Microservices in Software development

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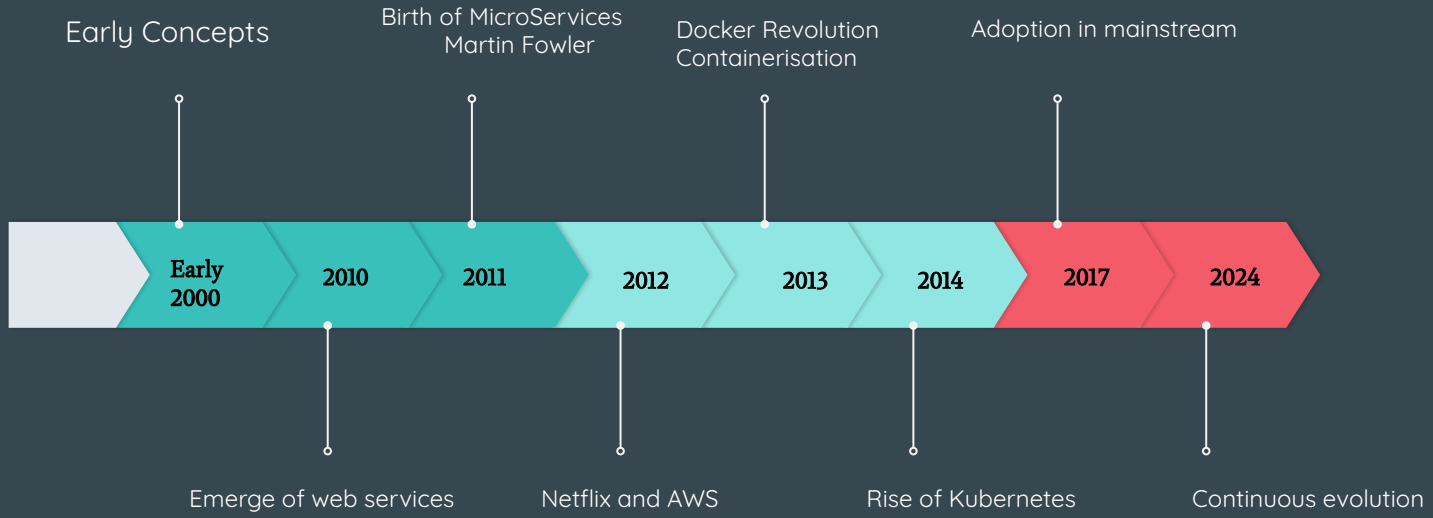
Presentation Flow

Rise of Microservices



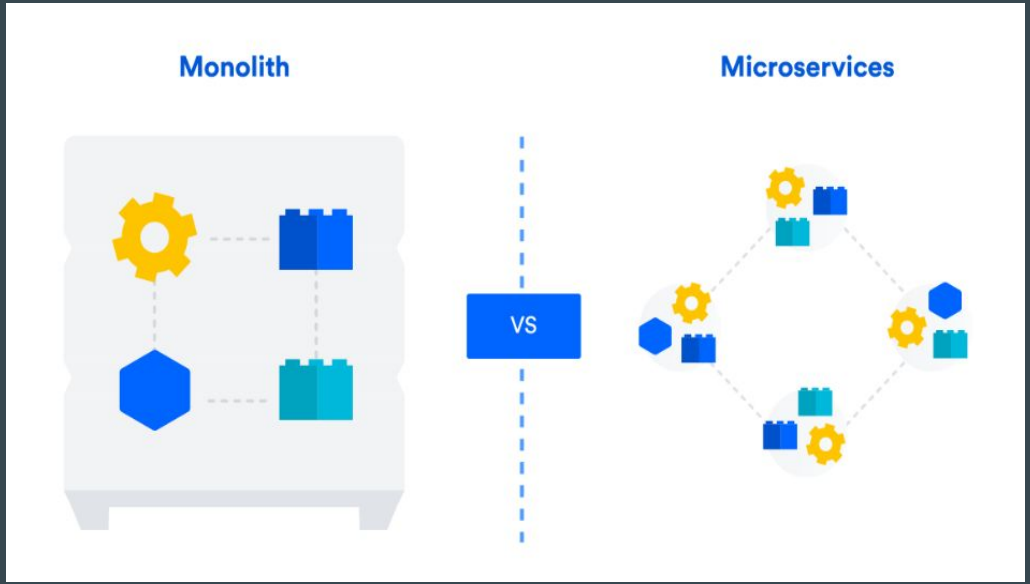
- Netflix was an early adopter of microservices architecture
- Netflix, a major player in online streaming, embraced microservices architecture to enhance scalability and resilience.
- Other big examples include spotify, Amazon, eBay

Market Shares

- According to the 2021 State of Microservices report, 88% of respondents reported using microservices in their organization.
- The adoption of microservices has been steadily increasing, with a 64% increase in adoption from 2018 to 2021.

