



Unboxing the Festive Design patterns with Santa

Practices to understand the snowy Cloud of
Azure before Christmas Eve

This year the Festive Tech
Calendar Team are **raising
money** for the Raspberry Pi
Foundation [@RaspberryPi_org](https://www.raspberrypi.org)



Who is presenter?

- Azure MVP & MCT
- Speaker, Author, Cloud Architect
- 20+ years of experience
- 24 Azure & M365 Certifications
- Cloud Marathoner Founder
- Tech geek, Lifelong learner

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Agenda



Why
architecture
matters?

What is
Cloud
Architecture
?

Design
patterns to
the rescue

Q & A



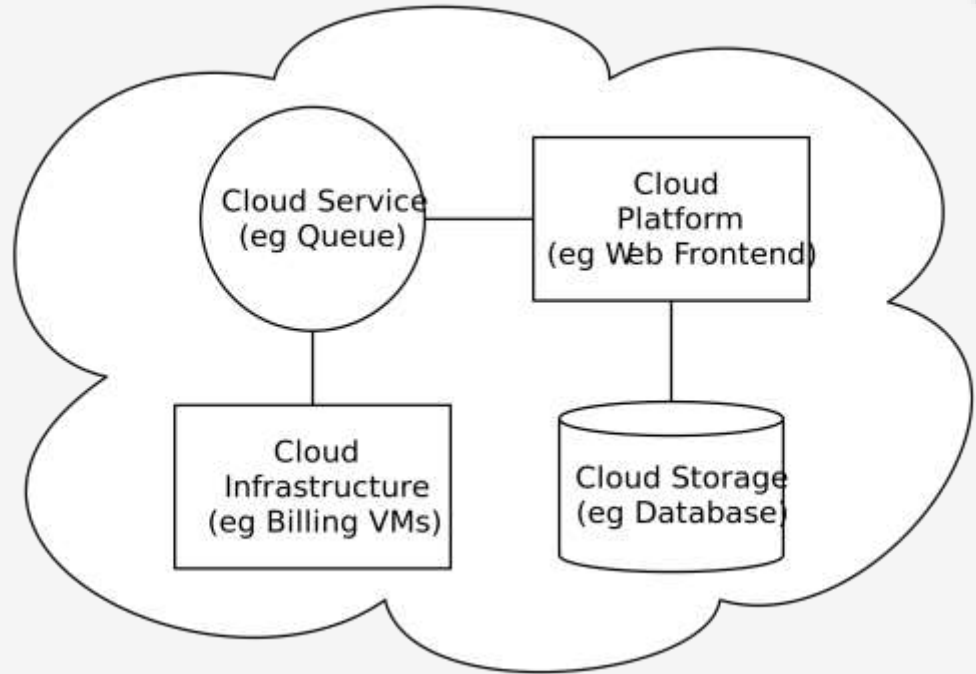
Why architecture matters

- Process and steps
- Stakeholders
- Identifying Scope
- Identifying Requirements
- Building PoC
- Building Team
- Etc.

