



AWS SNS & SQS





SNS

What is SNS?



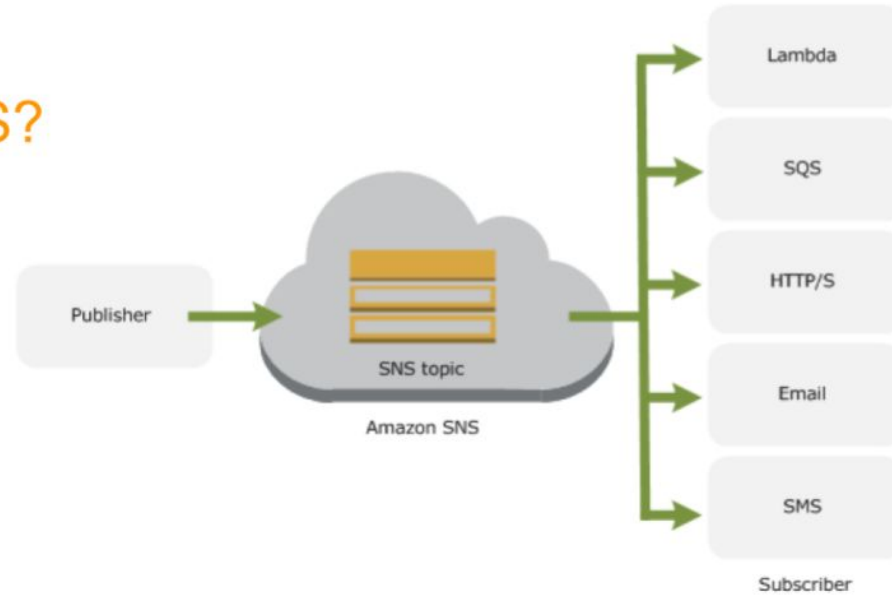
Amazon
SNS

- Amazon **Simple Notification Service** (Amazon SNS) is a managed service that provides message delivery from **publishers** to **subscribers** (also known as **producers** and **consumers**).



► SNS

What is SNS?



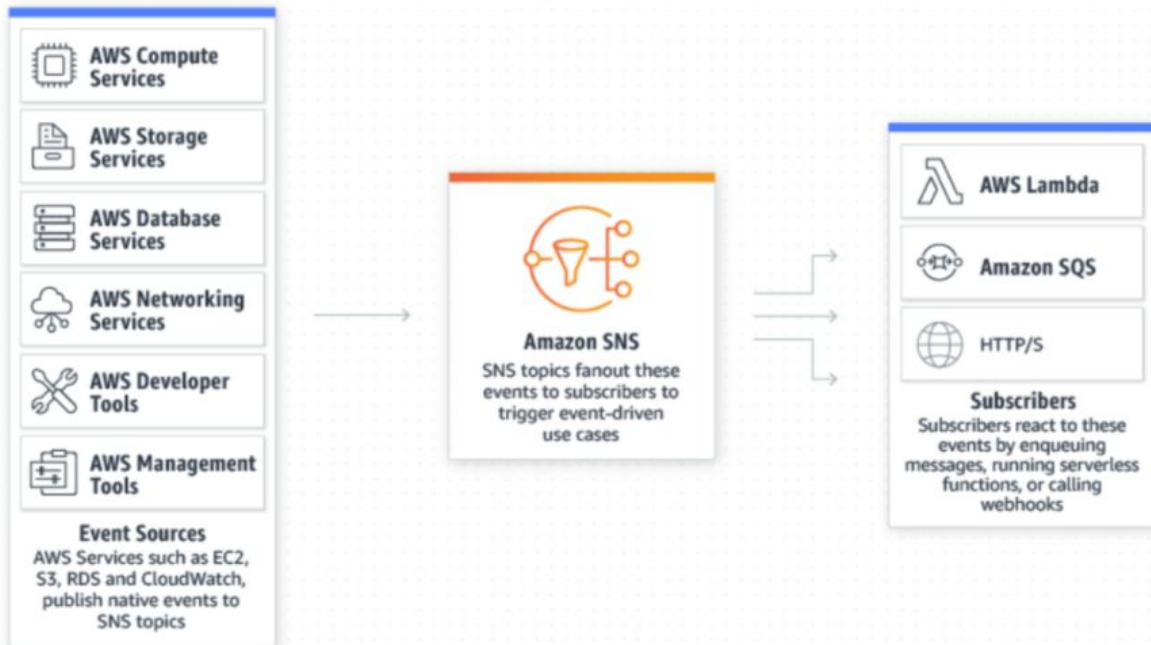
- Clients can subscribe to the **SNS topic** and receive published messages using a supported protocol, such as Amazon SQS, AWS Lambda, HTTP, email, mobile push notifications, and mobile text messages (SMS).





