



Upgrade2Achitect Program

Session #2

Design and Architecture pattens

EMPOWERING High Performance Technology Teams

Agenda for the Day



S.No.	Schedule	Item	Duration
1	09.00 to 09.50 a.m.	High Level overview of Design and Architecture pattens	50 Mins
2	09.50 to 10.00 a.m.	Break	10 Mins
3	10.00 to 10.40 a.m.	Real time examples of Design and Architecture pattens	40 mins
4	10.40 to 11.00 a.m.	Interaction Time for Q&A	20 mins

Note: For sessions that are completely demo/Lab or notebook based, please keep one agenda slide and explain the same thing in the beginning so that participants are aware they do not have PPT.

Design and Architecture pattens

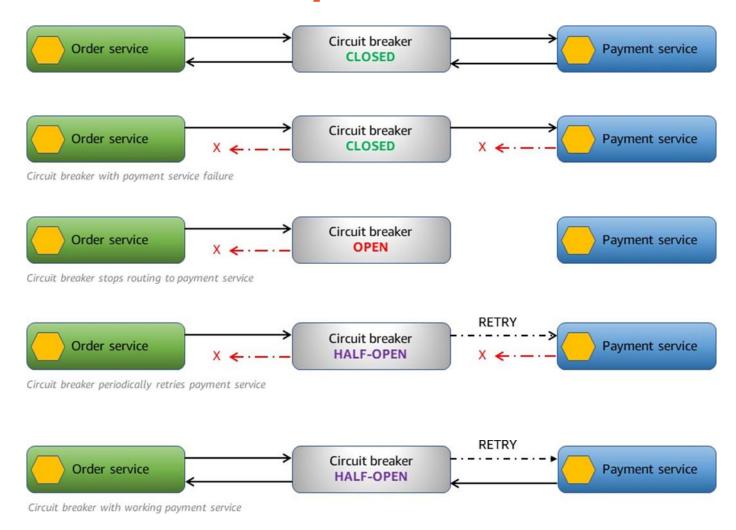


- Circuit breaker
- 2. Event sourcing
- 3. Hexagonal architecture
- 4. Publish-subscribe
- 5. Retry with backoff



