# History of Microservices

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Microservices are a result of problems with

two architecture paradigms:
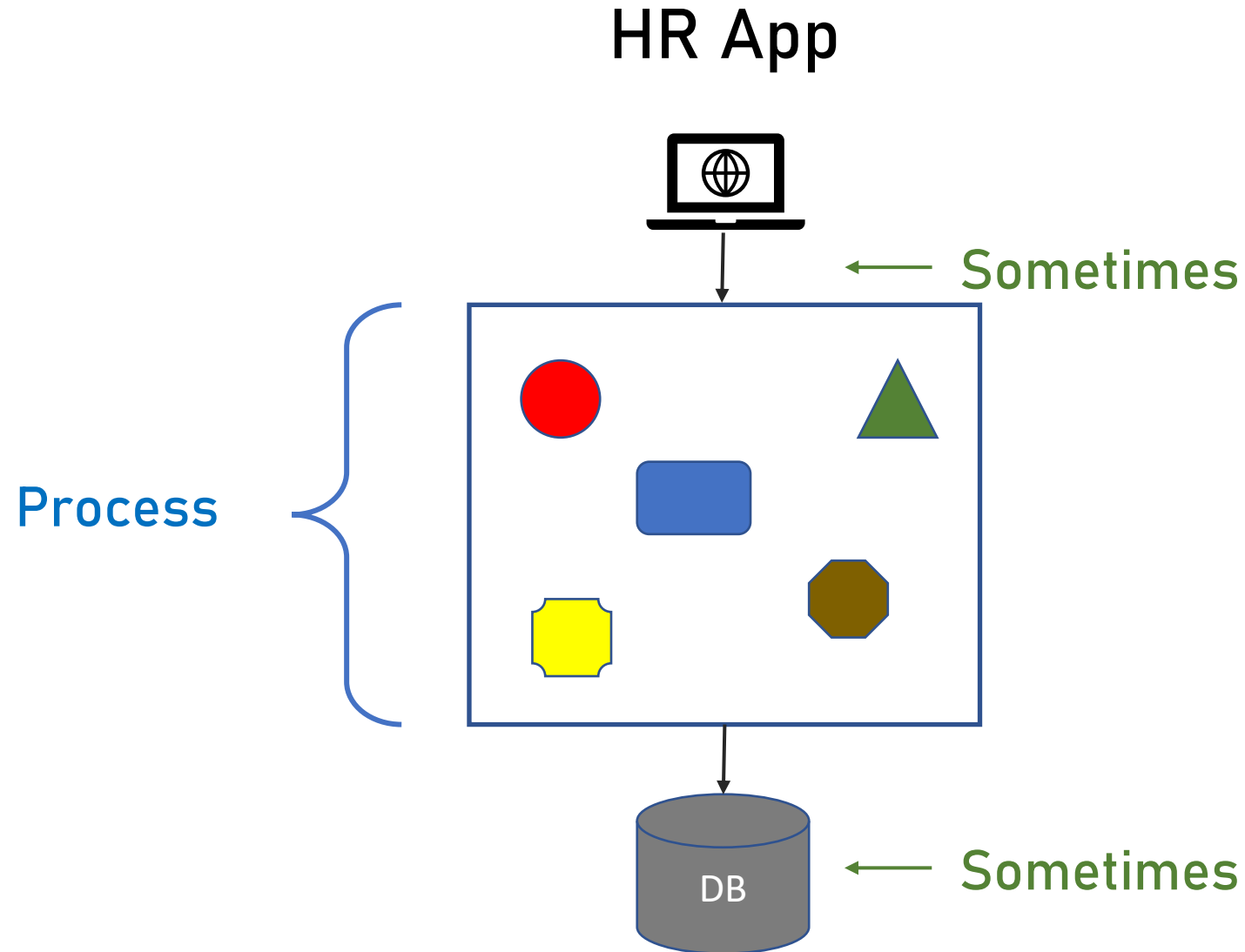
– Monolith

– SOA

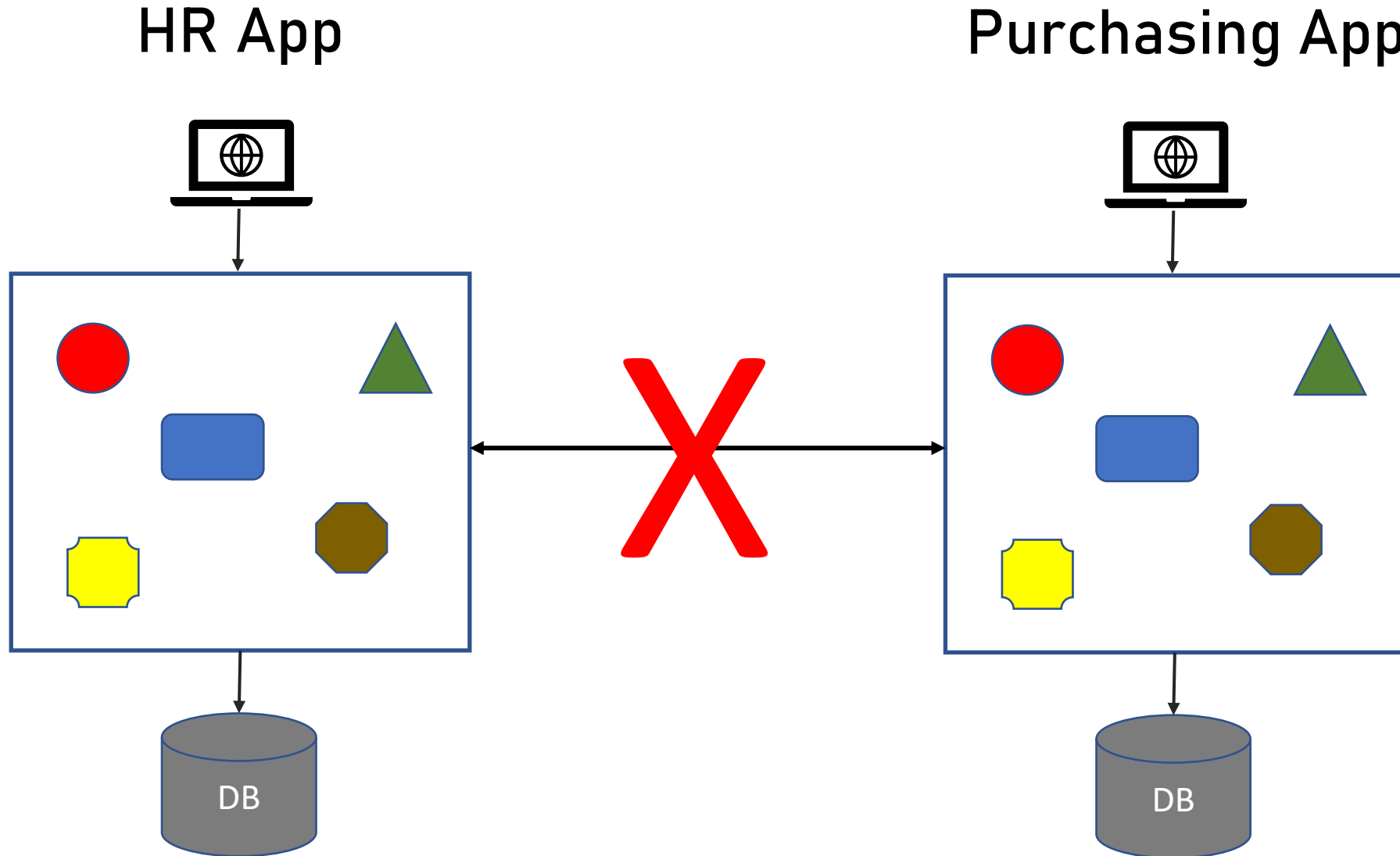Monolith

# Monolith Architecture

- The original architecture

