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# MICROSERVICES ARCHITECTURE

- Why Microservices
- What is Microservices Architecture
- Features of Microservices
- Advantages of Microservices
- Companies Using Microservices

EXPLAINED



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## Why we need Microservices ?

Before Microservices → Monolithic Architecture

Monolithic Arch is like whole software is composed in single piece.

- ↳ All programs are interconnected and interdependent in monolithic architecture.
- ↳ Its a tightly coupled Architecture.

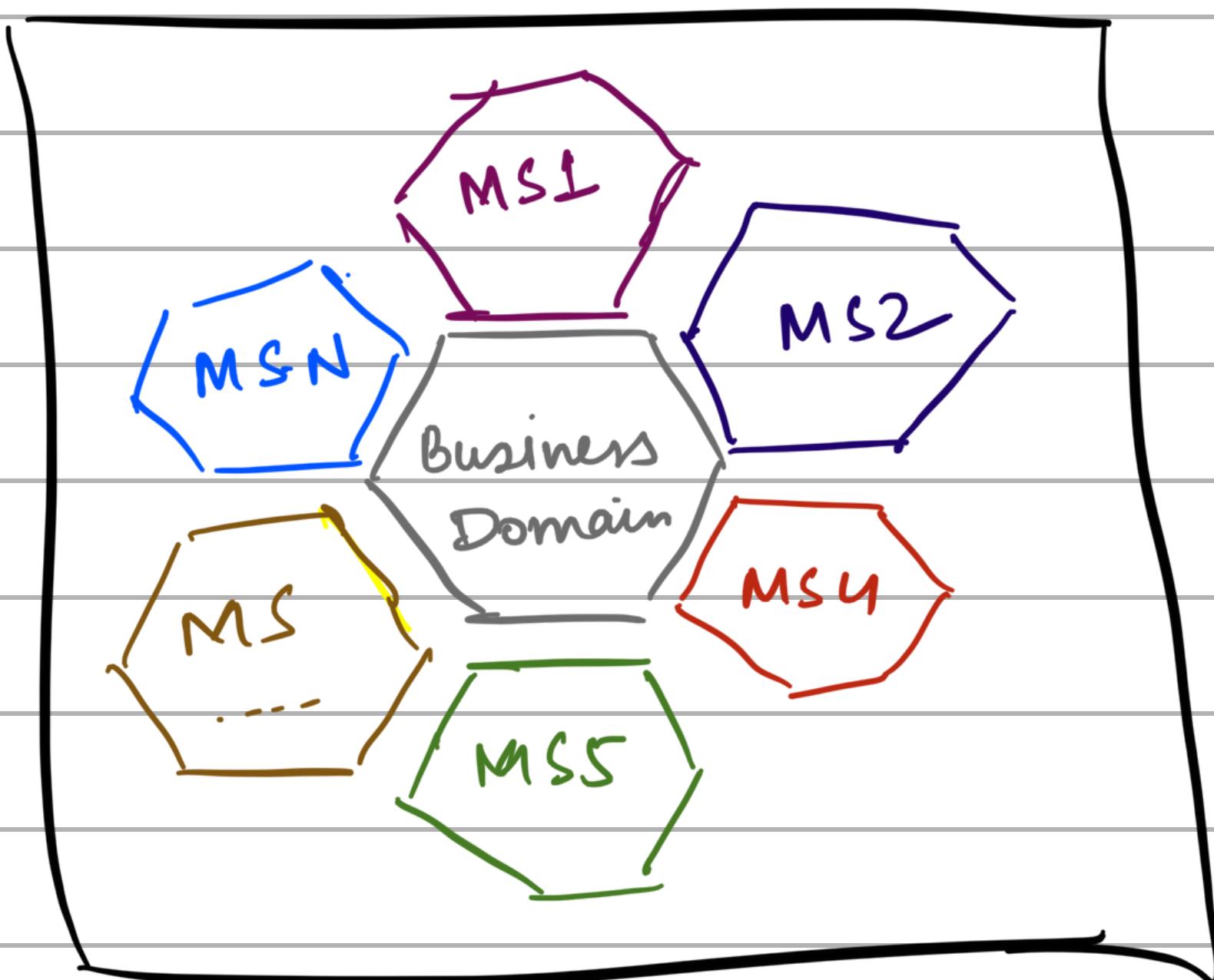
\* Major cons of Monolithic Architecture are :

- Difficult to understand and modify the large and complex applications.
- Development will be slowed down over time .
- Quality of code degrades over time .
- BLOCKS CONTINUOUS DEVELOPMENT :
  - ↳ To deploy small change , you will have to deploy whole application which interrupt the service .

