

ByteBazaar

Technologie & Gadgets

E-Commerce

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INTRODUCTION

The growth of e-commerce created ...



Problems like downtime,
performance during peak
traffic



Lack of
observability for
problem analysis

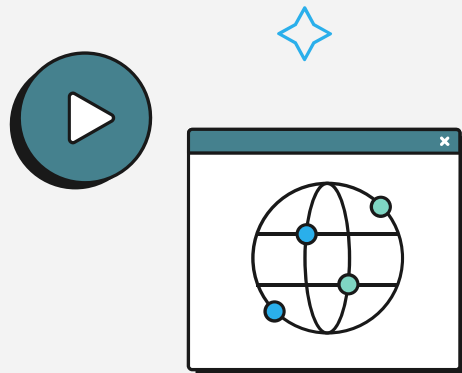
The need for scalability

COMPETITION



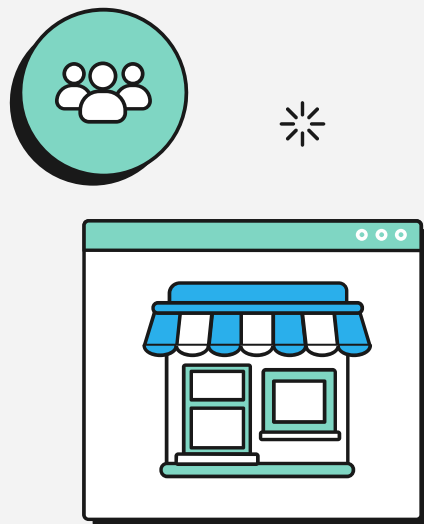
Revive Store

Lack of diversity of products



Amazon (Tech Parts)

Complex UI



NewEgg

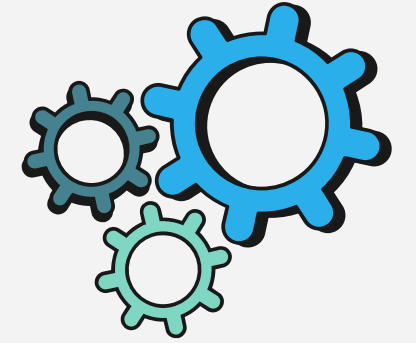
High prices



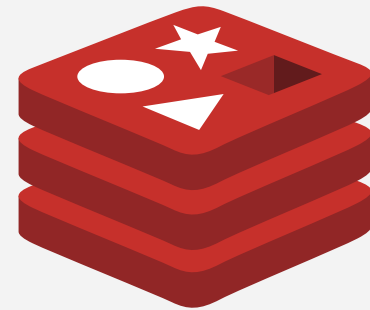
WHY BYTEBAZAAR!?

	ByteBazaar	ReviveStore	Amazon	NewEgg
Focus in Tecnology	✓	✗	✗	✓
Scalability and Performance	✓	✗	✓	✗
Monitoring and Observability	✓	✗	✓	✗
Assurance	✓	✓	✗	✗