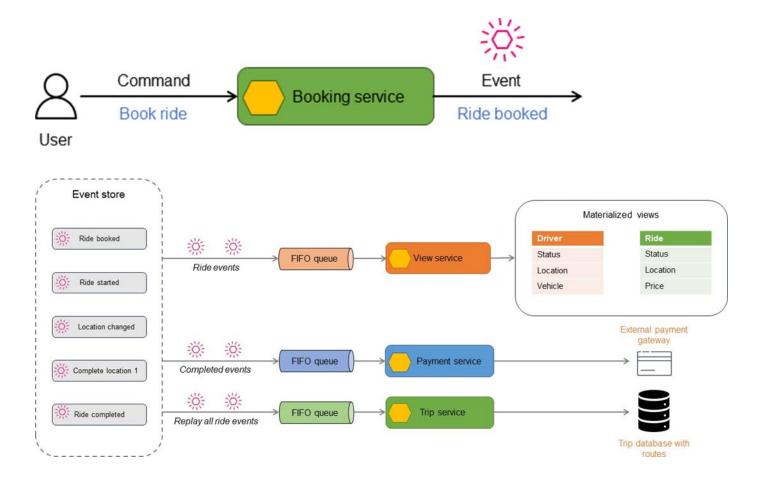
Circuit breaker pattern







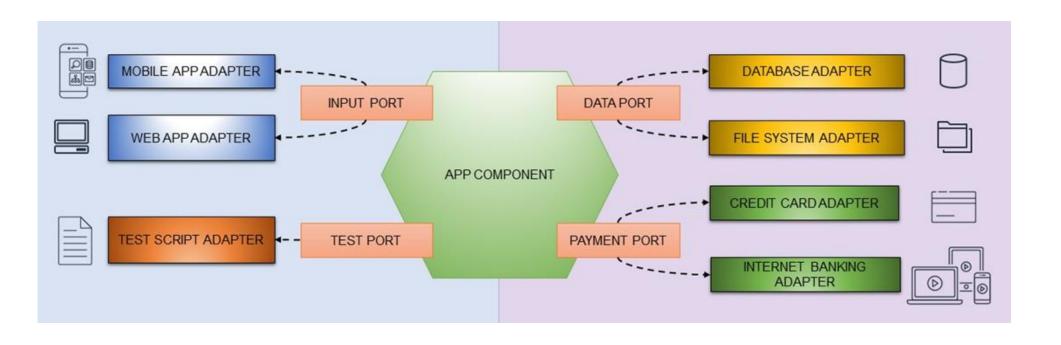




High-level architecture

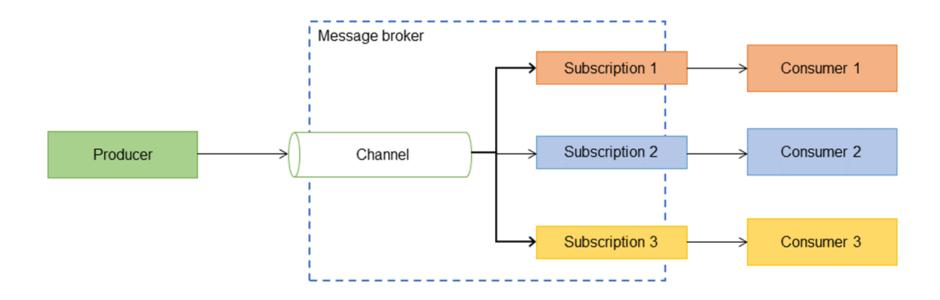
Hexagonal architecture pattern





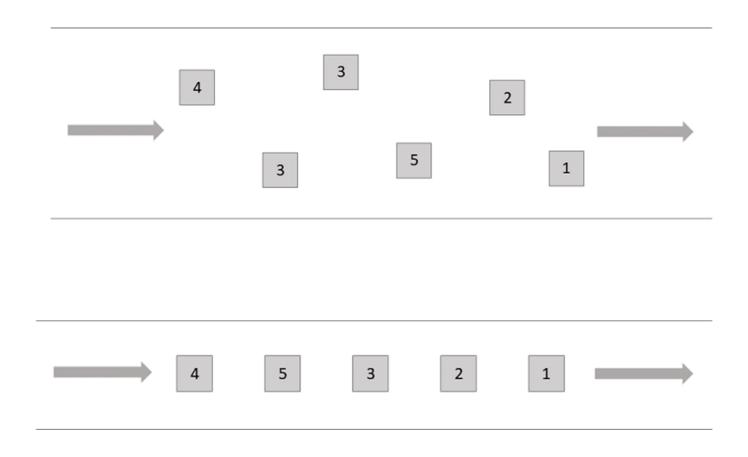
Publish-subscribe pattern





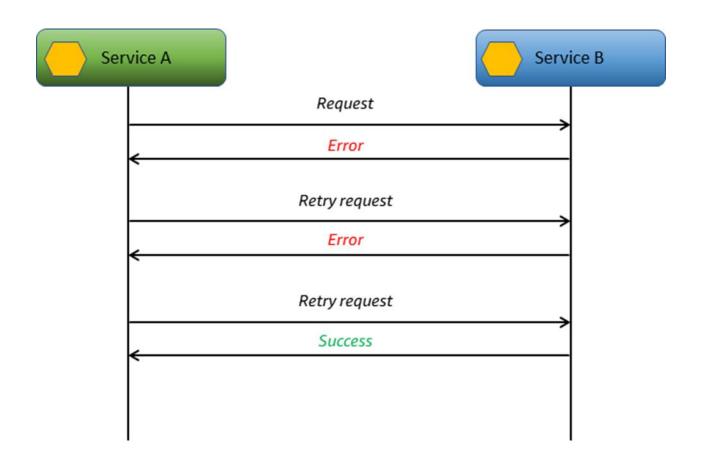
Publish-subscribe pattern











High-level architecture

Overall Summary



By using the patterns to modernize your applications, you can:

- Design and implement reliable, secure, operationally efficient architectures
- Optimize for cost and performance.
- Reduce the cycle time for use cases that require these patterns,
- Focus on organization-specific challenges.
- Accelerate development by standardizing pattern implementations by using AWS services.
- Help your developers build modern applications
- Avoid inheriting technical debt.



THANK YOU