- All software components are executed in a single process

- No distribution of any kind

- Strong coupling between all classes

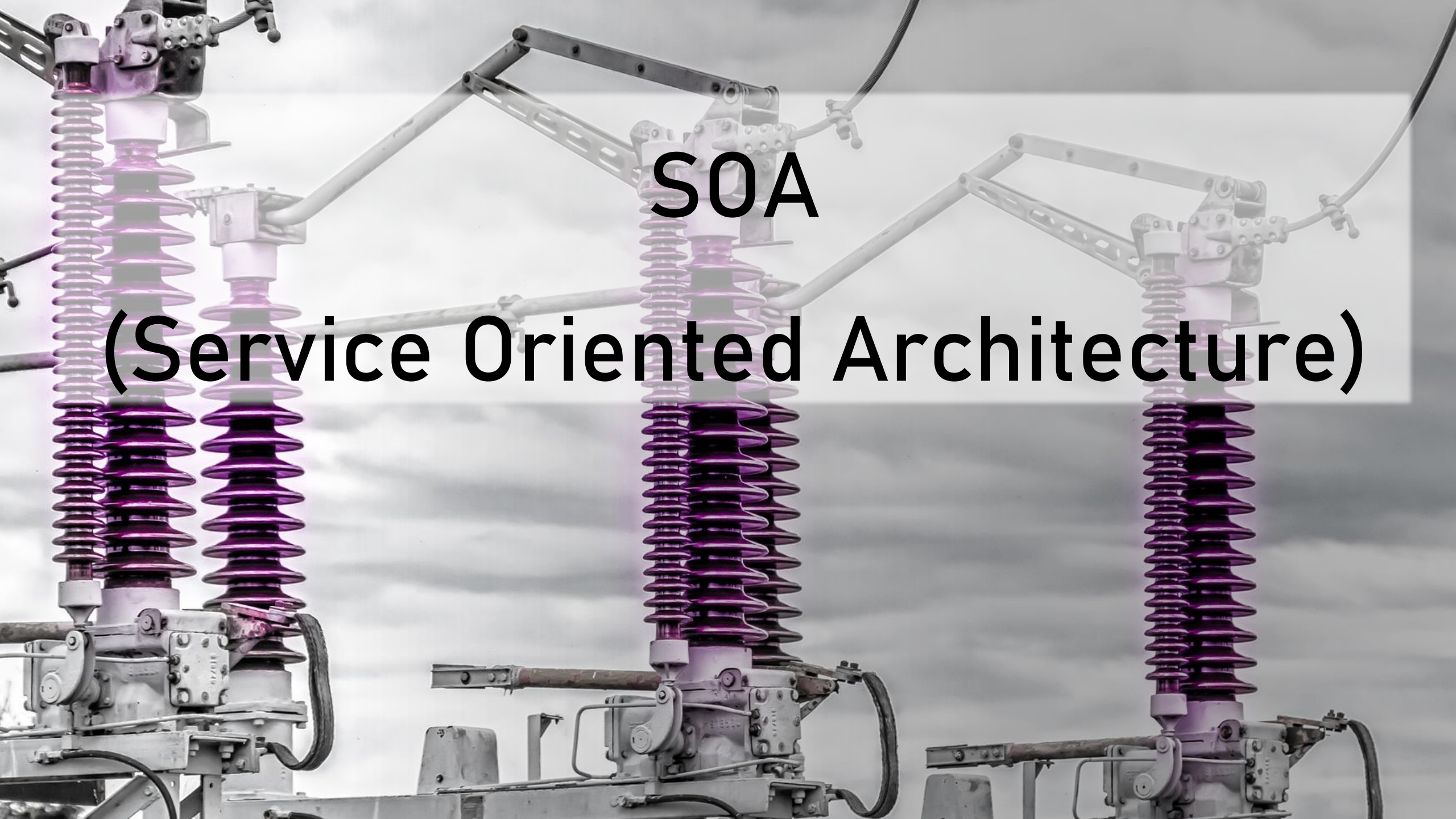- Usually implemented as Silo

# Monolith Architecture – Example



HR App

Process

Sometimes

Sometimes

DB

