
aws

AWS SNS

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Amazon Simple Notification Service (Amazon SNS) is a fully managed messaging service provided by AWS. It is designed for distributing notifications to a wide range of recipients. With SNS, you can send messages to individual recipients or to large numbers of recipients.

Key Features and Properties of AWS SNS:

- **Pub/Sub Messaging**: SNS follows the publish/subscribe (pub/sub) messaging paradigm, allowing users to create "topics" and then have subscribers that receive messages or notifications on those topics.

- **Multiple Protocols**: SNS supports multiple protocols, meaning you can deliver messages to:
  - HTTP/HTTPS endpoints
  - Email/Email-JSON
  - Short Message Service (SMS)
  - Application (for sending messages to other AWS services or to applications)
  - AWS Lambda
  - Simple Queue Service (SQS)
  - Application Endpoints (for mobile devices)

- **Flexibility**: You can send a message to an SNS topic, and then that single message can be delivered to many recipients across various supported protocols.

- **Durability**: SNS messages are stored redundantly across multiple servers and data centers, providing high availability and durability.

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- **Content Filtering**: With SNS, you can filter the messages delivered to each subscription, ensuring subscribers only receive the messages of interest to them.
- **Access Control**: Integration with AWS Identity and Access Management (IAM) allows granular access control to the SNS topics. You can specify who can publish or subscribe to a topic.
- **Large Message Size**: For messages that exceed the normal size limit (256 KB), SNS can store the large message in an Amazon S3 bucket and send a pointer to the message in the notification.
- **Monitoring**: Integrated with Amazon CloudWatch, allowing users to monitor metrics related to the SNS service.
- **Encryption**: Supports encryption in transit (using HTTPS endpoints) and at rest (using AWS Key Management Service).
- **Cost**: Users pay for what they use. This includes the number of requests, number of messages delivered, and data transfer. There's no upfront commitment required.

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