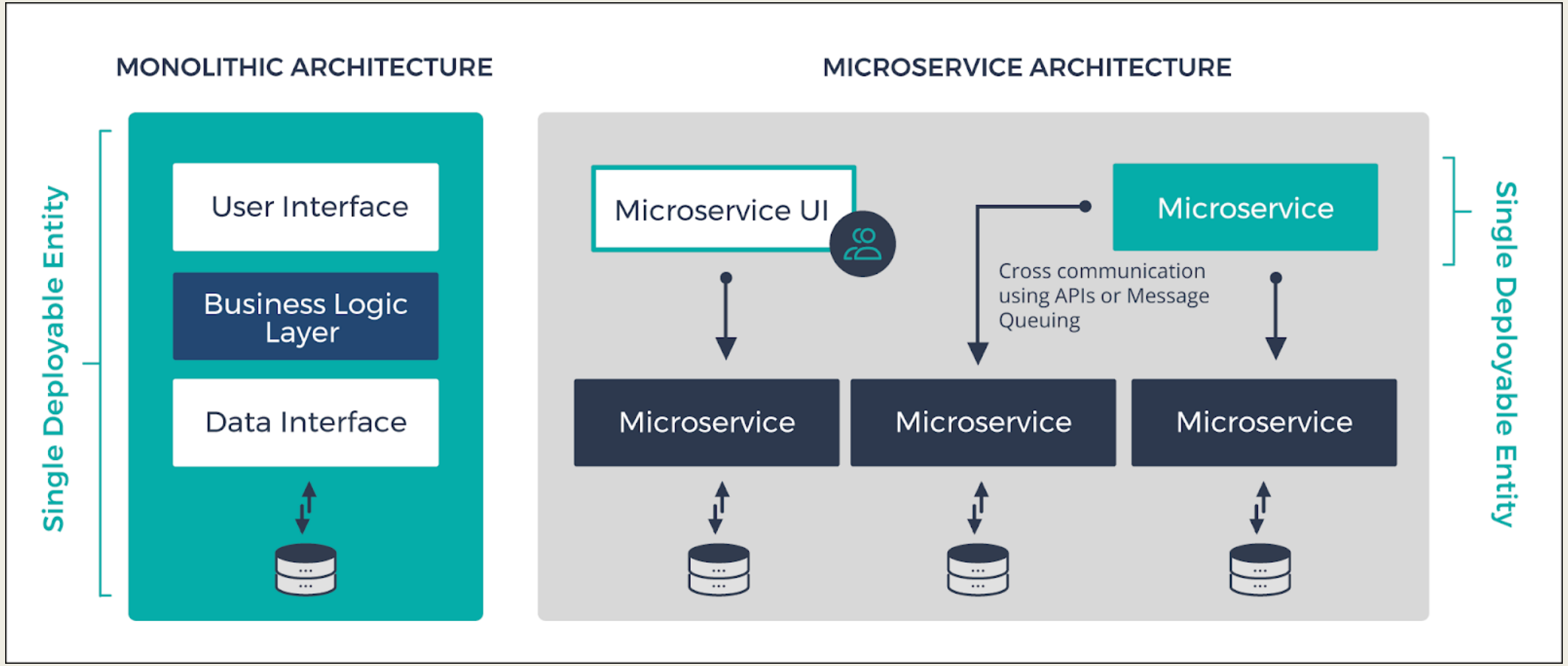
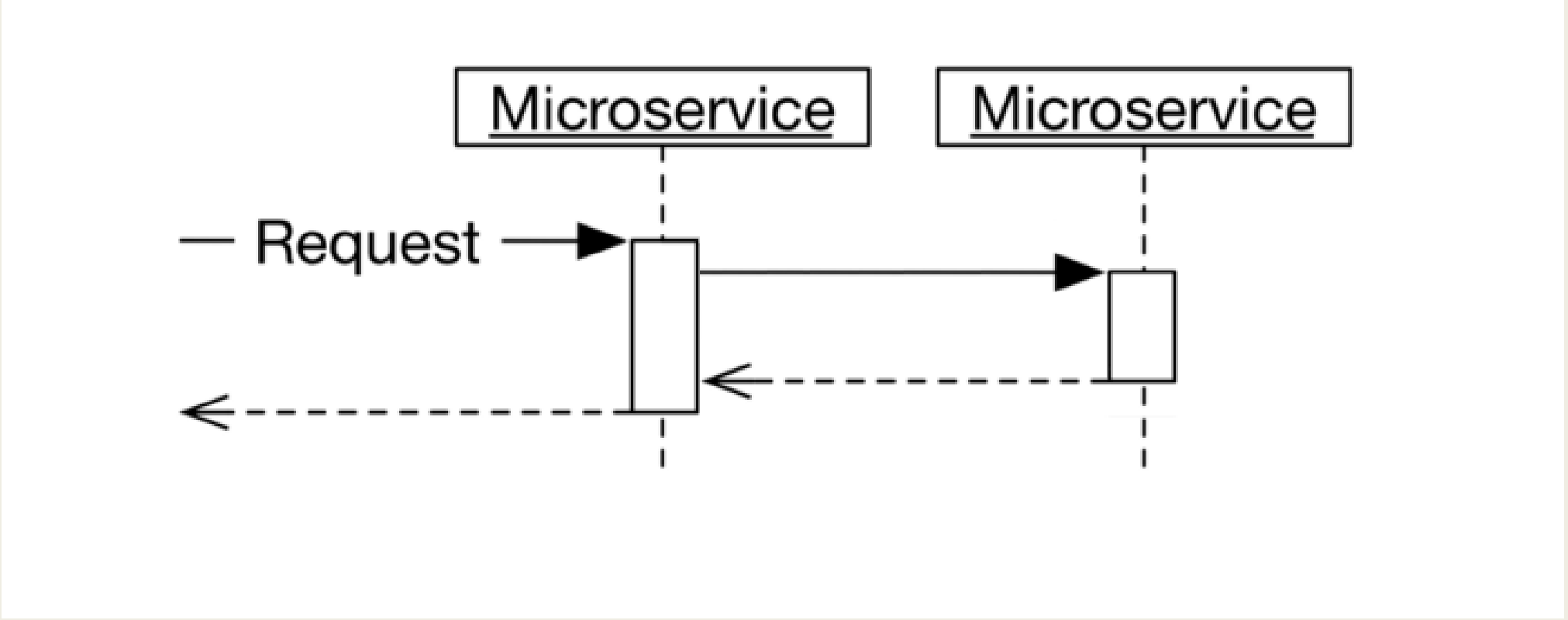
PLATTFORM ARCHITEKTUREN