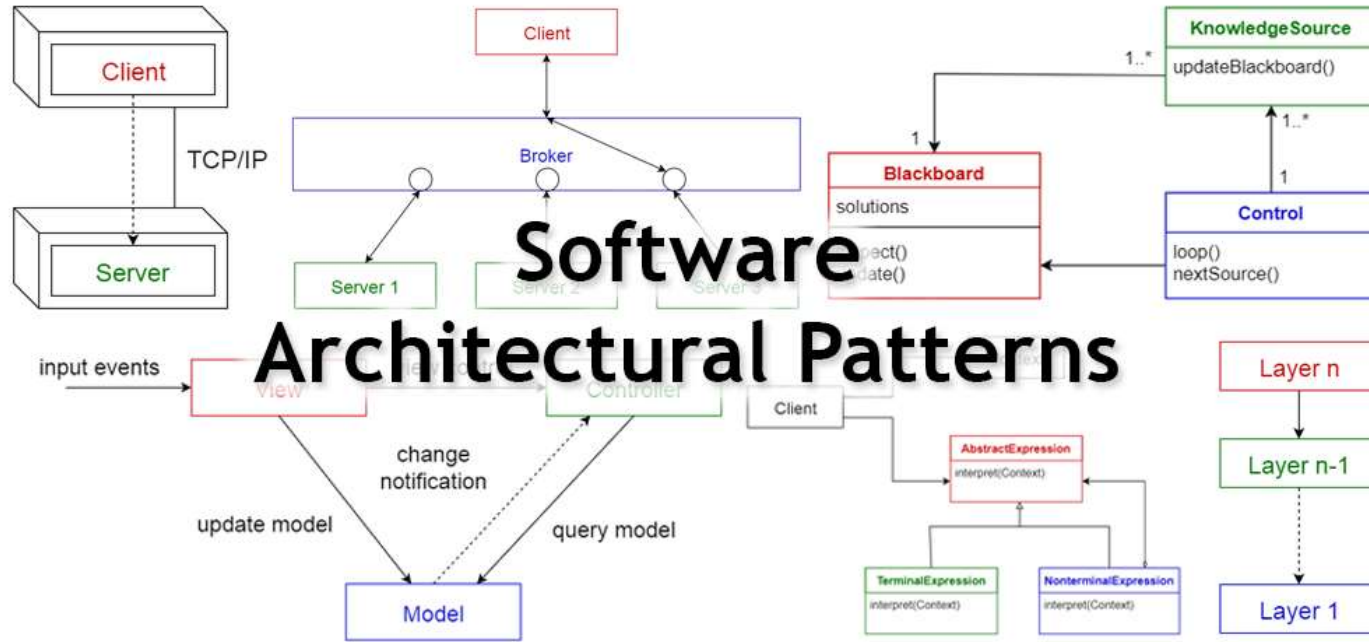


What is Cloud Architecture?

