

Why microservices?



BY ARPIT BHAYANI

Why Microsenvices?

What are microservices?

Small, autonomous, harmonic

Core idea: Divide and Conquer

Break a product into manageable

Sub-problems and tackle each

one of them Separalely.

* Each sub-problem is solved separakly and optimally

Why microsenvices?

Idea Prototype MVP Product

- Codebase grows over time

- difficult to Co-ordinate

- change in one module by one kam can break others
- reduces product development velocity

ARPIT BHAYANI

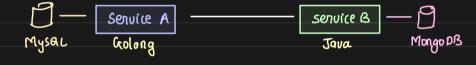
- Scaling becomes predictable

Grach Service Scales independently

Search might be on 10 instances

While Auth on 20 7 payments on 3

- Autonomous & isolation
 - your own tech stack, networking interface, protocols



- pure client - server relationship

Service A contract service B

- you change your own code, deploy when you want
- if one service is down.

you might still have a partially fundianal operational system

- Upgrades are simpler Better Language You can evolve your service to > Better DB Better infra transparently Seamless so long as API continacts one intact How to fence Microsenvices? We know it needs to have "Small" Set of stesponsibilities, but how small? Too big is a problem -> same as monolith Too small is a problem - inter leam, inter service dependency Live Streaming — Feature-cuise — Authentication Payments Notification Delivery Nok: Each microservice may have

Sub-component / processes

ARPIT BHAYANI