TECHNOLOGY STACK



Backend



Frontend



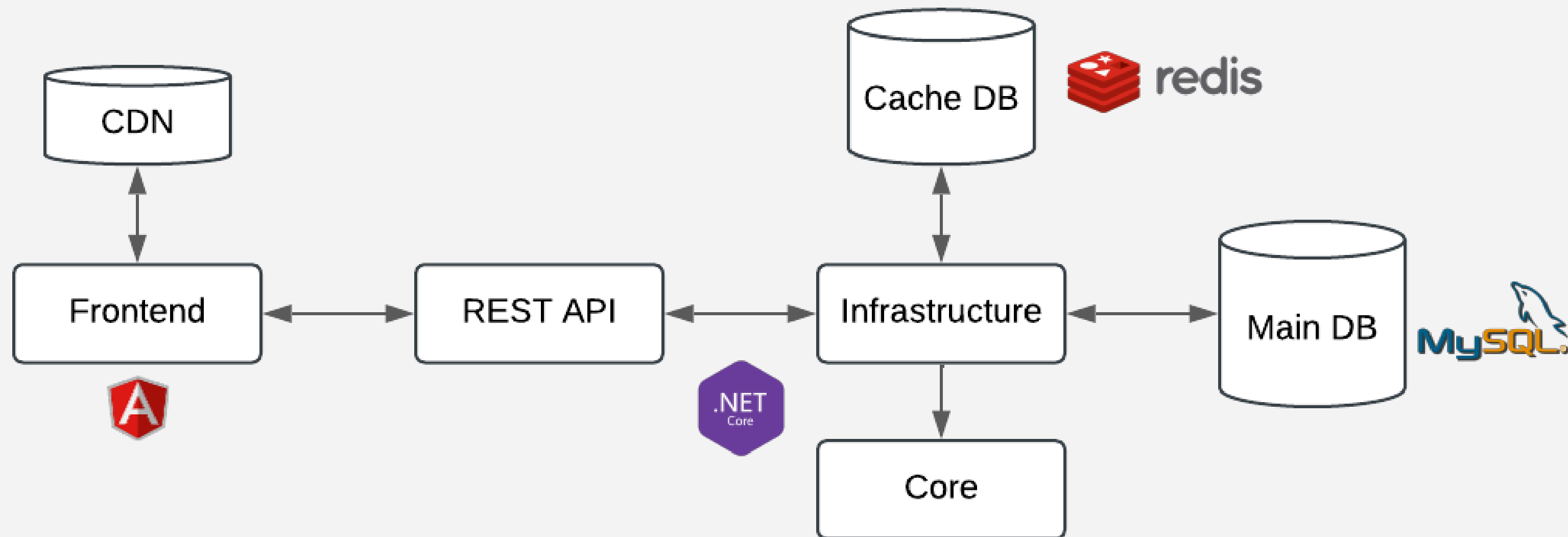
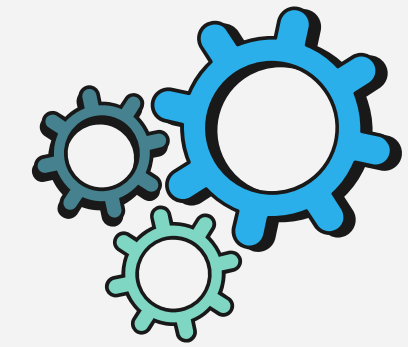
DevOps



Monitoring



SYSTEM ARCHITECTURE



OUR GOALS



**Maintain and
Manage**

Observability

Scalability

**High
Availability**

Fault Tolerance

CI/CD Pipelines

HARDWARE REQUIREMENTS

Backend e API

- **Instances:** Scalable
- **RAM:** 8GB per instance
- **Scalability:** Load Balancer with auto-scaling

CDN

- **RAM:** 16GB
- **CPU:** 4vCPU
- **Storage:** 100GB

Frontend

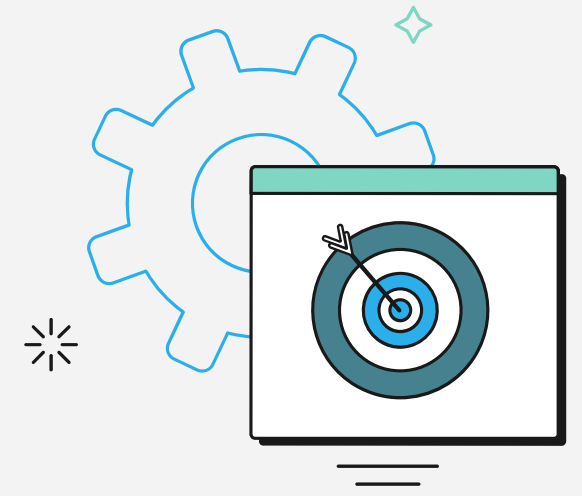
- **RAM:** 8GB
- **CPU:** 4vCPU
- **Storage:** 40GB, HDD

Main Database

- **RAM:** 16GB
- **Storage:** 100GB SSD scalable

Cache Database

- **RAM:** 8GB
- **CPU:** 4vCPU
- **Storage:** 40GB, SSD
- **Retention Time:** 24h





Thanks!

Does anyone have any questions?