- Front-end
- Back-end
- Cloud based services
- Network & connectivity



Design patterns in Software Development



Grouping the Design Patterns

Creational

Structural

Behavioral

The Software Design & Architecture Stack

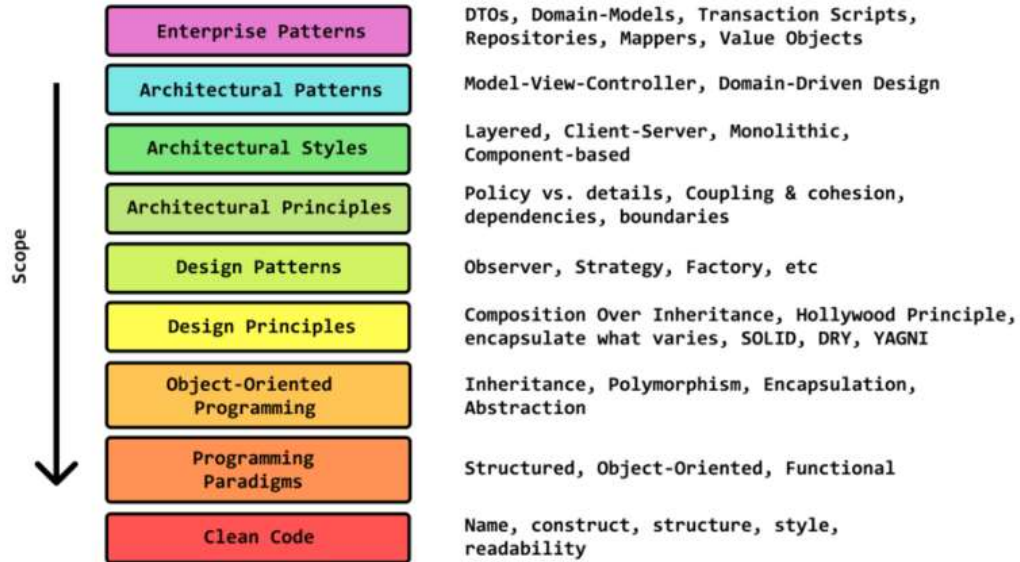


Image Credits: Khalil Stemmler

Cloud Design patterns



Common Cloud Design patterns

Anti-corruption layer

Circuit breaker

Claim Check

Retry with backoff

Saga orchestration

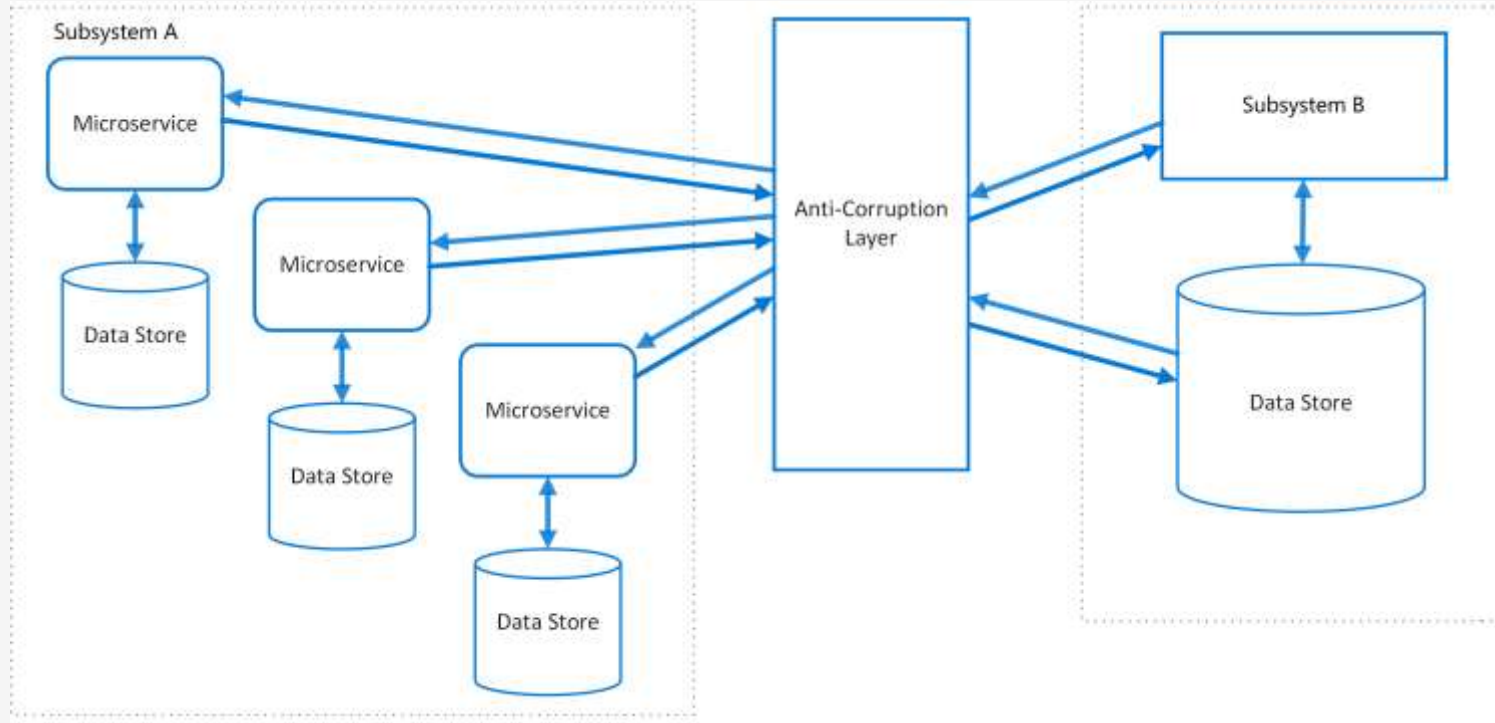
Strangler fig

Transactional outbox

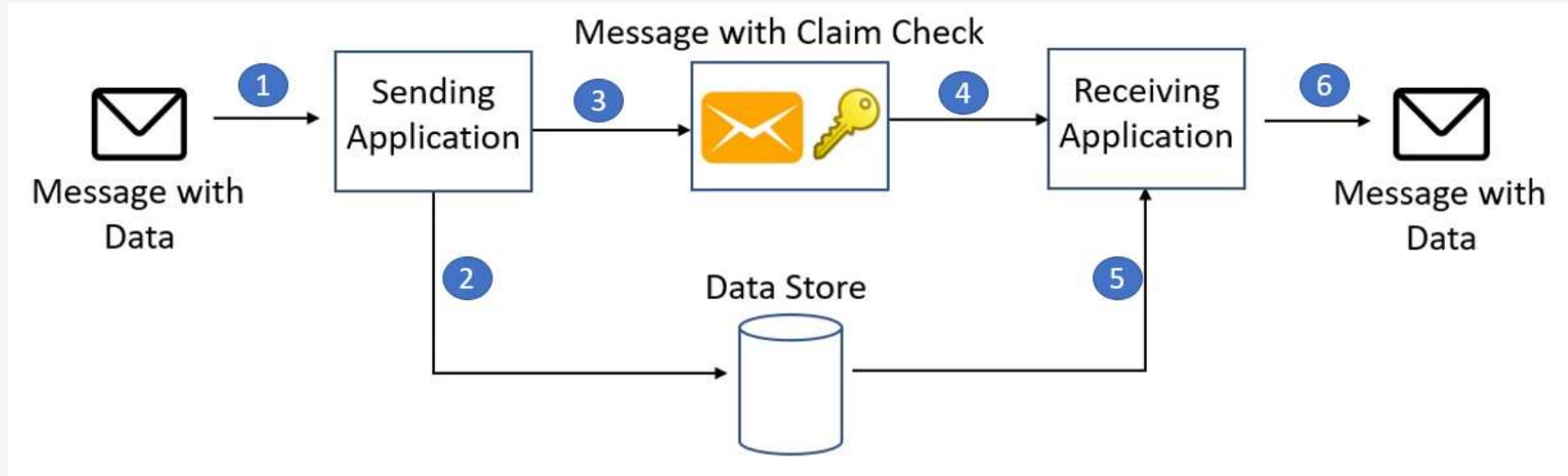
Choreography



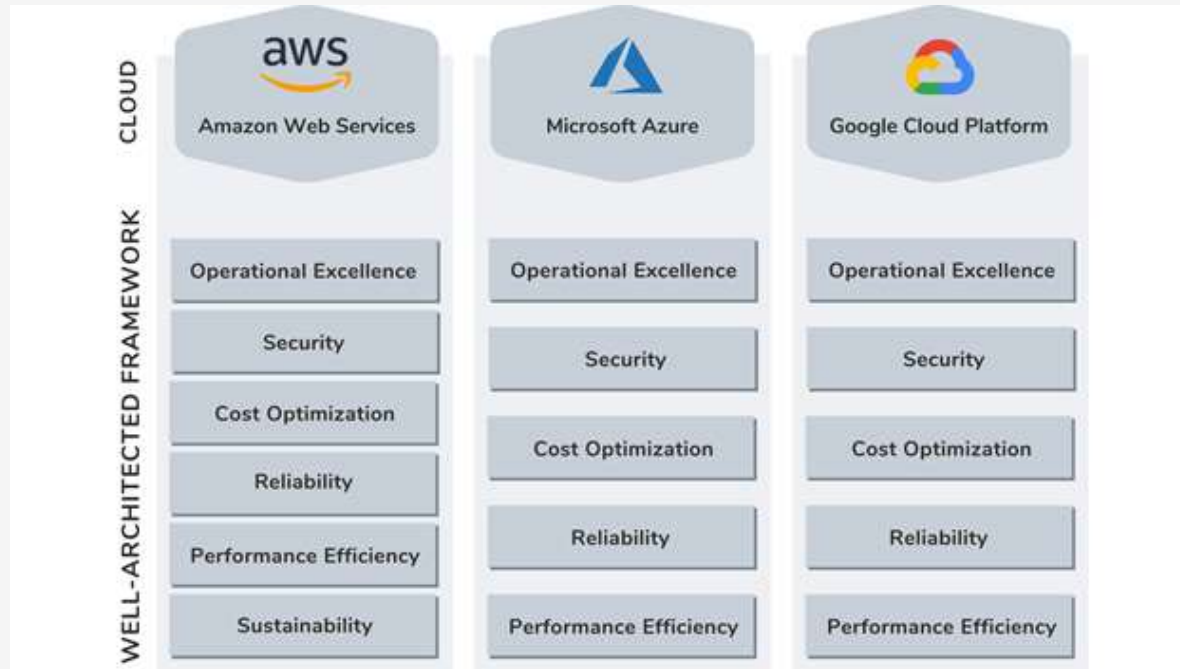
Cloud Design pattern: Anti-corruption Layer pattern



Cloud Design pattern: Claim-Check pattern



Well-Architected Frameworks for your Cloud



References: Cloud architecture design patterns

- Architecture Center – Design Guides (Google)
- Prescriptive Guidance - Cloud design patterns, architectures, and implementations (AWS)
- Data management patterns (Azure)
- Design and implementation patterns (Azure)
- Messaging patterns (Azure)



References: Cloud Architect Learning resources

- Microsoft Learn modules
- Cloud Marathoner – Study Guide
- Thomas Maurer – Study Guide
- Official practice tests
- John Savill's Study Cram
- Labs and exercises
- Azure Architect center
- Microsoft Exam emulator
- Practice Assessment



Azure Solutions Architect Expert (AZ-305) Cert Prep: Design Infrastructure Solutions 🎥



Resources

#CloudMarathoner 's Study Guide



Microsoft Lean AZ-305 modules



AWESOME Azure Architect - GitHub



AZ-305 Cert Prep: Design Infrastructure Solutions



Summary

- Learned about snowy cloud architecture
- How to build snowflake patterns that work
- Info about different snowy cloud factories
- How to get started with festive cloud architecture
- And set of references to guide our path on snowy hills



Thank you!

