



# Upgrade2Achitect Program

Session #1

**Design patterns** 

**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 patterns	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 patterns	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 patterns**

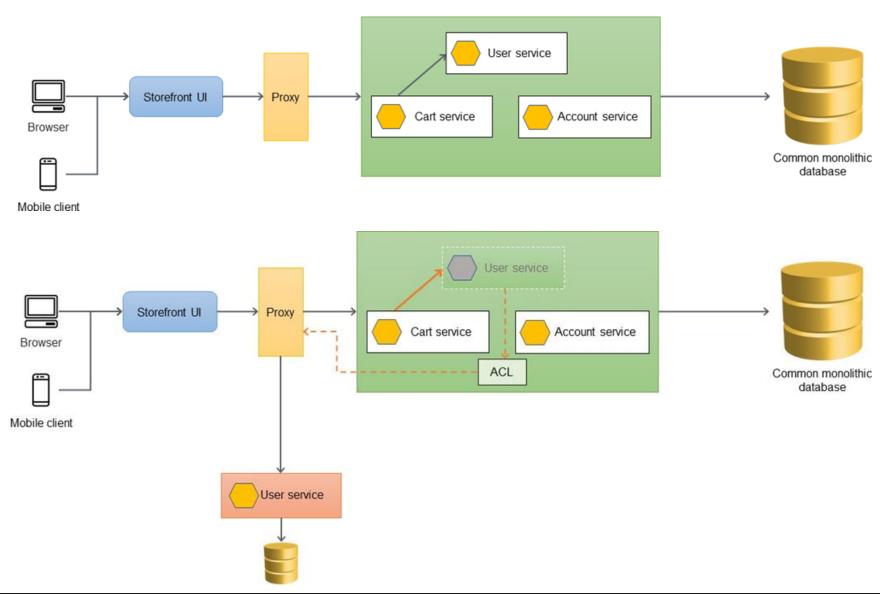


- Anti-corruption layer
- 2. API routing patterns
- 3. Hostname routing
- 4. Path routing
- 5. HTTP header routing