Von Enes Malik Sen

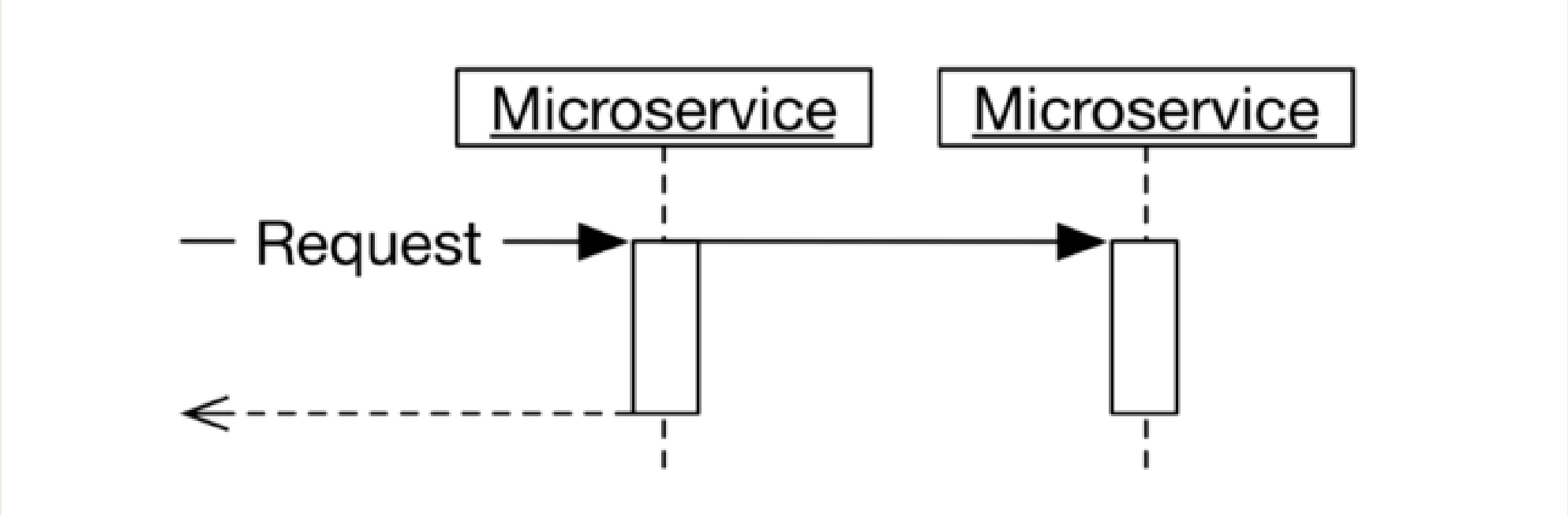
Microservice Architektur



Synchrone Kommunikation



