

SNS: Simple Notification Service

If you are studying for AWS Developer Associate Exam, this guide will help you with quick revision before the exam. it can use as study notes for your preparation.

Dashboard

Other Certification Notes

SNS: Simple Notification Service

SNS is a fully managed messaging service for both application to application (A2A) and application to person (A2P) communication.

- The event producer only sends a message to one SNS topic at a time
- Many event receivers can be created to listen to an SNS topic notification
- Limits:
 - 10,000,000 subscriptions per topic
 - 100,000 topics
- Subscriber types:
 - SQS
 - HTTP / HTTPS (with delivery retries)
 - Lambda
 - Emails
 - Mobile Notifications
 - SMS text messages

SNS integrates with most AWS Services

- AWS Services can send data directly to SNS for generating notifications:
 - CloudWatch (for alarms)
 - Auto Scaling Groups
 - S3 buckets (for events)
 - CloudFormation (for state changes)

How to publish a Topic

- Simple:
 - Create a topic
 - Create a subscription
 - Public to the topic
- Publish directly from an application
 - Create an endpoint in your application
 - Publish to the platform endpoint
 - This works with:
 - Google GCM
 - Apple APNS
 - Amazon ADM

Security

- Encryption:
 - In-flight encryption using HTTPS API
 - At-rest encryption using KMS keys
 - Client-side encryption if the client wants to perform encryption/decryption itself
- Access Controls: IAM policies to regulate access to the SNS API
- SNS Access Policies (similar to S3 Bucket policies)
 - Useful for multi-account access to SNS topics
 - Useful for allowing other services to write to an SNS topic