# Monolith Architecture – Example

HR App

Purchasing App

# Monolith Architecture Pros

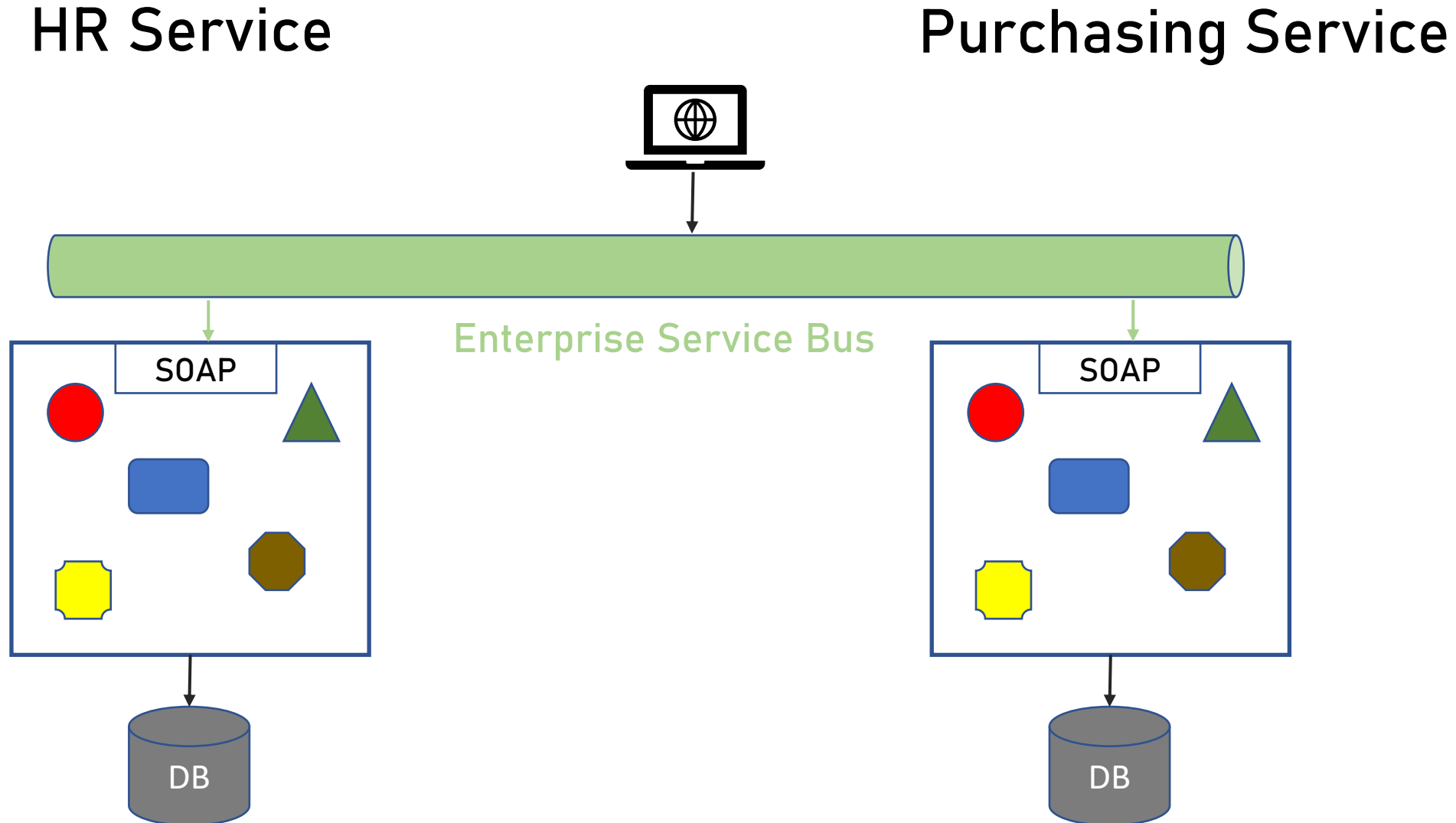- Easier to design

- Performance

SOA

(Service Oriented Architecture)

# Service Oriented Architecture

- First coined in 1998

- Apps are services exposing functionality to the outside world

- Services expose metadata to declare their functionality

- Usually implemented using SOAP & WSDL

- Usually implemented with ESB

# SOA Architecture – Example

HR Service

Purchasing Service

Enterprise Service Bus

SOAP

SOAP

DB

DB

# SOA Pros

- Sharing Data & Functionality

- Polyglot Between Services