AWS SNS

Simple Notification Service

Amazon Simple Notification Service(SNS) is a flexible, fully managed pub/sub messaging and mobile notifications service for coordinating the delivery of messages to subscribing endpoints and clients

Simple Notification Service

- With SNS you can fan-out messages to a large number of subscribers, including distributed systems and services and mobile devices

- It is easy to set up, operate, and reliably send notifications to all your endpoints – at any scale

- You can get started using SNS in a matter of minutes using the AWS management console, AWS command line Interface or AWS SDKs

- SNS eliminates the complexity and over head associated with managing and operating dedicated messaging software and infrastructure

SNS: Key Concepts

Publisher: Is the guy who will be posting messages into the topic

Topic: A topic is a message/ communication channel. When you publish a message to a topic, it fans out the message to all subscribed endpoints.

Subscriber: Those people who subscribe to the topic they will be receiving the notifications

SNS is **PUSH** bases system

Simple Notification Service

Amazon SNS Pub/Sub Messaging
Decouple and scale microservices, distributed systems, and serverless applications.
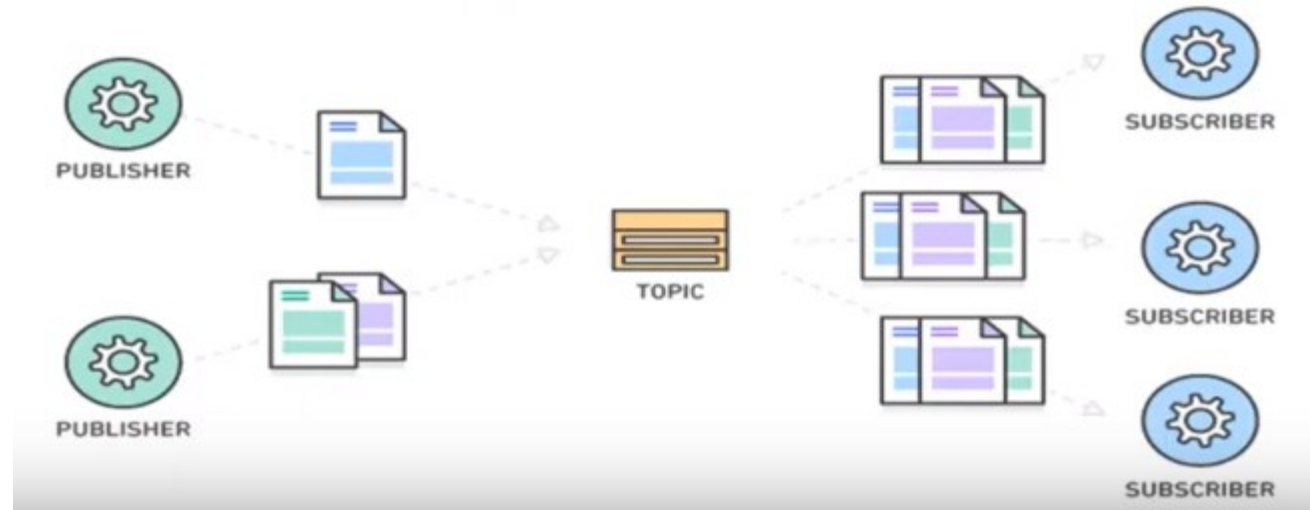
Amazon SNS Mobile Notifications
Send push notifications and SMS to mobile devices.

Publish/Subscribe(pub/sub) messaging?

- In modern cloud architecture, applications are decoupled into smaller, independent building blocks that are easier to develop, deploy and maintain.

- Publish/Subscribe (Pub/Sub) messaging provides instant event notifications for these distributed applications.

- Pub/Sub enables event-driven architectures and asynchronous parallel processing, while improving performance, reliability and scalability.

