

An illustration on a teal background featuring two computer monitors on stands. Each monitor has a stylized arm extending from its side. The left arm holds a white credit card with a black stripe and a red chip. The right arm holds a white shopping bag with a black handle. The word 'AmCart' is centered in white text, with a white horizontal line underneath it.

AmCart

ECOMMERCE

Assumptions

- Application will support multiple languages
- Responsive design for optimal viewing on various devices
- Website anticipates a large user base.
- It exclusively supports web applications
- Website is expected to experience high traffic

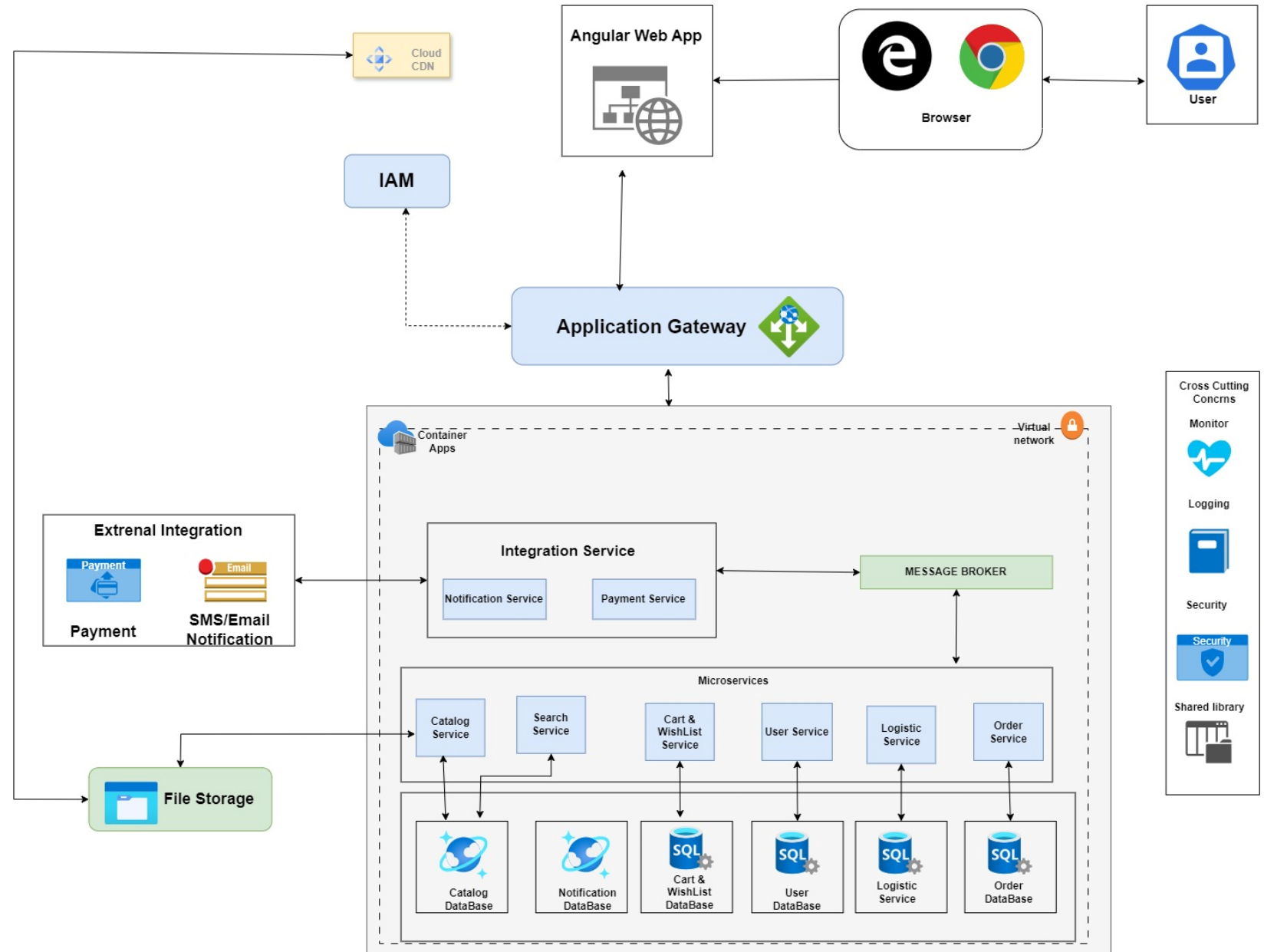


NFR

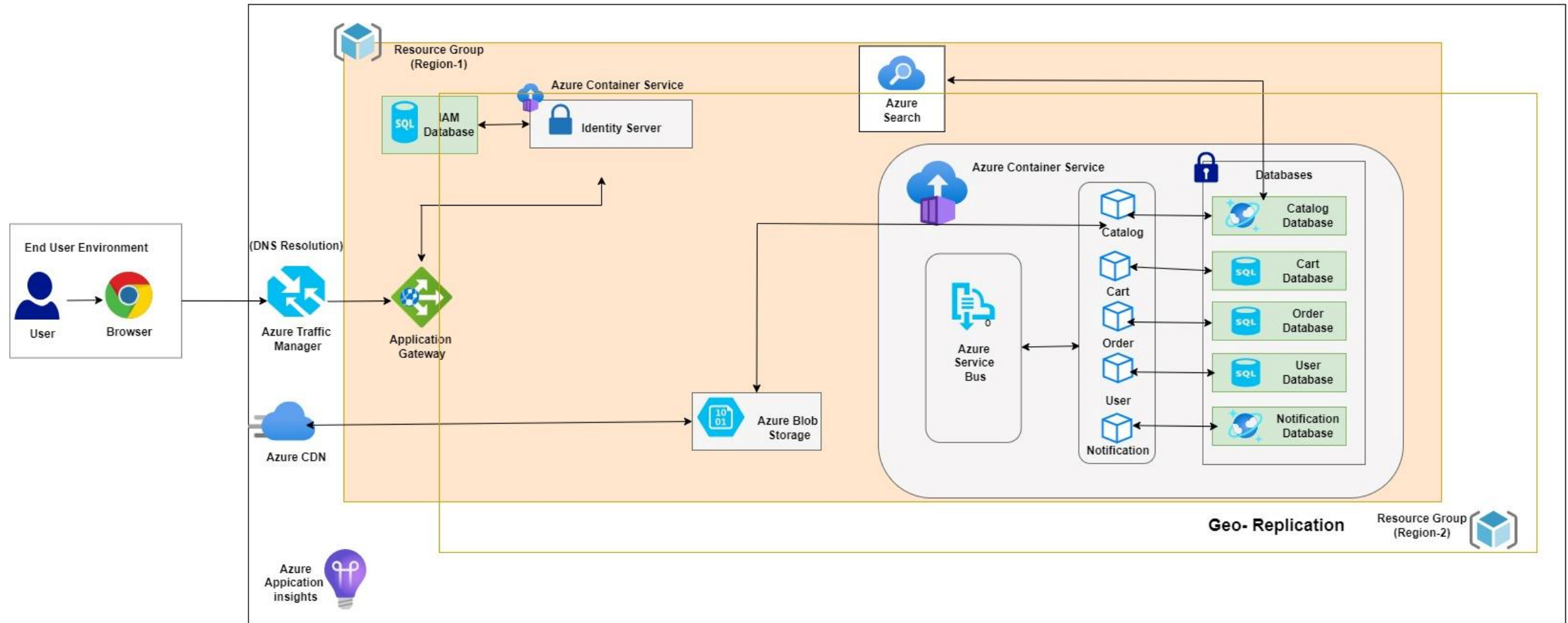
- In compliance with GDPR regulations, sensitive information will undergo masking.
- During the sales duration, the application will scale up to meet increased demand
- Minimize the application's downtime.



