

# Best Practices to make service integration easy



BY ARPIT BHAYANI

### Preparing for integration

Running microservices in isolation does not make a lot of sense

They work together with other services to get things done

So, how to get
microservices integration
 right ??

Forward and Backward Compatability

Make changes to your services, such that the others don't need

to change at all.

Key places where you need to keep a close eye

- database migrations
- API responses
- Messages for async communication

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This is compatability

Some do's and don'ts

- never change the type of the column / attribute

Linstead prefer creating a new column with new type

this would help us avoid forced changes

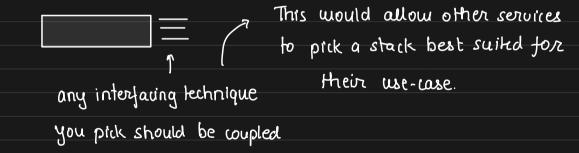
- never delete a column attribute

instead deprecate it and give your dependent services enough time to remove dependency on it

Make API interface tech agnostic

with underlying tech

Things evolve very quickly in the world of 5/w development



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For example, an RPC marshalling format that would only work when other service is using Java along with a particular lib Dead Simple Consumption Microservices are built to interact with other microservices. Hence, it should by VERY simple for other services to talk to your service It would not matter at all if - simple API you have the most optimized - Simple data format and beautiful code, but a very

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poor interface practices

- common protocols

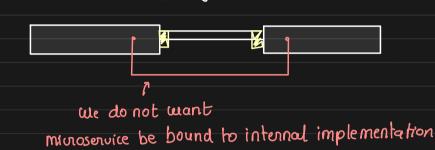
BE CONSUMER CENTRIC

Do not use weird formak, API rouks,

interfacing protocols. Heep it Simple!

Hide Internal Implementation Details

Never let the interfacing services learn internal implementation



eg: how DB is structured

how messages are passed

direct linking nested jans etc.

All communication should happen over public API interface This would allow us to upgrade internal & implementation

logic without breaking or being dependent on other services

\* This also affect Technical Debt which would even heally

reduce shipping velocity

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