Asynchrone Kommunikation



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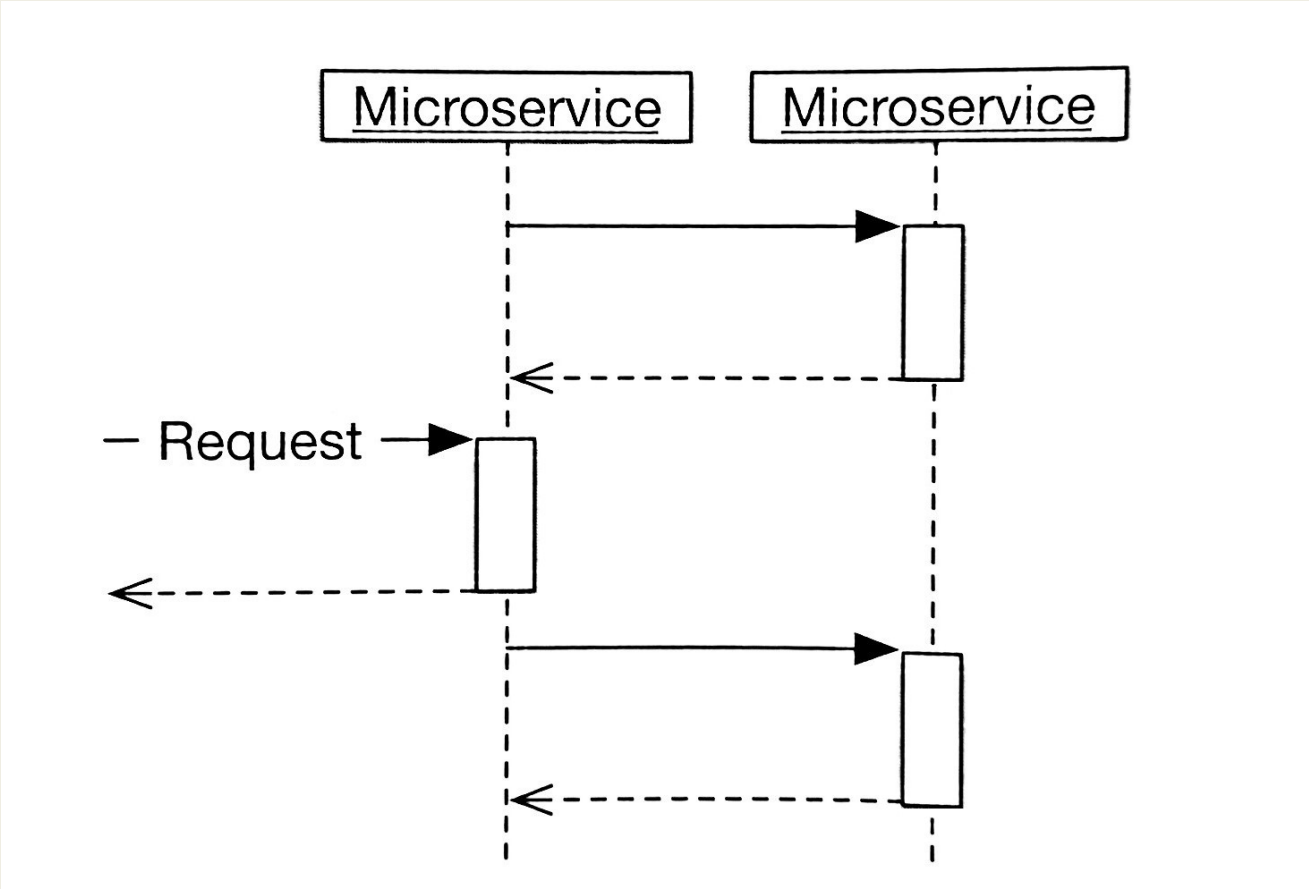
