



Amazon MQ & Amazon SQS

Amazon Web Services

What is Amazon MQ

Amazon MQ is a managed message broker service for Apache ActiveMQ that makes it easy to set up and operate message brokers in the cloud. Message brokers allow different software systems—often using different programming languages, and on different platforms—to communicate and exchange information. Amazon MQ reduces your operational load by managing the provisioning, setup, and maintenance of ActiveMQ, a popular open-source message broker. Connecting your current applications to Amazon MQ is easy because it uses industry-standard APIs and protocols for messaging, including JMS, NMS, AMQP, STOMP, MQTT, and WebSocket.

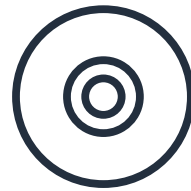


Amazon MQ

Benefits of Amazon MQ



Security



Durability



Availability



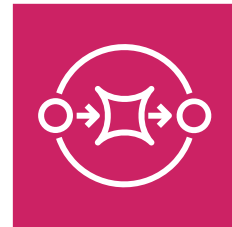
Compatibility



Operational Offloading

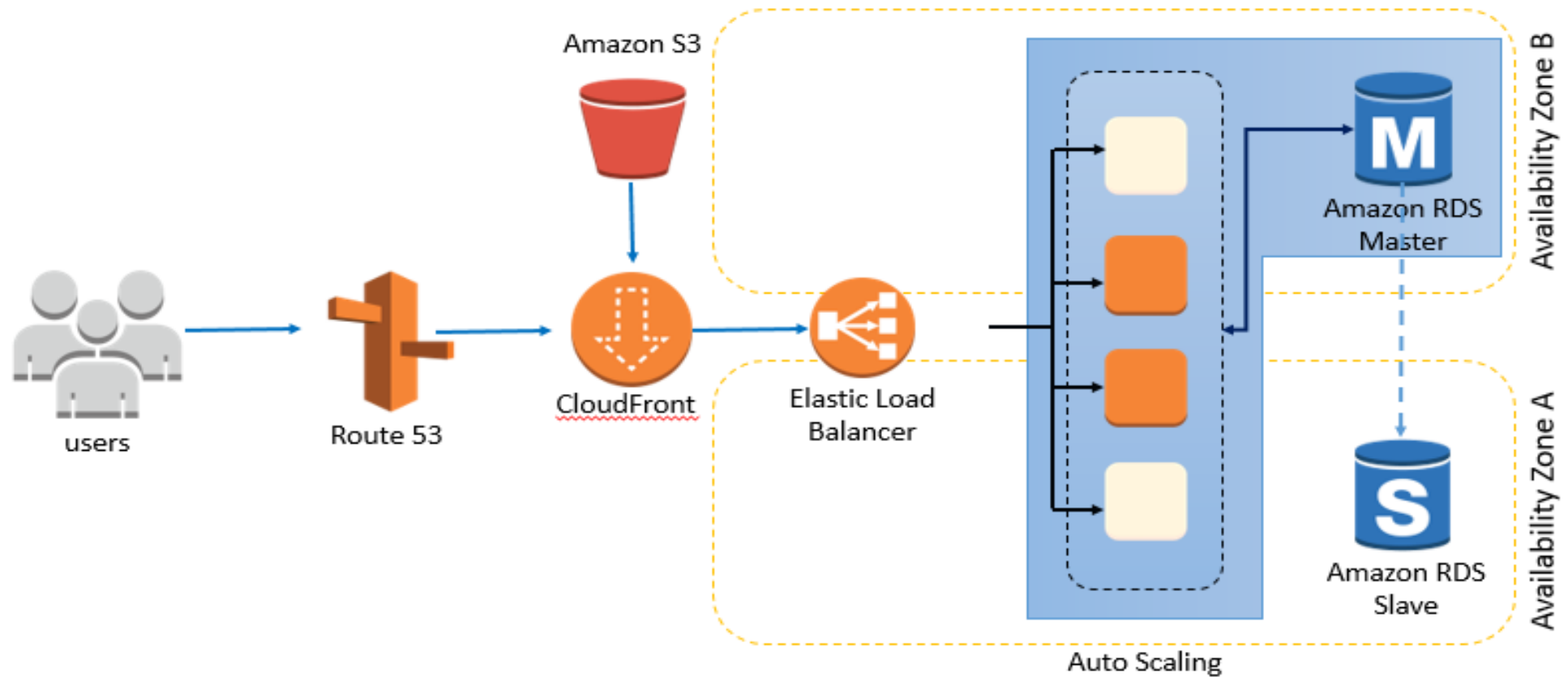
What is Amazon SQS

Amazon Simple Queue Service (Amazon SQS) is a fully managed message queuing service that enables you to decouple and scale microservices, distributed systems, and serverless applications. SQS eliminates the complexity and overhead associated with managing and operating message oriented middleware, and empowers developers to focus on differentiating work. Using SQS, you can send, store, and receive messages between software components at any volume, without losing messages or requiring other services to be available