Secret Behind its success?

Monolithic architecture vs microservices architecture



In a monolithic architecture, all the functions and services within an application are locked together, operating as a single unit.

In microservices architectures, applications are built so that each core function within the app runs independently. This allows development teams to build and update new components to meet changing business needs without disrupting the application as a whole.

What is microservices

A microservices architecture splits an application into a series of independently deployable services that communicate through APIs. This allows each individual service to be deployed and scaled independently.

Microservices

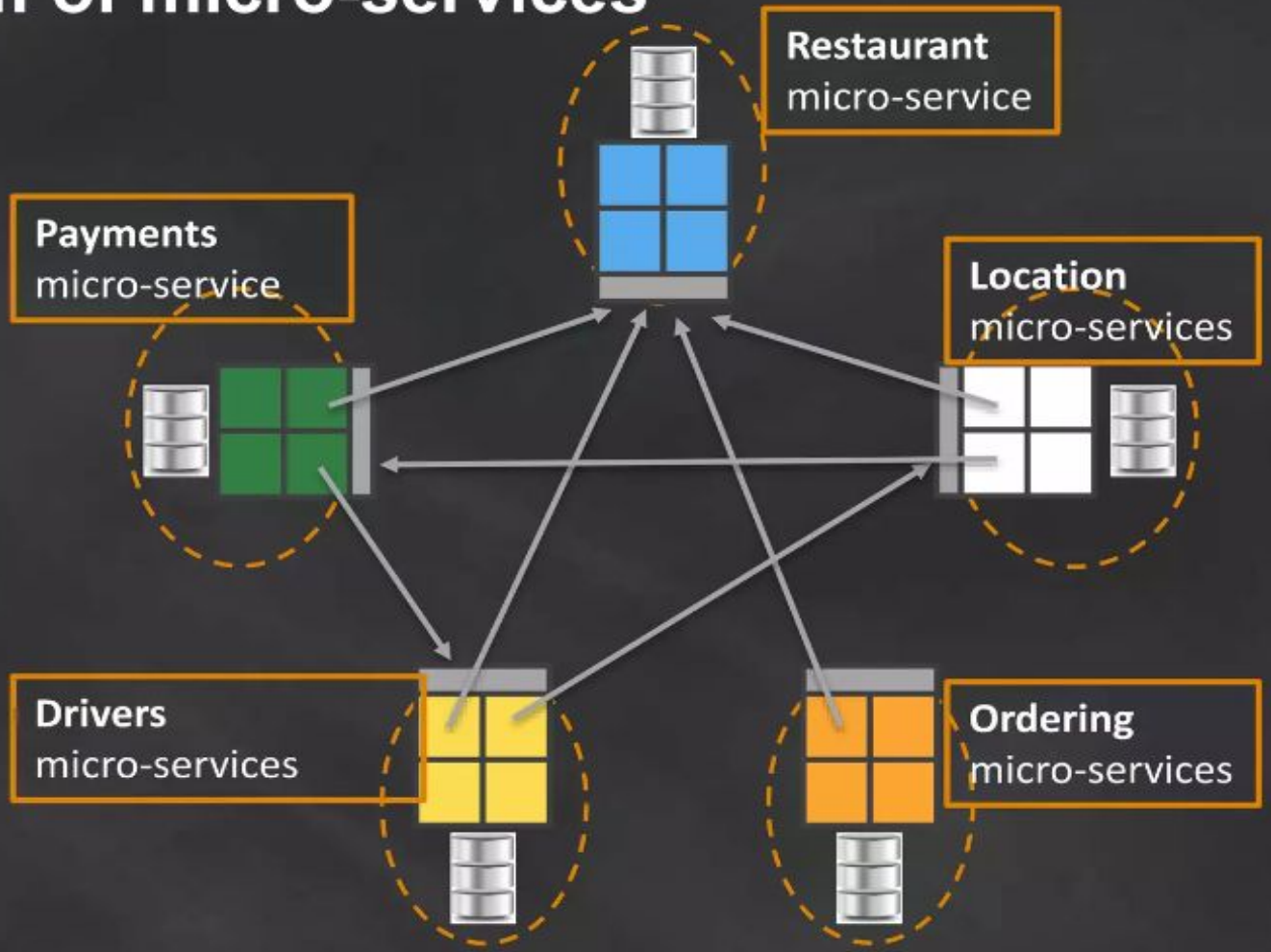
"service-oriented architecture
composed of
loosely coupled elements
that have
bounded contexts"

Services communicate with each other over the network

You can update the services independently; updating one service doesn't require changing any other services.