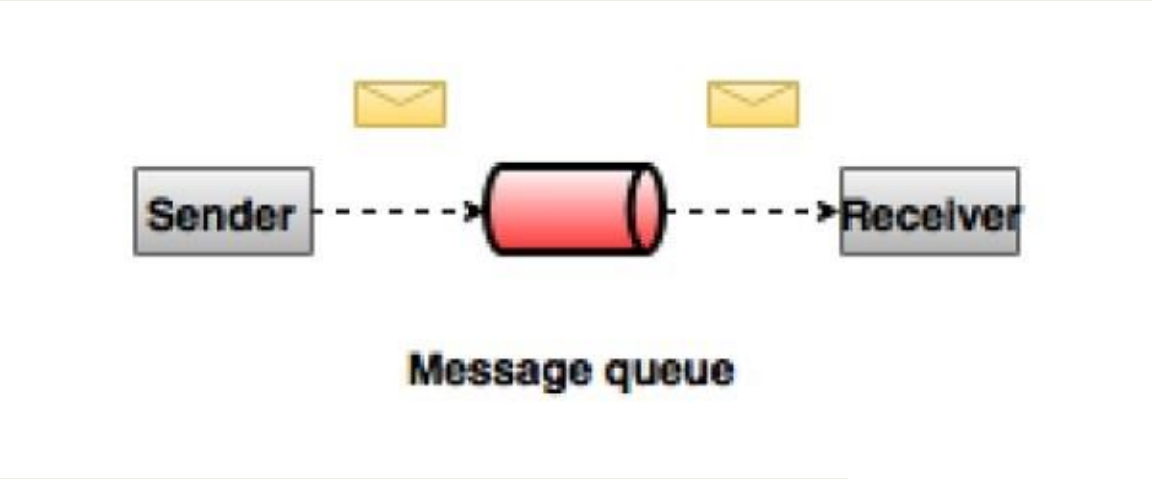
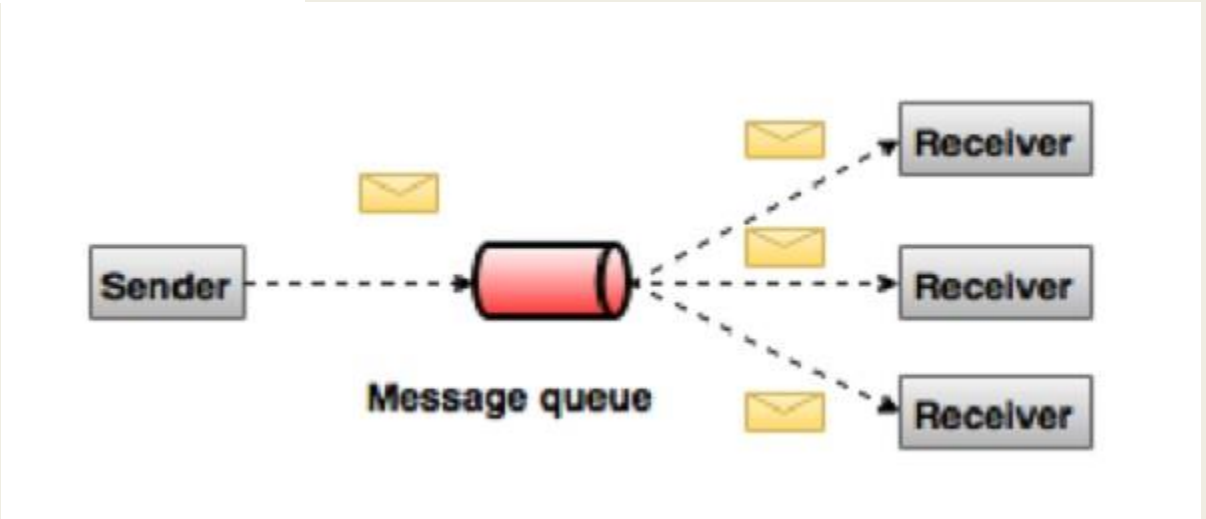
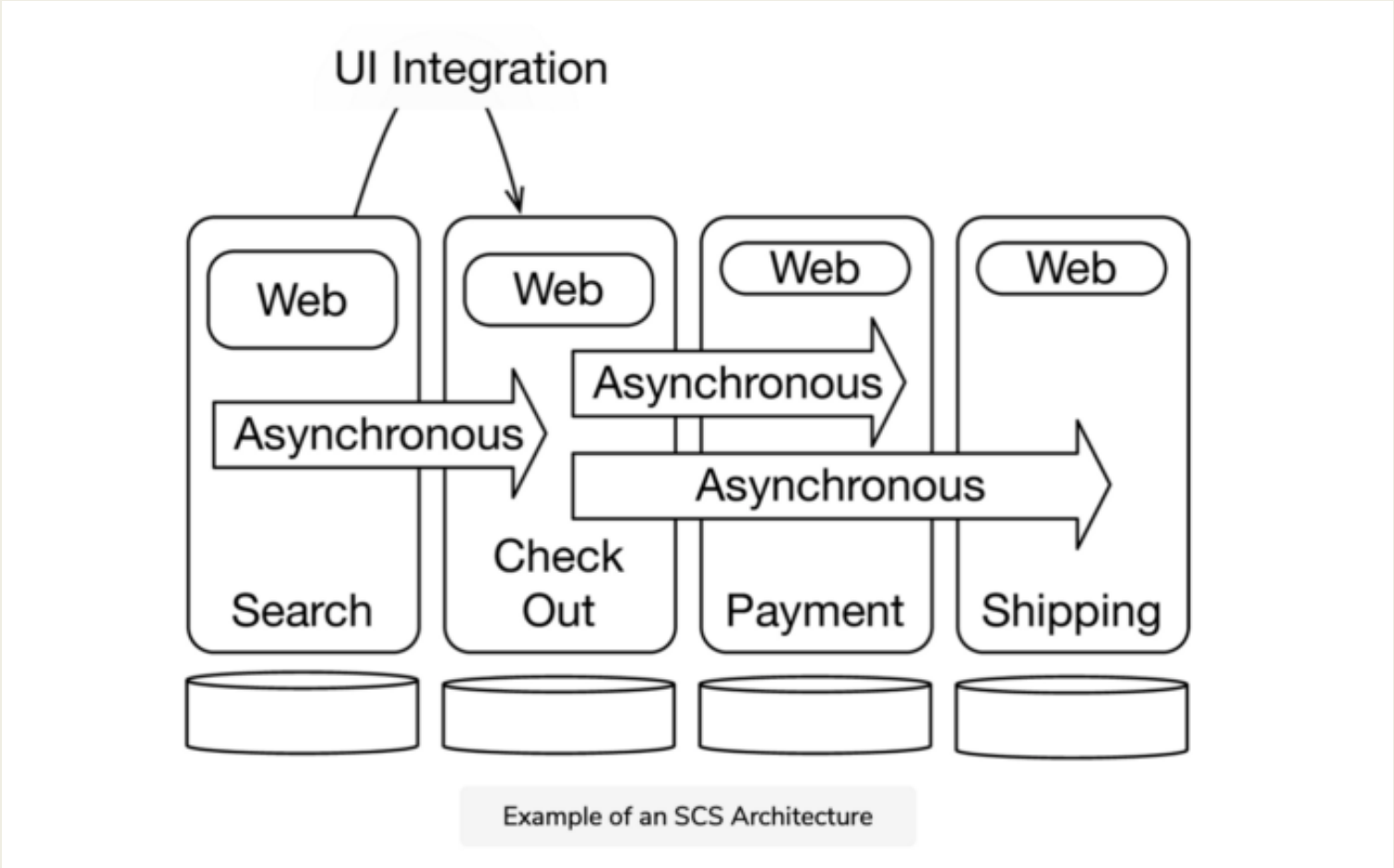


