

## What are Microservices after all?



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Microservices are processes/workflows

that are

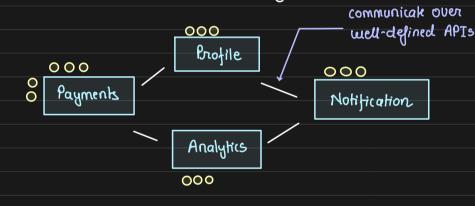
- Highly maintainable

- loosely coupled

Microservices are like reusable functions, but bigger and over network

Microservices are hypically structured around

Business needs and are owned by a small kam



With microservices, we are trying to optimize

- stapid feature delivery
- eary to uprade the stack

Microservices are no silver bullet

and have several drawbacks

Precursor to microservices is Monolith Architecture

Almost all product start monolith and slowly move to microservices



Business logic of payments, profile, orders, logistics are all part of the same JAR/codebase/Binary that are deployed across all

the servers.

Advantages simple to develop, build, test, and scale deployed across all size cverything part all modules part

of same codebase of same artifact

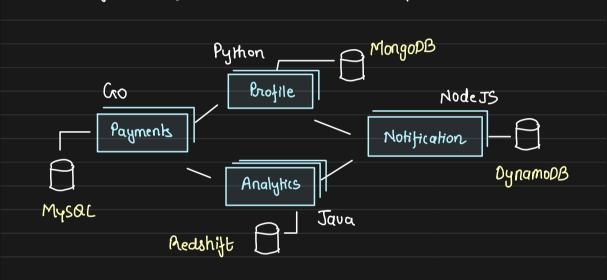
Disadvantages

- Tight coupling blw modules
- Bulky container / binary / deployment artifact
- Homogeneous single Tech Stack - Bug in one module affects others
- Scaling one module stequires scaling everything
- Scaling one module stequires scaling everyone large monolithic codebase is intimidating

and eventually slows down delivery

Monolith to microservices

Club functions that do related work and create a microservice Start Small, with few modules and continue to separt them. Eventually leading to architecture like this



Characteristics of Microservices evolutionary
- autonomous - decisions and operations are independent

- specialized → focus on solving one problem really well
- built for business organized around business needs and learns

Advantages of adopting microservices

- Agility -> small independent kams moving faster

- Scaling - Scaling is precise, independent and owned by kam

- Tech Ercedom -> Picking right stack for the service

- Simple to understand → limited responsibilities

simple to allaeisiona - unitra stesportstottines

- Reusability of resources -> build once, use across spectrum
- Faster deject isolation -> isolak the failed service quickly

"cincuit breaker"

- do not stant with microservices

Anti-patterns

- do not make services too small

- use as many tools as possible, do not build from scratch