Mobile Notifications

- Amazon SNS Mobile notifications

- Amazon SNS Mobile notifications makes it simple and cost effective to send push notifications to iOS, Android, Fire OS, Windows devices

- With SNS, its easy to send updates , promos, or news to individual users, a subset of users, or all of your users, using a single message.
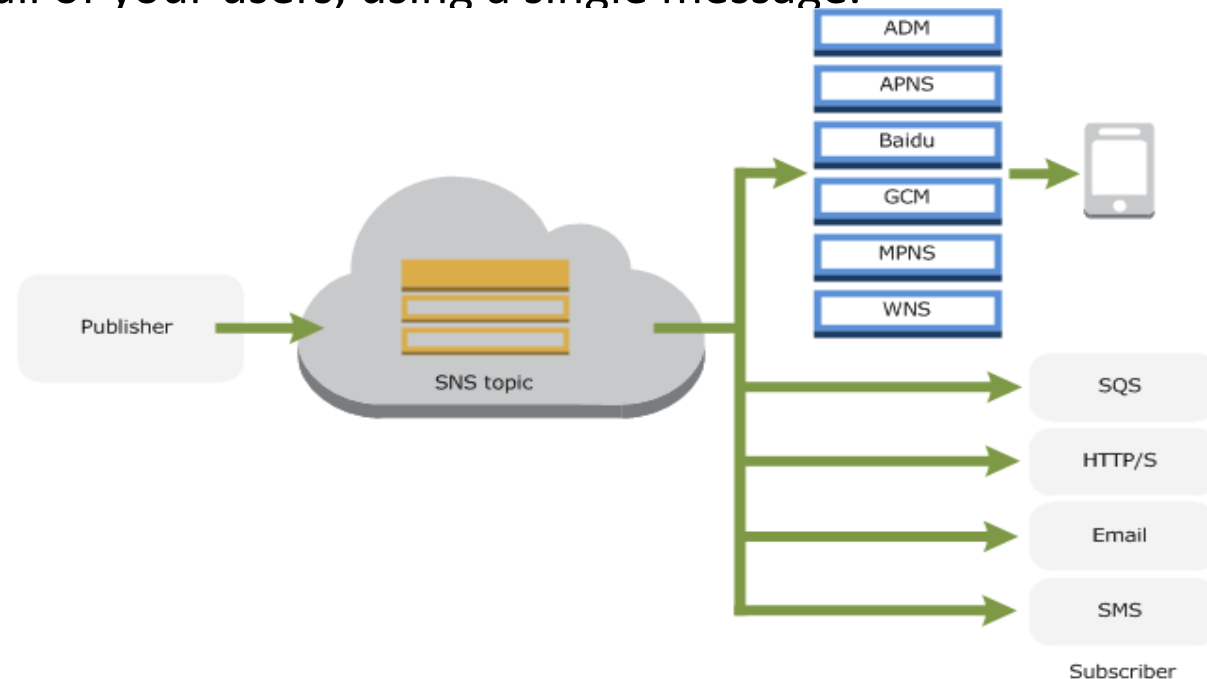
Functionality

- With SNS, you can use topics to decouple message publishers from subscribers, fan-out messages to multiple recipients at once.

- SNS supports a variety of subscription types, allowing you to push messages directly to Amazon SQS, AWS Lambda functions, Email and HTTP endpoints

- AWS services, such as EC2, S3, Cloud watch, can publish messages to your SNS topics to trigger event driven computing and workflows

- SNS works with SQS to provide a powerful messaging solution for building cloud applications that are fault tolerant and easy to scale

SNS Availablity

- To prevent messages from being lost, all messages published to Amazon SNS are stored redundantly across multiple availability zones

Exam Tips

- Instantaneous, push-based delivery(no polling).

- Simple API's and easy integration with applications.

- Flexible message delivery over multiple transport protocols

- Inexpensive, pay-as-you go model with no up front costs

- Web-based AWS management console offers the simplicity of a point and click interface.

Demo