Messaging System





Self-Contained Systems (SCS)



Example of an SCS Architecture

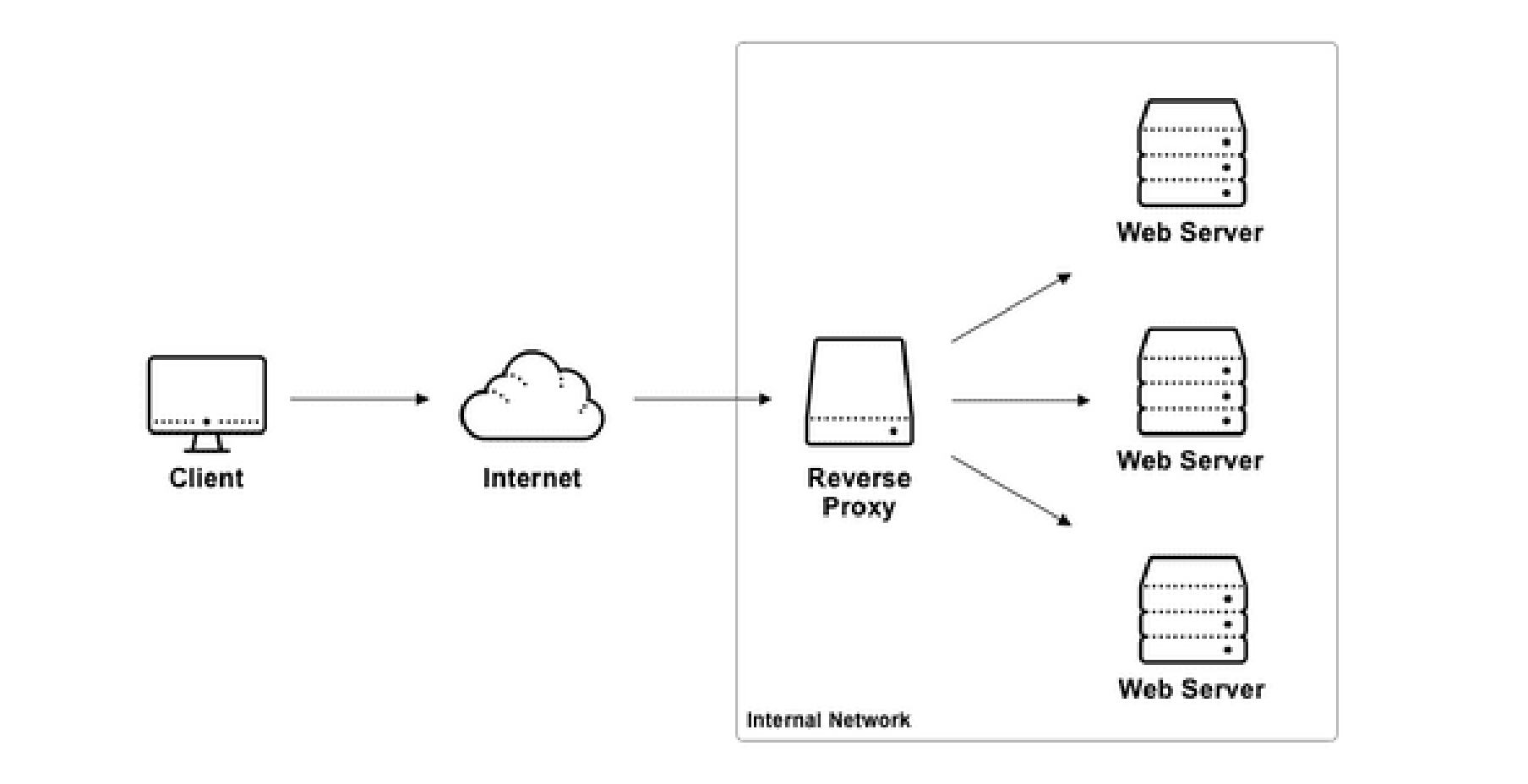
Microservice vs. SCS

- Viele Gemeinsamkeiten
- Microservices sind meistens kleiner
  - *Ein SCS kann mehrere Microservices implementieren*
- SCS implementiert UI, Logik und Daten
  - *Microservices trennen diese meistens*
- SCS sollten untereinander nicht synchron Kommunizieren
  - *für Microservices ist dies erlaubt*