Architecture Diagram



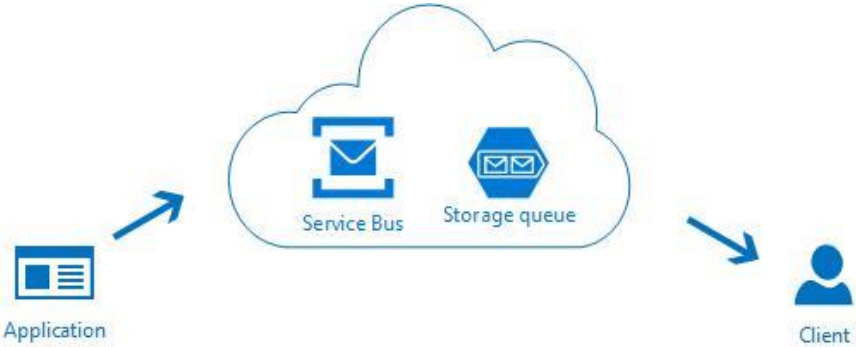
Deployment Diagram



Message Broker

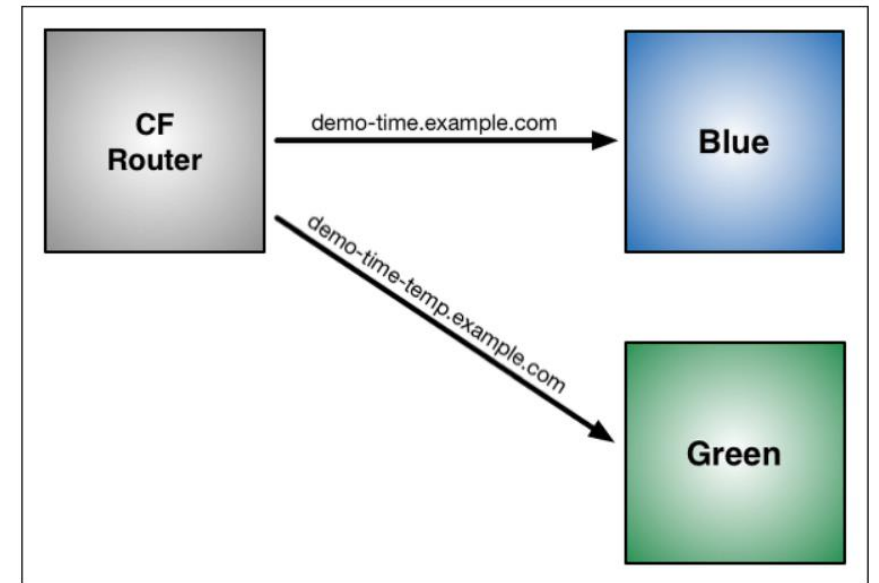
- Azure Service Bus

Parameters	RabbitMQ	Azure Service Bus	Kafka
Infrastructure Cost	22	24	23
Scaling	20	24	23
Open Source	23	18	23
Ease of Setup and Management	18	23	20
Message Retention	20	23	23
Failover Handling	20	24	23



Blue Green

Deployment Strategy





Angular

Front End

Aspect	Angular	React	Justification
Tooling and CLI	20	12	Angular CLI is comprehensive and integrated, streamlining development.
Architecture	16	12	Angular provides a more opinionated and comprehensive structure, promoting consistency in larger projects.
Language	16	12	TypeScript in Angular enhances code quality and error detection.
Scalability	16	16	Angular is well-suited for large enterprise-level applications.
Flexibility	8	16	While Angular is less flexible, this ensures a more consistent codebase.