App should be easy to deploy, then scale up and scale down depending up on the traffic, and free from all technological dependencies.

What is that one architecture that will satisfy the business requirements?

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MicroServices

Concept

Objectives

1. What is MicroService?

2. Characteristics of MicroService Architecture

3. Advantages & Disadvantages

4. MicroService vs. Monolithic

5. Runtime environment ?

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MicroService

Creating smaller and multiple component services which are built to handled a very specific concern.

Multiple services makeup application

Characteristics

Autonomous

Specialized

Accounts

Payments

Shipping

Inventory

Advantages

Flexible Scaling

Easy Deployment

Technological Freedom

Reusable Code

Resilience

Disadvantages

Spawning

Maintenance

Duplicate Code

Network Performance

Monolithic

- Processes are tightly coupled and run as a single service

- Adding features becomes more complex

- Adds risk for application availability

MicroServices

- One service per process

- Each service performs one single function

- Can be updated, deployed, and scaled rapidly to meet demand

Where do you run MicroServices?

Physical Servers | Virtual Machines | Containers

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Summary

1. What is MicroService?

2. Characteristics of MicroService Architecture

3. Advantages & Disadvantages

4. MicroService vs. Monolithic

5. Runtime environment

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Coming up...

Containers