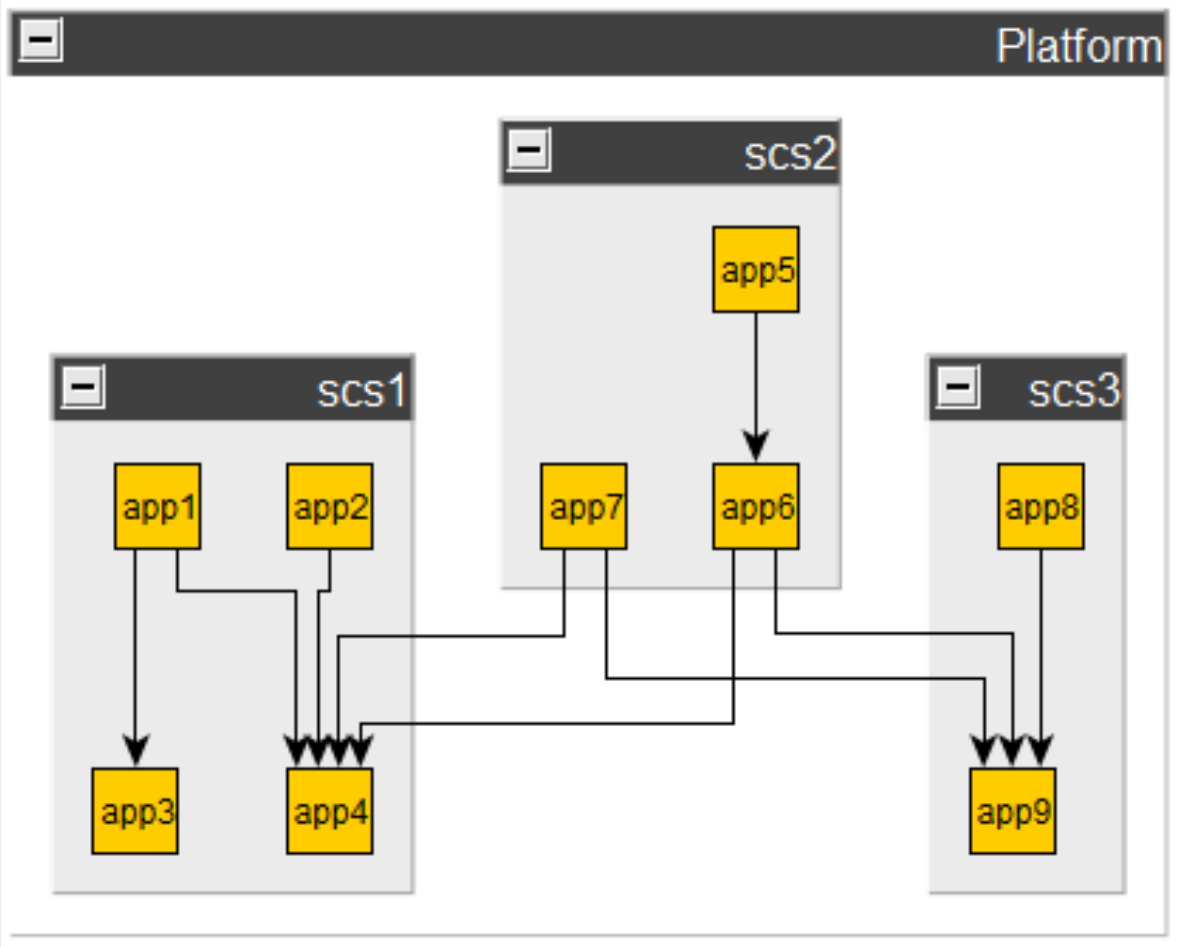
Software für die Plattform Analyse

- Ziel: Abbildung der Struktur zur Analyse der Plattform Architektur
- Auswertung der Kommunikation über Log Dateien:
  - *Datenbanken*
  - *Messaging Systemen*
  - *Proxies*

