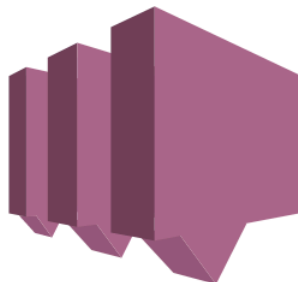# (SNS)Notification Services

What is a Simple Notification Service?

Simplified 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.
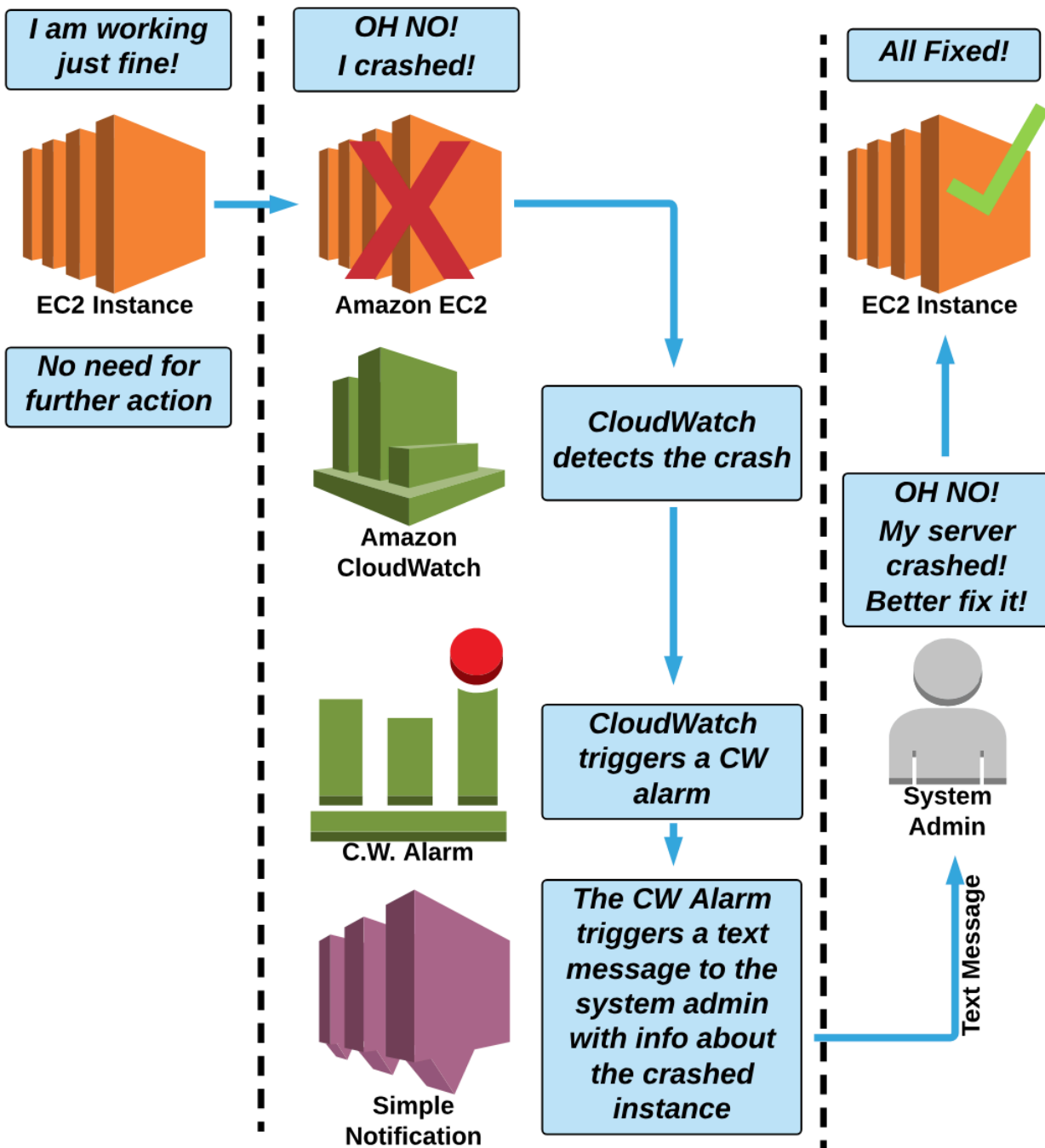
AWS Definition:
"Simple Notification Service is a web service that ***coordinates and manages the delivery or sending of messages to subscribing endpoints or clients***. In Amazon SNS, there are two types of clients—***publishers and subscribers***—also referred to as producers and consumers. ***Publishers*** 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

SNS Basics:

(timeline)

I am working just fine!

OH NO! I crashed!

All Fixed!

EC2 Instance

Amazon EC2

EC2 Instance

No need for further action

Amazon CloudWatch

CloudWatch detects the crash

OH NO! My server crashed! Better fix it!

System Admin

C.W. Alarm

CloudWatch triggers a CW alarm

The CW Alarm triggers a text message to the system admin with info about the crashed instance

Text Message

Simple Notification

SNS Basics:

TOPICS

SNS

Topics

How you label and group different *endpoints* that you send messages to.

Subscriptions

The *endpoints* that a topic sends messages to. (i.e. the email address or phone number of our system admin)

Publishers

The human/alarm/event that gives SNS the message that needs to be sent.

SNS Benefits:

Simple Notification Service (SNS):
(1) Send automated or manual notifications
(2) Send notification to email, mobile (sms), and HTTP endpoints.
(3) Closely integrated with other AWS service (such as CloudWatch) so that alarms, events, and actions in your AWS can trigger notifications.