SNS

What is SNS?



► SNS Pricing



- Amazon SNS has **no upfront costs** and you can **pay as you go**. You pay based on the number of notifications you publish, the number of notifications you deliver, and any additional API calls for managing topics and subscriptions. Delivery [pricing varies by endpoint type](#). You can get started for free with the SNS free tier.



SQS

What is SQS?



amazon
SQS

- Amazon **Simple Queue Service (SQS)** is a fully managed **message queuing service** that enables you to decouple and scale microservices, distributed systems, and serverless applications.



SQS

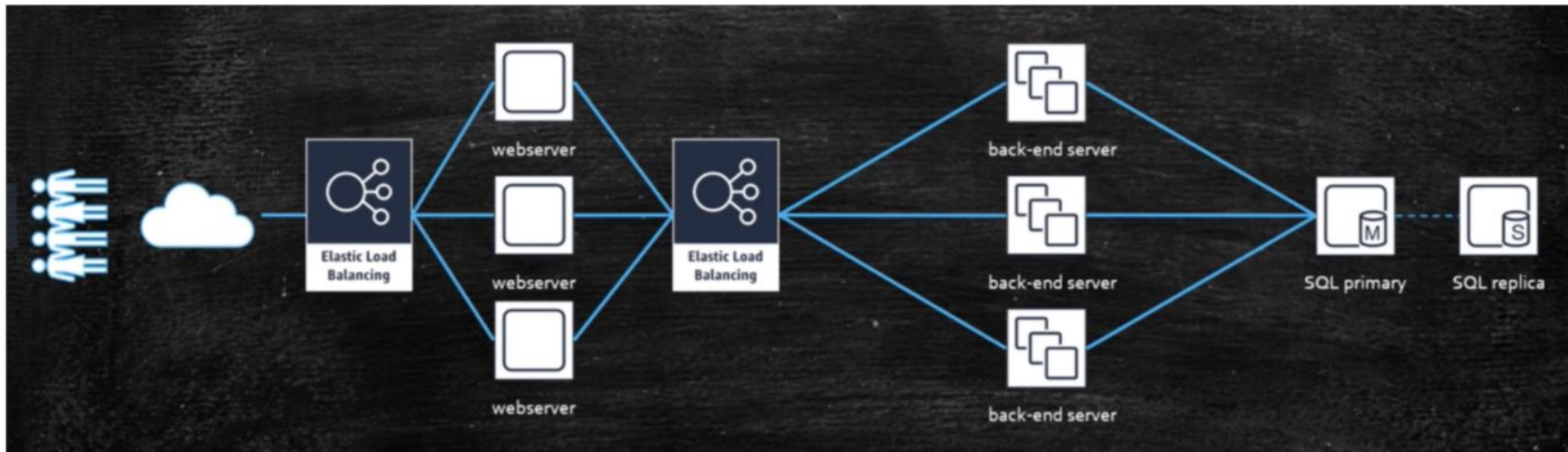
What is SQS?