- Unscalable : different services might require different resources and capacity .  
but since its one app , so scaling will be done for all services.
- Unreliable : if any one thing failed whole app will fail , it makes highly unstable .
- Inflexible : can't adapt new tech and framework easily -

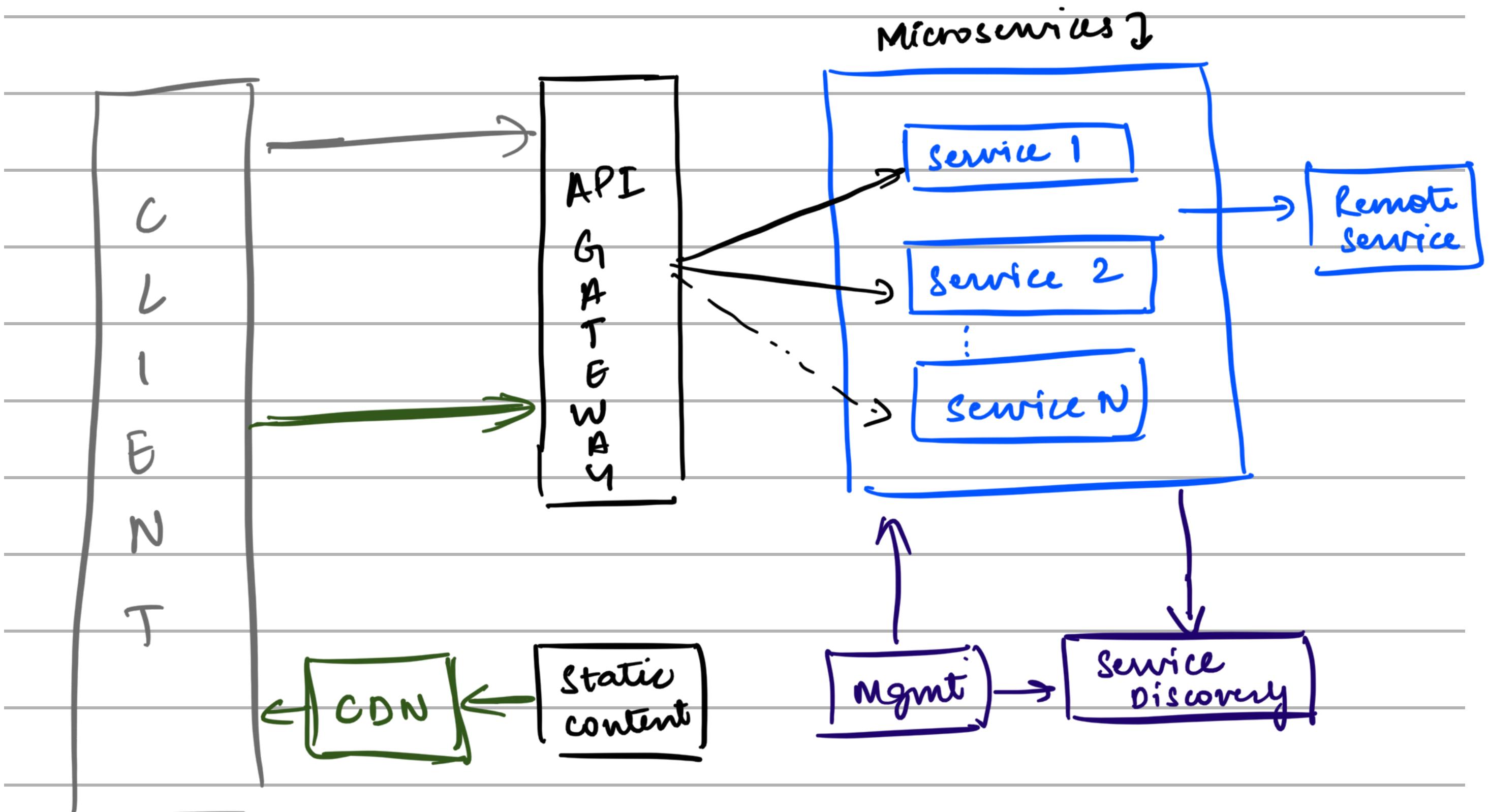
# What is Microservice Architecture ?

Microservices / Microservice Arch is an architectural style that structures application as a collection of small autonomous services modelled around a Business Domain .



- \* Each Service is Self contained and implements a Single Business Capability.
- \* Communication b/w each microservice is Stateless communication.

# Architecture



- \* Each service is responsible for persistence of its own data.
- \* Implementation is hidden from other services.
- \* Tech stack can be different for diff services.

\* FEATURES of Microservices Architecture:

1. Small Focused :

2. Loosely Coupled

3. Language Neutral

4. Bounded Context

→ No need of understanding  
the implementation of other  
microservice by one microservice.

ADVANTAGES

\* Independent Deployment & Development

\* Mixed Tech Stack

\* Fault Isolation → One service goes down  
whole app will not.

\* Granular Scaling.

\* Companies Using Microservices

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**GOOD LUCK**

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*Ace the best!*