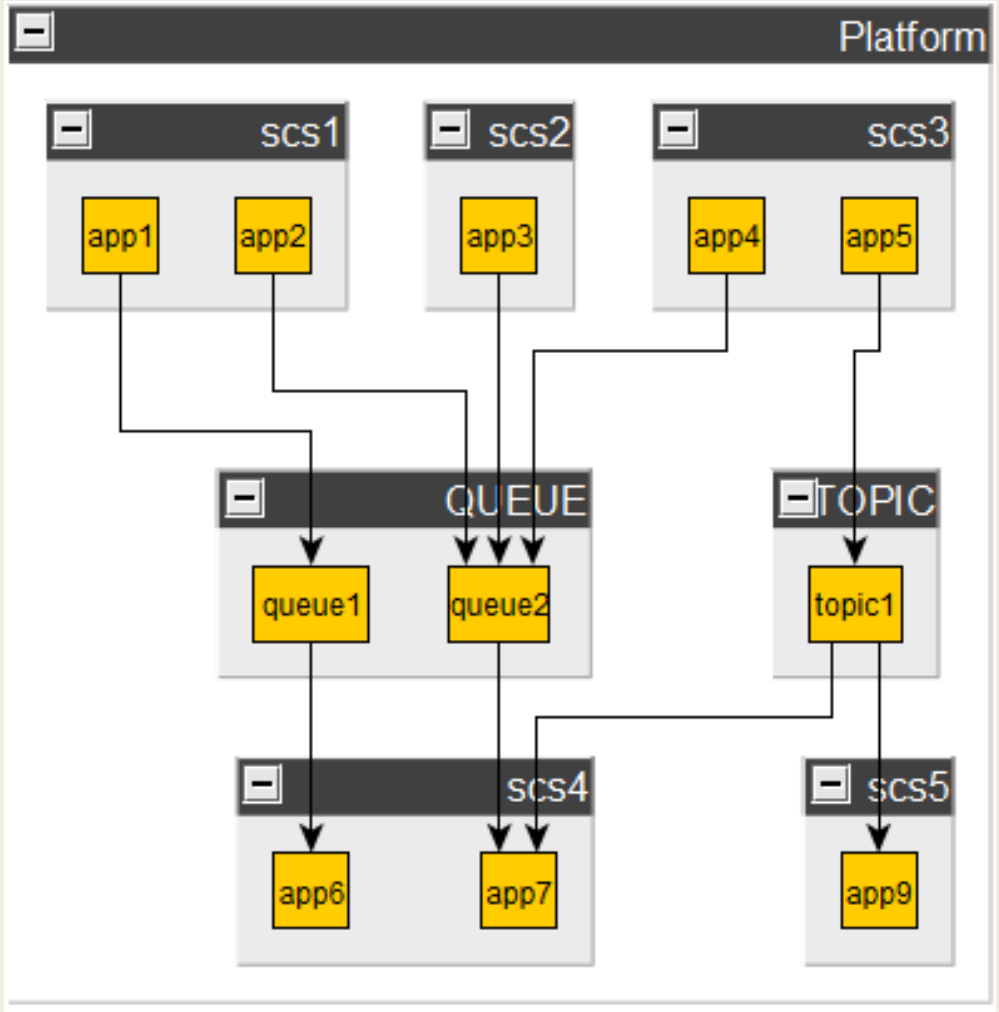
Reverse Proxy



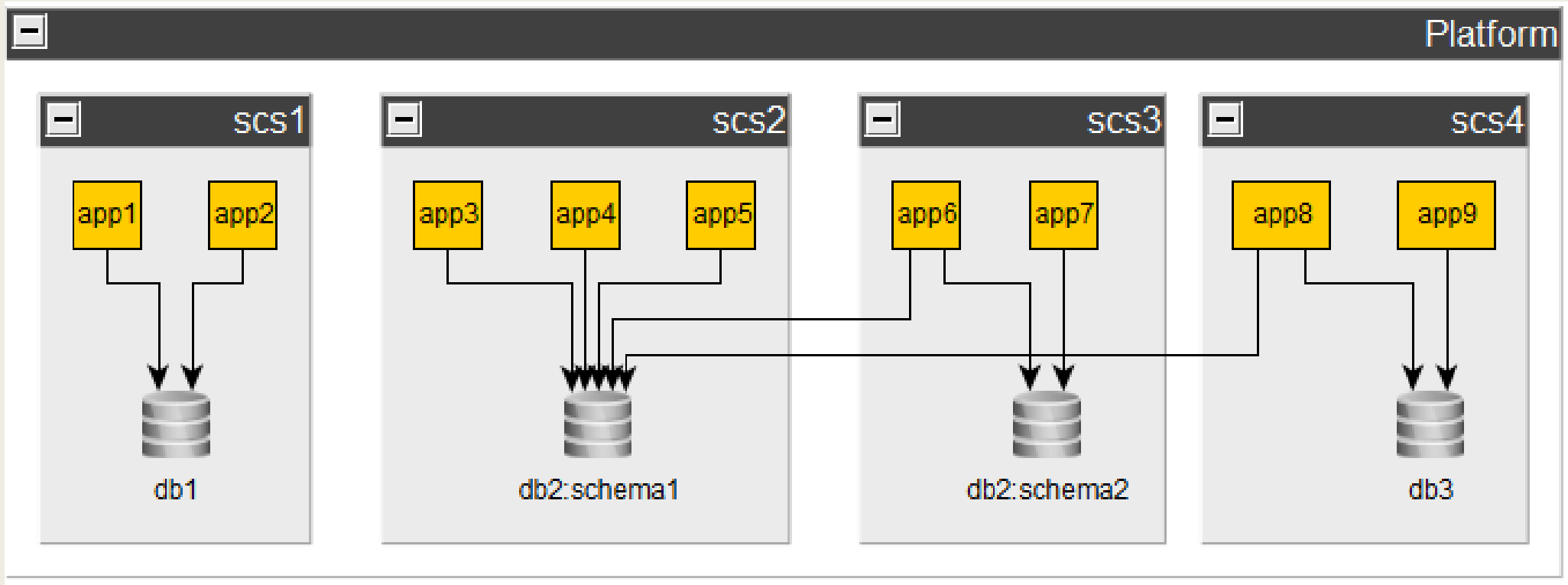
Auswertungen - HTTP Kommunikation



Auswertungen – Messaging Systeme



Auswertungen - Datenbanken



Vielen Dank für ihre Aufmerksamkeit!

Buchquellen

- Eberhard Wolff. *Das Microservices-Praxisbuch: Grundlagen, Konzepte und Rezepte*. Heidelberg: dpunkt.verlag, 2018. isbn: 978-3-86490-526-1.
  - *Abbildung aus Folie 3, 4 und 5*

Internetquellen

- https://medium.com/better-programming/microservices-architecture-tutorial-all-you-need-to-get-started-f059d2e1aeb3
- https://scs-architecture.org/index.html
- https://scs-architecture.org/vs-ms.html

Bildquellen

- Folie 2: https://lh5.googleusercontent.com/nGzZKlxQ-6N-yYvuJddEF-DTSX6Ckgtfcu2lTu4fdHOkdprYZhdzjUlNbO6zqzOYBtdAnZVRixm4EKawFwc0caGzQLKOAa66Hnkd3bWC5GRanqKlmhbtW3SPG9TaVTGndNKzXwwh
- Folie 6: https://www.tutorialspoint.com/apache_kafka/apache_kafka_introduction.htm
- Folie 7: https://miro.medium.com/max/700/1*KmHxjMtQQ3Xm4rtwWniUWA.png
- Folie 10: https://www.sidneyw.com/static/0f48c171968c9a9521b247a764099dc1/b9e4f/proxy.png