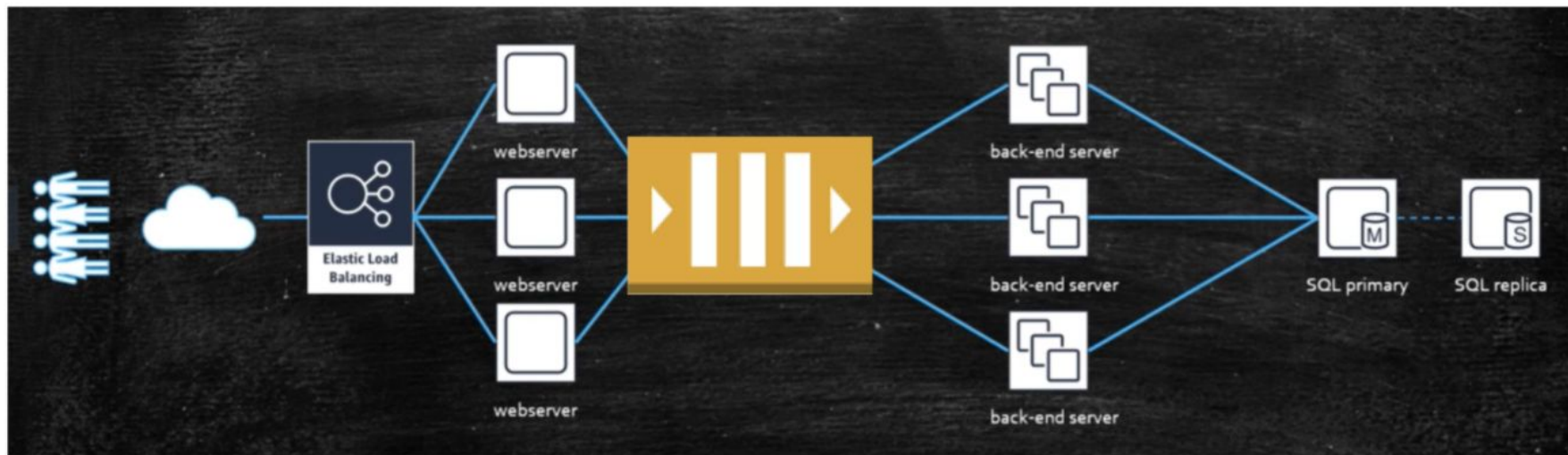
SQS

What is SQS?



► SQS

What is SQS?





SQS

What is SQS?

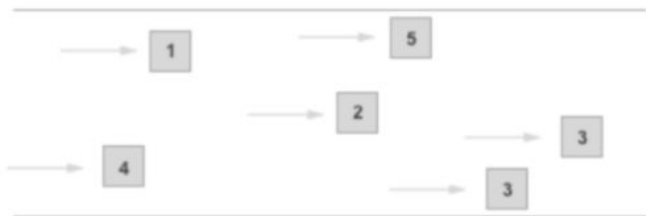
Standard Queue

FIFO Queue

High Throughput: Standard queues have nearly-unlimited transactions per second (TPS).

At-Least-Once Delivery: A message is delivered at least once, but occasionally more than one copy or a message is delivered.

Best-Effort Ordering: Occasionally, messages are delivered in an order different from which they were sent.



Send data between applications when the throughput is important, for example:

- Decouple live user requests from intensive background work: let users upload media while resizing or encoding it.
- Allocate tasks to multiple worker nodes: process a high number of credit card validation requests.
- Batch messages for future processing: schedule multiple entries to be added to a database.

First-In-First-out Delivery: The order in which messages are sent and received is strictly preserved.

Exactly-Once Processing: A message is guaranteed to be delivered at least once, but all duplicates of the message are removed.

Limited Throughput: 300 transactions per second (TPS).



Send data between applications when the order of events is important, for example:

- Ensure that user-entered commands are executed in the right order.
- Display the correct product price by sending price modifications in the right order.
- Prevent a student from enrolling in a course before registering for an account.

► SQS

Pricing



- [Pay only for what you use](#)
- AWS **Free Tier** includes **1 million requests** with Amazon Simple Queue Service (SQS).



THANKS!

Any questions?

You can find me at:

- ▶ @guile
- ▶ guile@clarusway.com



Publishes

Notification deliveries

Data transfer

Worldwide SMS

**Additional pricing
resources**

Notification deliveries

Region: US East (N. Virginia) ↕

Endpoint Type	Free Tier	Price
Mobile Push Notifications	1 million	\$0.50 per million
SMS	100 (for SMS sent to US phone numbers)	Learn more
email/email-JSON	1,000	\$2.00 per 100,000
HTTP/s	100,000	\$0.60 per million
Simple Queue Service (SQS)	No charge for deliveries to SQS Queues. Normal SQS pricing applies.	
Lambda functions	No charge for deliveries to Lambda. Normal Lambda pricing applies.	

<https://aws.amazon.com/sns/sms-pricing/>