Application Integration

Amazon Web Services

Application Integration

- Amazon Simple Notification Service (Amazon SNS)
- Amazon MQ
- Amazon Simple Queue Service (Amazon SQS)
- Amazon Simple Workflow Service (Amazon SWF)
- Amazon Step Functions

Amazon Simple Notification Service (SNS)

Amazon Web Services

What is Amazon SNS

Amazon Simple Notification Service (Amazon SNS) is a highly available, durable, secure, fully managed pub/sub messaging service that enables you to decouple microservices, distributed systems, and serverless applications. Amazon SNS provides topics for high throughput, push-based, many-to-many messaging.
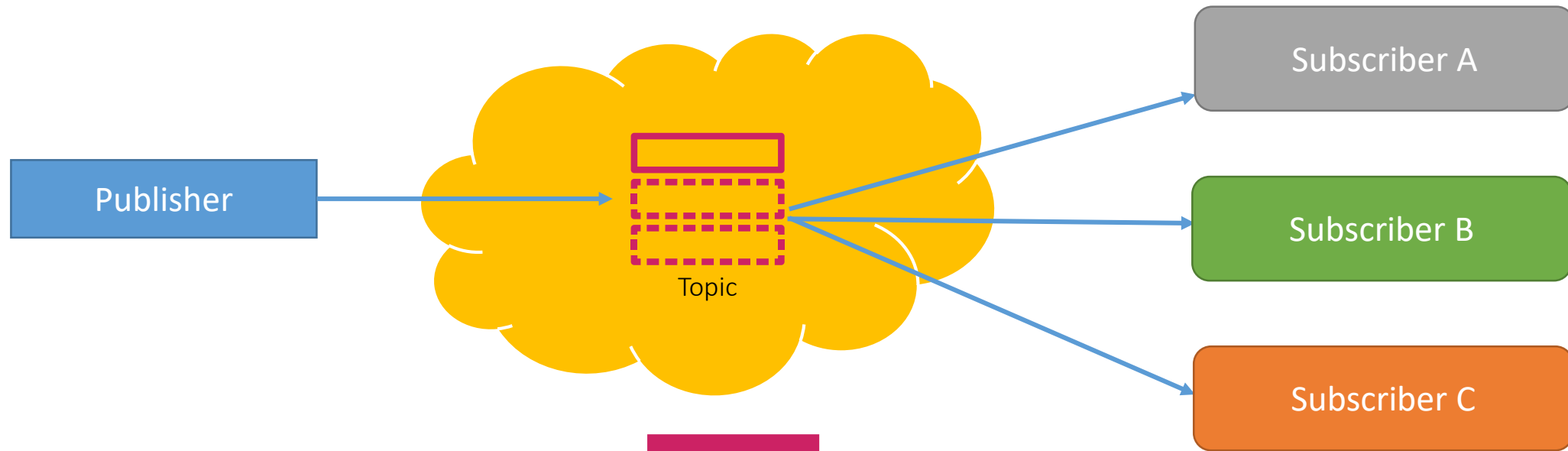
In Amazon SNS, there are two types of clients—publishers and subscribers—also referred to as producers and consumers. Publishers communicate asynchronously with subscribers by producing and sending a message to a topic, which is a logical access point and communication channel.
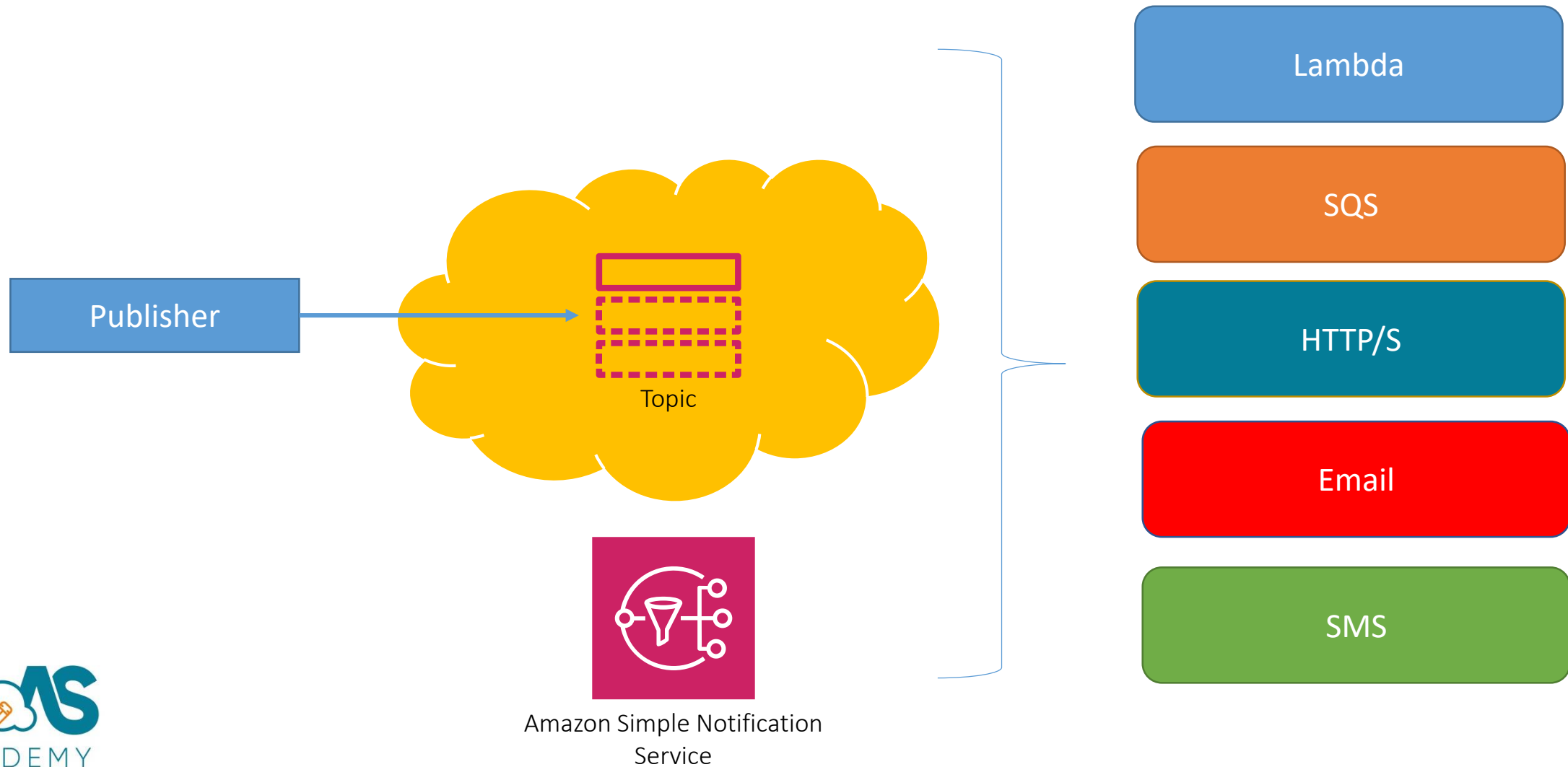
Amazon Simple Notification Service
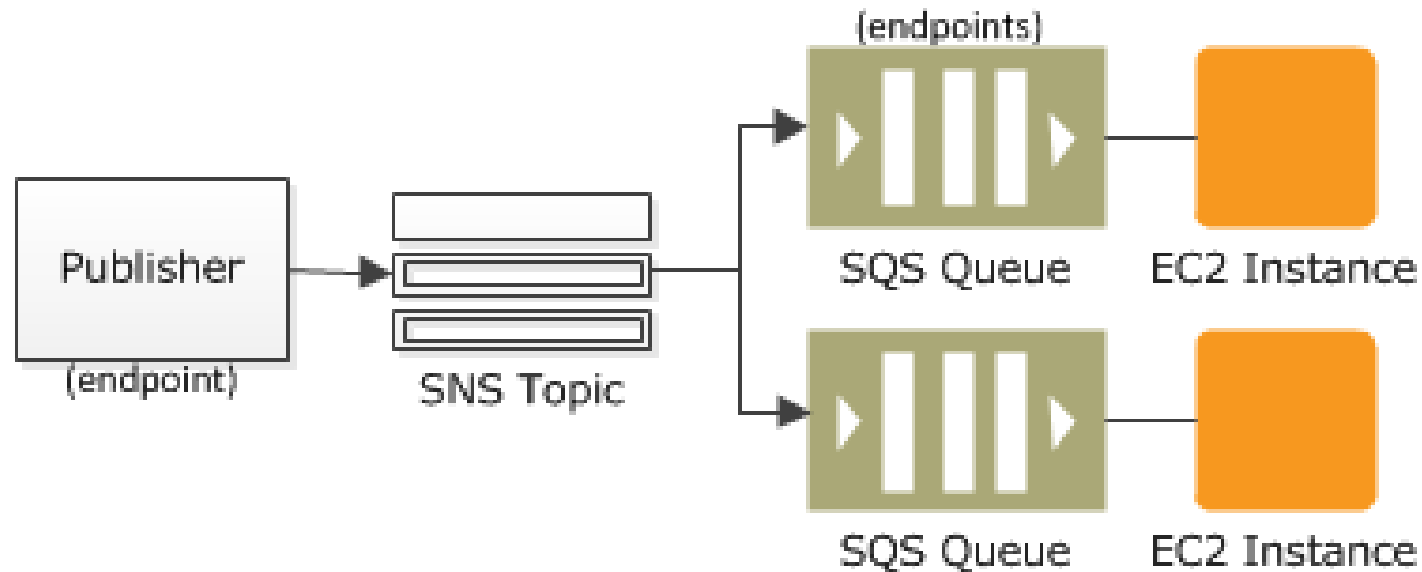
What is Amazon SNS