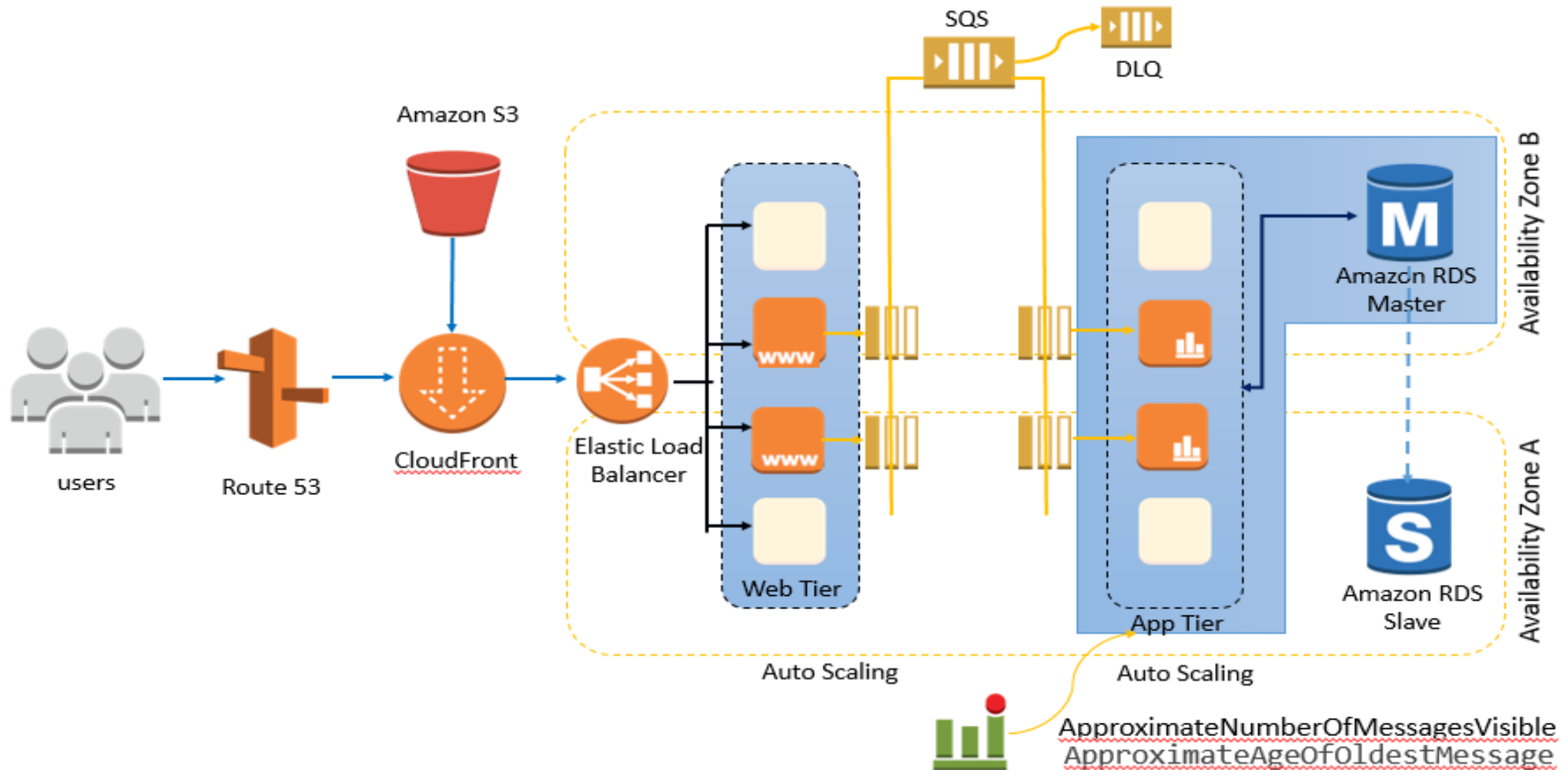


Amazon Simple Queue Service

Amazon SQS – Use Case

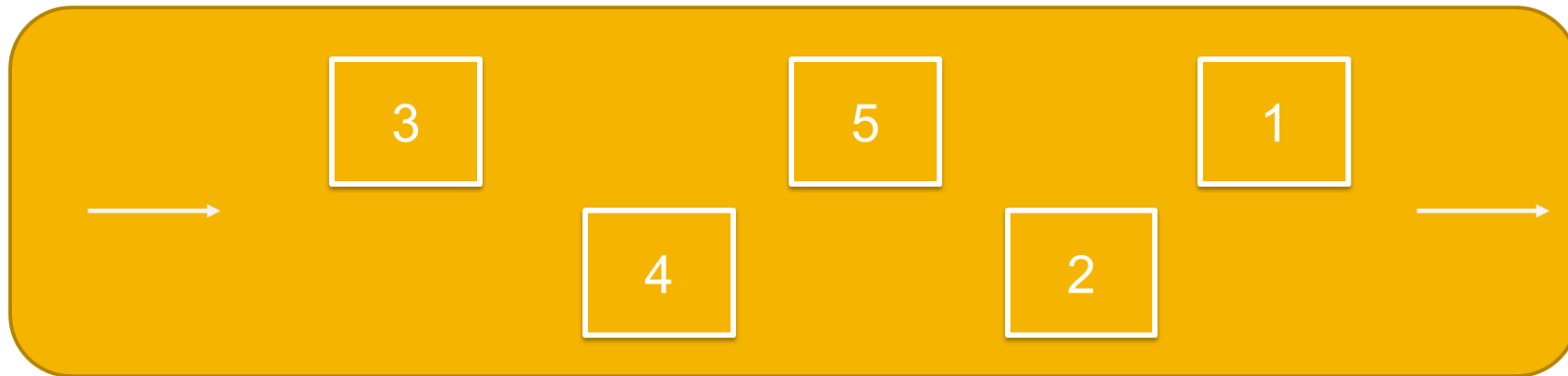


Amazon SQS – Use Case



What is Amazon SQS

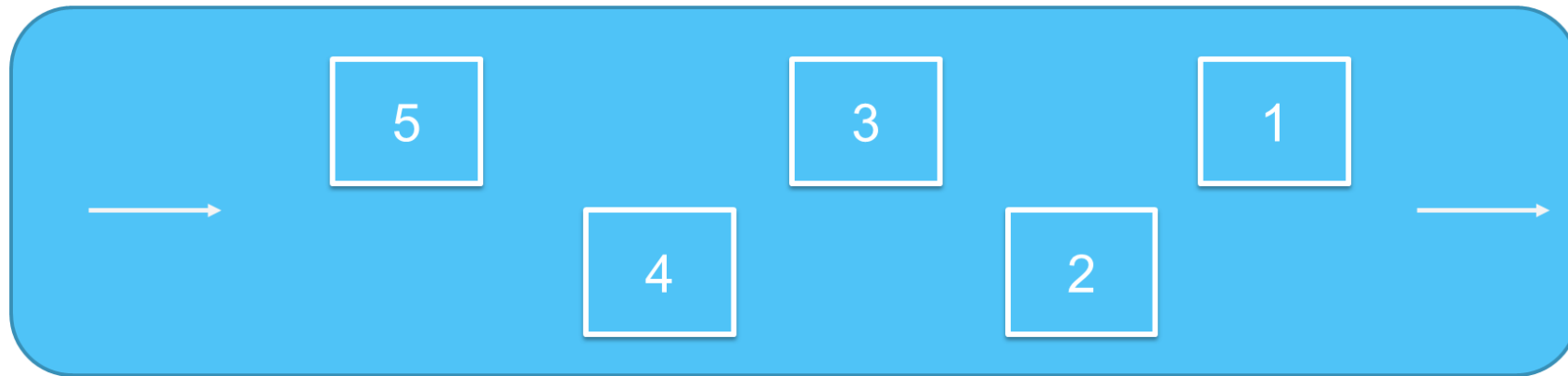
Standard Queue



- Nearly unlimited number of transactions
- 'At-least-once' delivery
- Message order is not guaranteed

What is Amazon SQS

FIFO Queue (First In First Out)



- Order of message delivery is preserved
- Exactly-once processing
- Support for up to 300 messages per second without batching
- Support for up to 3,000 messages per second with batching

Amazon MQ vs. Amazon SQS

- Amazon MQ is a managed message broker service that provides compatibility with many popular message brokers. We recommend Amazon MQ for migrating applications from existing message brokers that rely on compatibility with APIs such as JMS or protocols such as AMQP, MQTT, OpenWire, and STOMP.
- Amazon SQS and Amazon SNS are queue and topic services that are highly scalable, simple to use, and don't require you to set up message brokers. We recommend these services for new applications that can benefit from nearly unlimited scalability and simple APIs.

Next Video

Amazon SWF & Step Functions