

SIMPLE NOTIFICATION SERVICE



SNS = Simple Notification Service

What is SNS?

"Essentials" Definition:

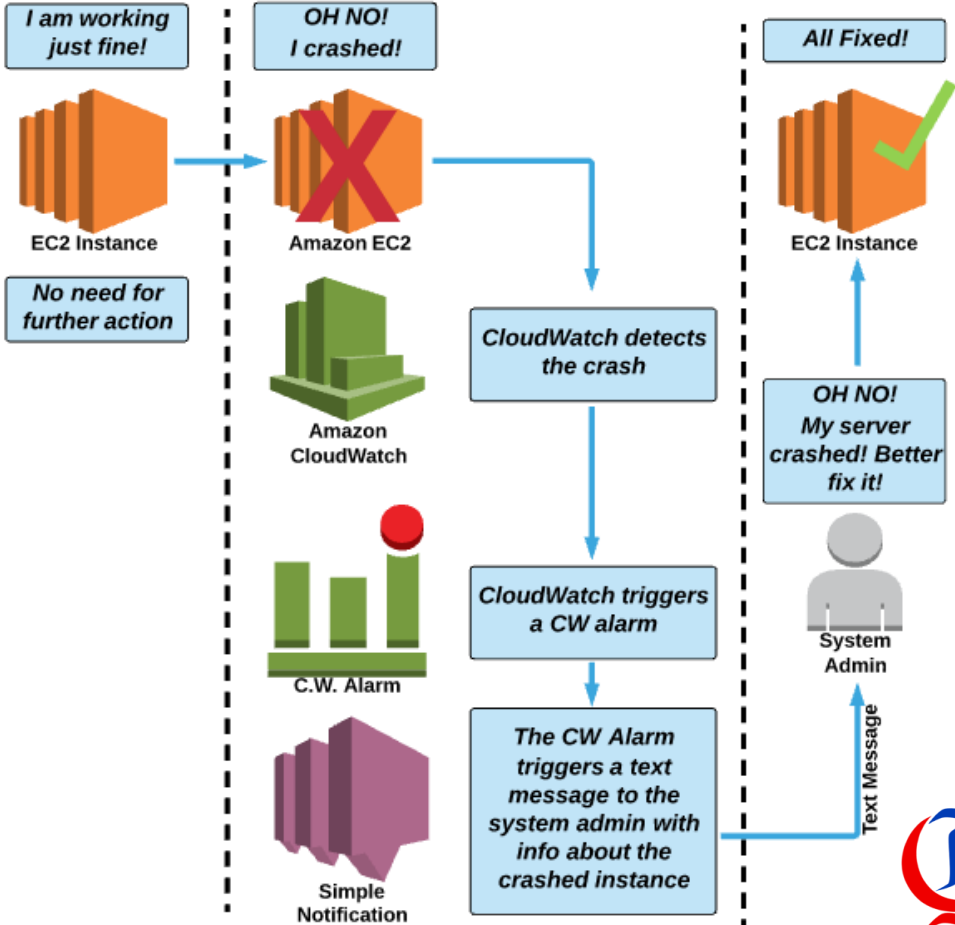
An AWS service that allows you to **automate the sending of email or text message notifications, based on events** that happen in your AWS account.

AWS Definition:

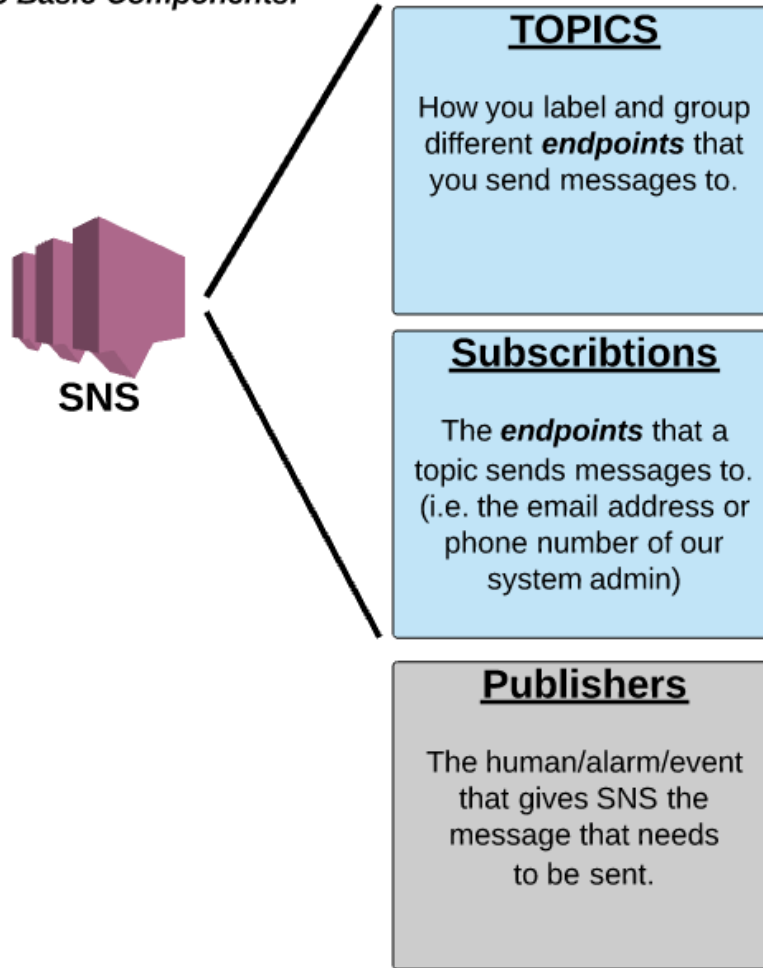
"Simple Notification Service is a web service that **coordinates and manages the delivery or sending of messages to subscribing endpoints or clients**. In Amazon SNS, there are two types of clients—**publishers and subscribers**—also referred to as producers and consumers. **Publishers** communicate asynchronously with subscribers by producing and sending a message to a topic, which is a logical access point and communication channel. **Subscribers** (i.e., web servers, email addresses, Amazon SQS queues, AWS Lambda functions) consume or receive the message or notification over one of the supported protocols (i.e., Amazon SQS, HTTP/S, email, SMS, Lambda) when they are subscribed to the topic."



SNS Usage Example/Workflow:



SNS Basic Components:



Pricing/Cost Overview:

Free Tier use is available for SNS.

How are you charged for using SNS?

(1) ***Publishes:***

-Number of SNS request (i.e the message that needs to be sent)

(2) ***Notification Deliveries:***

-The number of subscribers the message is sent to.

(3) **Data Transfer in/out of SNS:**

Creating a Topic:

Basic Steps:

- (1) Click on "Create topic".
- (2) Give the topic a name.
- (3) For SMS (text message endpoints), you must enter a display name.
- (4) Click "Create topic".

Adding Subscriptions:

Basic Steps:

- (1) Select the topic to which you want to add a subscription.
- (2) Click on "Create subscription".
- (3) Select a protocol (depending on the endpoint).
- (4) Enter the endpoint.
- (5) Click "Create Subscription".

Note: For SMS and email endpoints, the subscriber **MUST** authorize the subscription to receive messages sent by the topic.

Publishing to the Topic:

Basic Steps:

- (1) Click on "Publish to topic".
- (2) Enter a "subject" and a "message".
- (3) Click "Publish message".

Done!



CloudWatch Metrics and Alarms

CloudWatch Metrics - Creating a Dashboard:

Basic Steps:

- (1) Dashboard -> Create a Dashboard; give it a name.
- (2) Select to add a widget to the dashboard.
- (3) Explore the available metrics and select the metric you want to add to the dashboard.
- (4) Select a timer period that makes sense (based on the metric).
- (5) Create the widget!

Creating a CloudWatch Alarm:

Basic Steps:

- (1) Alarm -> Create Alarm.
- (2) Select a category.
- (3) Explore the available metrics and select one for which you want to create an alarm.
- (4) Continue to the next page.
- (5) Enter a name and description.
- (6) Set the threshold for the alarm.
- (7) Set the "actions" that you want to occur when the alarm threshold is met.
- (8) Set the "period" and "statistics".
- (9) Create Alarm.