Push Based Messaging

Amazon Simple Notification Service

What is Amazon SNS – Supported Protocols

Publisher

Topic

Amazon Simple Notification Service
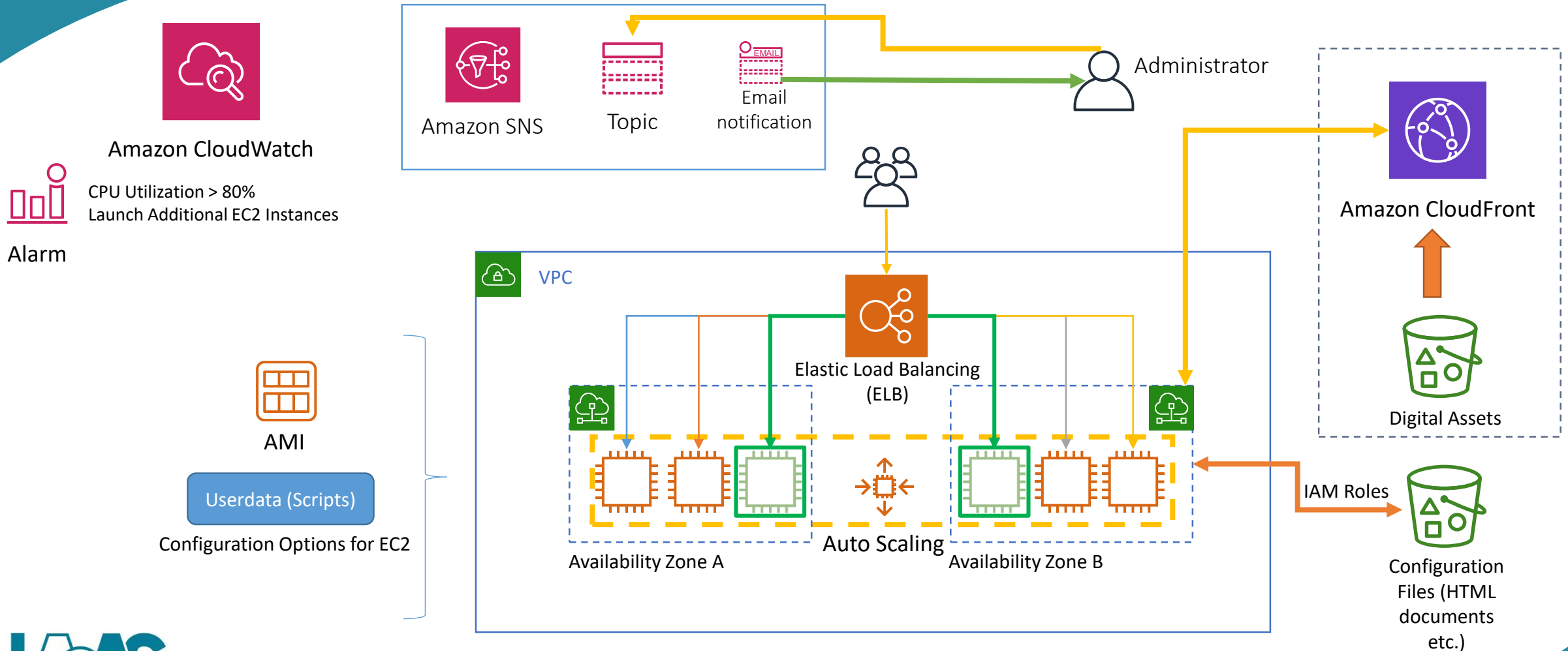
Lambda

SQS

HTTP/S

Email

SMS

What is Amazon SNS – Fanout Processing

Using Amazon SNS topics, your publisher systems can fan out messages to a large number of subscriber endpoints for parallel processing,

Amazon SNS – Sending Out Alerts

Amazon CloudWatch

Amazon SNS

Topic

Email notification

Administrator

CPU Utilization > 80%
Launch Additional EC2 Instances

Alarm

Amazon CloudFront

AMI

Userdata (Scripts)

Configuration Options for EC2

VPC

Elastic Load Balancing (ELB)

Availability Zone A

Auto Scaling

Availability Zone B

Digital Assets

IAM Roles

Configuration Files (HTML documents etc.)

Next Video

Amazon MQ