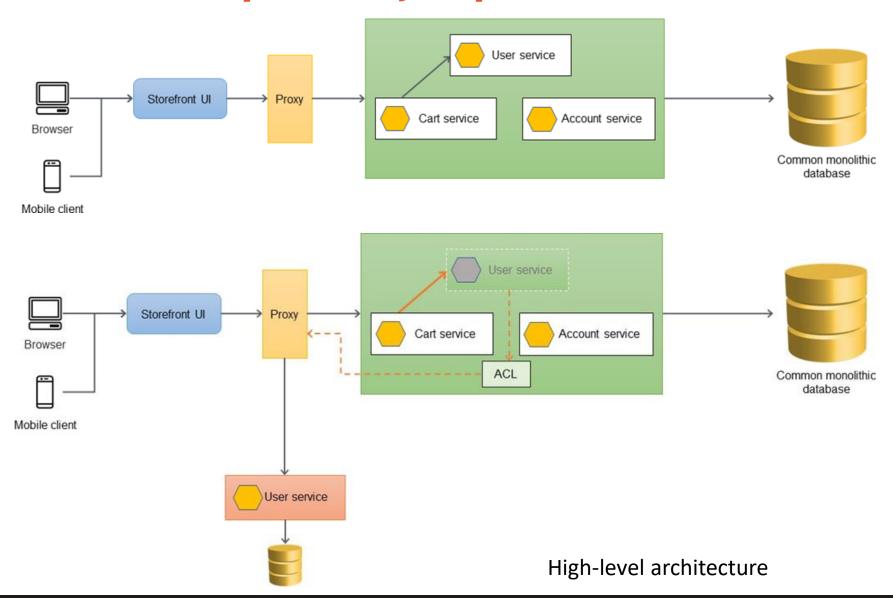






#### **Anti-corruption layer pattern**







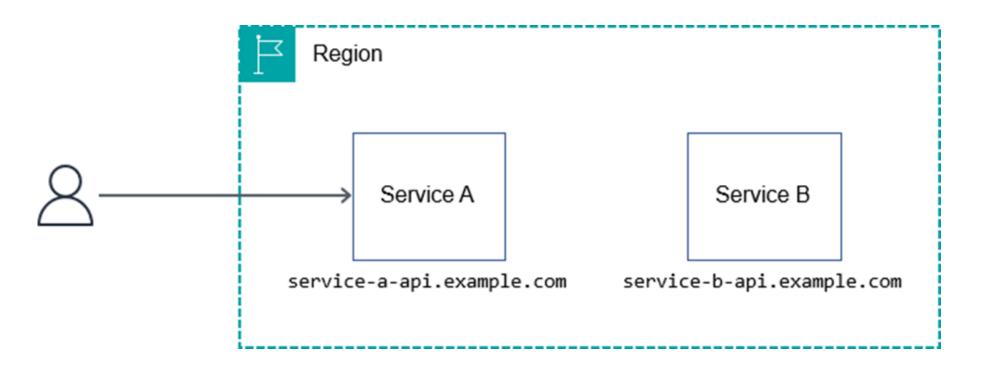


Method	Description	Example
Hostname routing	Expose each service as a hostname.	billing.api.exampl e.com
Path routing	Expose each service as a path.	api.example.com/billing
Header-based routing	Expose each service as an HTTP header.	x-example-action: something

High-level architecture

# Hostname routing pattern

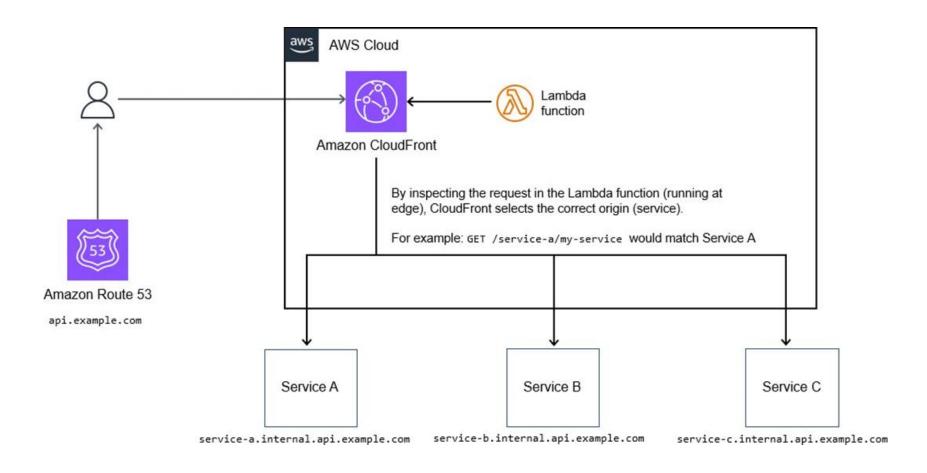




High-level architecture

### Path routing pattern

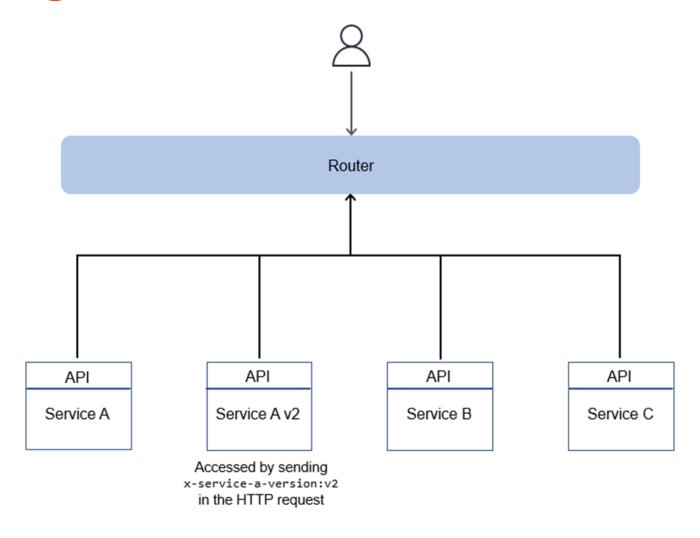




Typical use case

### Header routing 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