Self-contained; you can update the code without knowing anything about the internals of other microservices

Ecosystem of micro-services



Scalable Ecommerce Website

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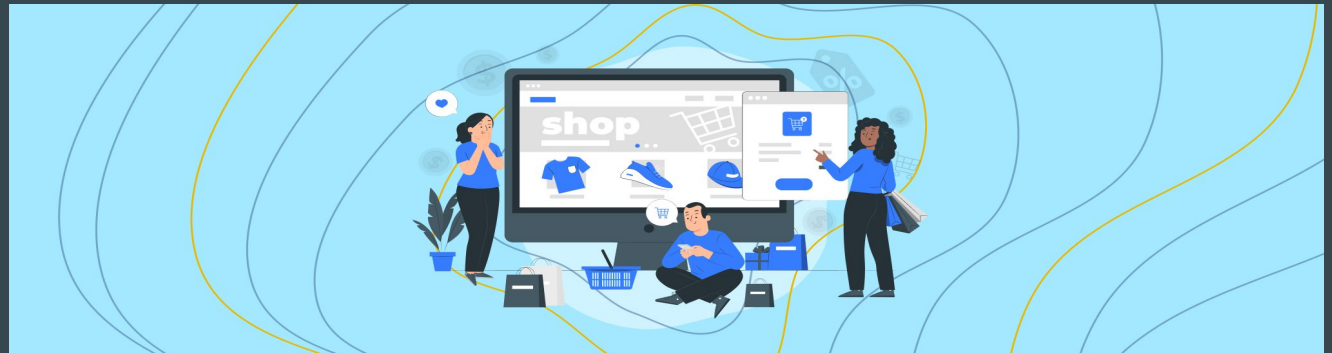
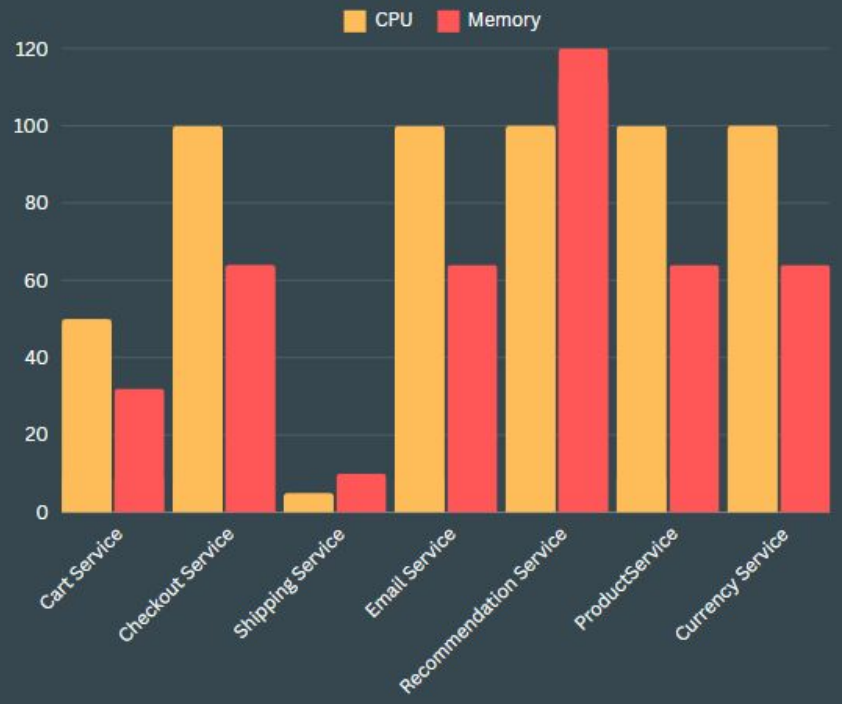
Ecommerce Website

- In the ever-growing market of online sell and purchase the necessity of more and more ecommerce website increases day by day.
- A website to buy and sell products with ease.
- Customers will be able to add products in their cart and then will be able to purchase all at once.



Resources given



Performance

Resources given

Performance

Resources given

Performance

Questions?

Thank You