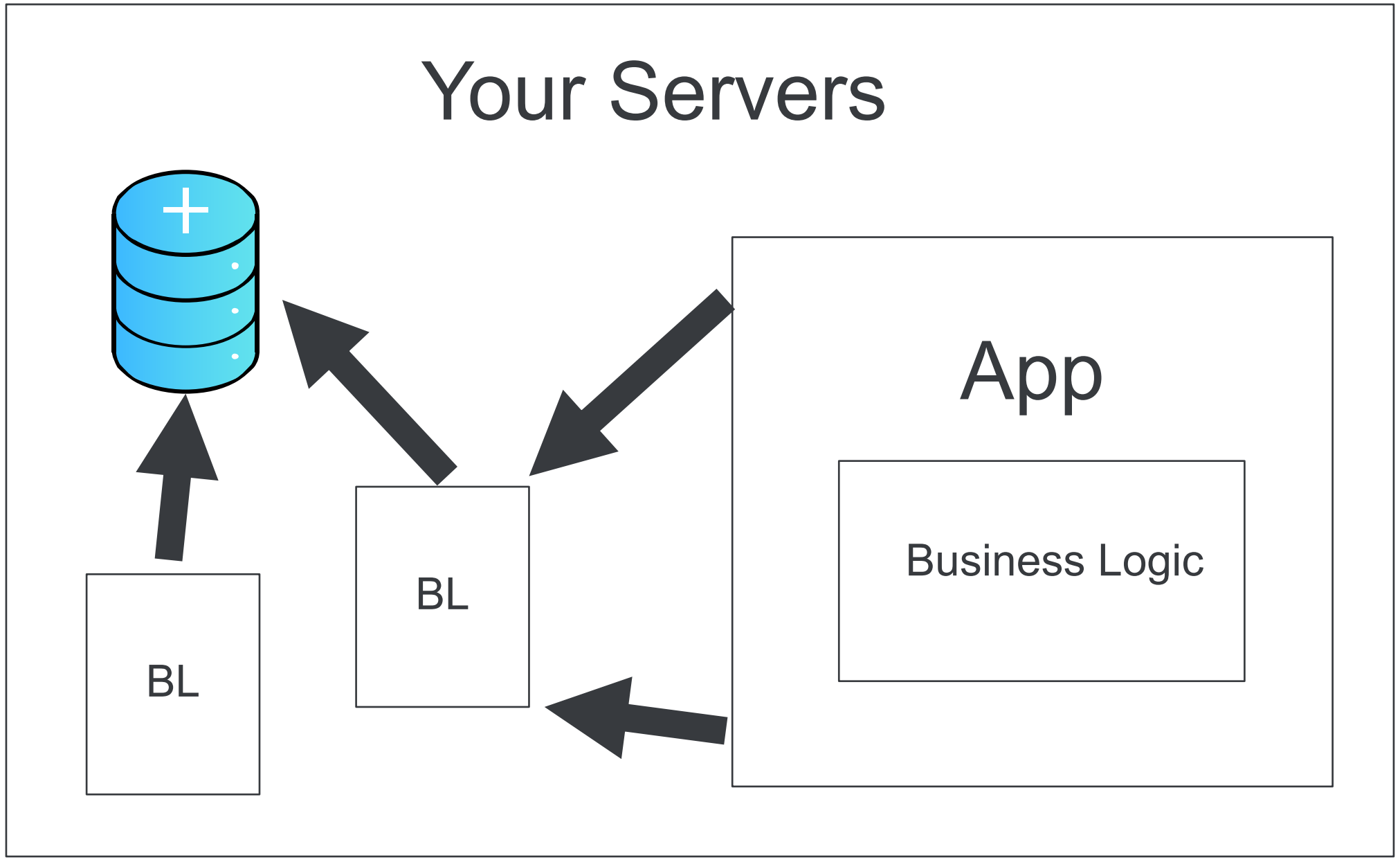

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- Consistent pricing

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Benefits of Kinvey

- Consistent pricing

- A powerful suite of data connectors

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Benefits of Kinvey

- Consistent pricing

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- Built-in compliance

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Built-in Compliance

- HIPAA
- SOC2
- GDPR
- Sarbanes-Oxley

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Demos!

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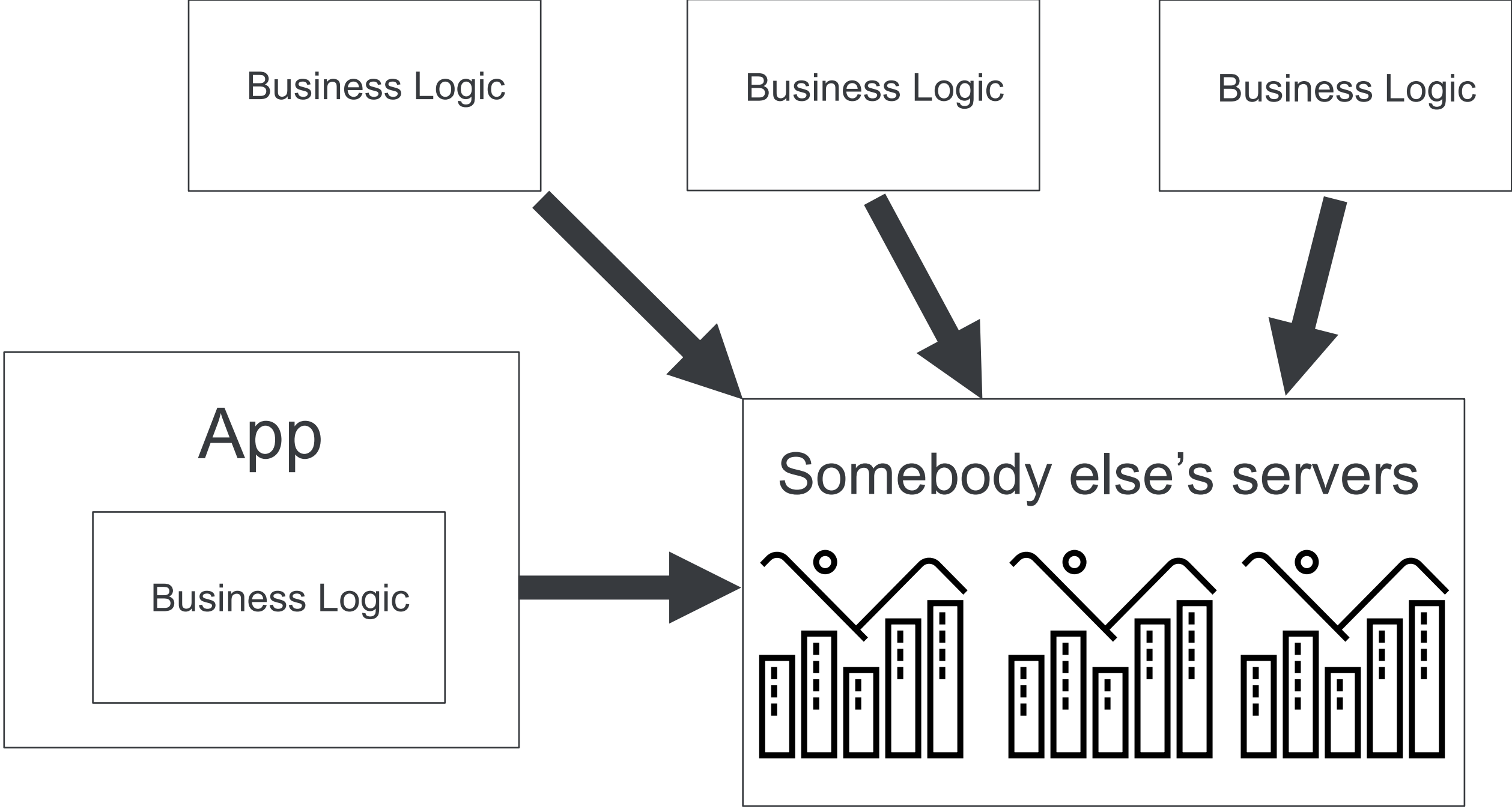

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Business Logic

App

Business Logic

Somebody else's servers

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Thanks!

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