

# Know Your Initialisms

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**IAM** Identity and Access Management

**S3** Simple Storage Service

**SWF** Simple Workflow Service

**SNS** Simple Notification Service

**SQS** Simple Queue Service

**SES** Simple Email Service

**SSM** Simple Systems Manager

**RDS** Relational Database Service

**VPC** Virtual Private Cloud

**VPN** Virtual Private Network

**CFN** CloudFormation

**WAF** Web Application Firewall

**MQ** Amazon ActiveMQ

**ASG** Auto Scaling Groups

**TAM** Technical Account Manager

**ELB** Elastic Load Balancer

**ALB** Application Load Balancer

**NLB** Network Load Balancer

**GWLB** Gateway Load Balancer

**CLB** Classic Load Balancer

**EC2** Elastic Cloud Compute

**ECS** Elastic Container Service

**ECR** Elastic Container Repository

**EBS** Elastic Block Storage

**EFS** Elastic File Storage

**EMR** Elastic MapReduce

**EB** Elastic Beanstalk

**ES** Elasticsearch

**EKS** Elastic **Kubernetes** Service

**MSK** Managed **Kafka** Service

**RAM** AWS Resource Manager

**ACM** Amazon Certificate Manager

**PoLP** Principle of Least Privilege

**IoT** Internet of Things

**RI** Reserved Instances

# AWS Config vs AWS AppConfig

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## AWS Config

AWS Config is a governance tool for Compliance as Code (CoC).

You can create rules that will check to see if resources are configured the way you expect them to be.

If a resource drifts from the expected configuration you are notified or AWS Config can auto-remediate (correct) the configuration back to the expected state



## AWS AppConfig

AWS App Config is used to automat the process of deploying application configuration variable changes to your web-application(s).

You can write a validator to ensure the changed variable will not break your web-app

You can monitor deployments and automate integrations to catch errors or rollback.

# SNS vs SQS

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## The Both Connect Apps via Messages



### Simple Notifications Service

Pass Alongs Messages eg. PubSub

Send notifications to **subscribers** of **topics** via multiple protocol. eg, HTTP, **Email**, SQS, SMS

SNS is generally used for sending **plain text emails** which is triggered via other AWS Services. The best example of this is billing alarms.

Can retry sending in case of failure for **HTTPS**

Really good for webhooks, simple internal emails, triggering lambda functions



### Simple Queue Service

Queue Up Messages, Guaranteed Delivery

Places messages into a **queue**. Applications pull queue using **AWS SDK**

Can retain a message for up to 14 days

Can send them in sequential order or in parallel

Can ensure only one message is sent

Can ensure messages are delivered at least once

Really good for delayed tasks, queueing up emails



# SNS vs SES vs PinPoint vs Workmail

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## They All Send Emails



### Simple Notifications Service Practical and Internal Emails

Send notifications to **subscribers** of **topics** via multiple protocol. eg, HTTP, **Email**, SQS, SMS

SNS is generally used for sending **plain text emails** which is triggered via other AWS Services. The best example of this is billing alarms.

Most exam questions are going to be talking about SNS because lots of services can trigger SNS for notifications.

You Need to Know what are **Topics** and **Subscriptions** regarding SNS



### Simple Email Service Transactional Emails

Emails that should be triggered based on in-app actions: Signup, Reset Password, Invoices...

- A cloud based email service. eg. **SendGrid**
- SES sends **html emails**, SNS cannot.
- SES can receives inbound emails
- SES can create Email Templates
- Custom domain name email
- Monitor your email reputation



### Amazon PinPoint Promotional Emails

Emails for marketing

- Create email campaigns
- Segment your contacts
- Create customer journeys via emails
- A/B emailing testing



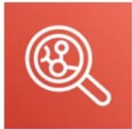
### Amazon Workmail Email Web Client

Similar to Gmail and Outlook. Create company emails, read, write and send emails from a Web Client within AWS Management Console

# Amazon Inspector vs AWS Trusted Advisor

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Both are **security tools** and they both perform audits



## Amazon Inspector

Audits **a single EC2 instance** that you've selected

Generates a report from a long list of security checks i.e 699 checks.



## Trusted Advisor

Trusted Advisor **doesn't generate out a PDF** report.

Gives you a **holistic view** of recommendations across multiple services and best practices

eg.

You have open ports on these security groups

You should enable MFA on your root account when using trusted advisor.



# Connect Names Services

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They all have “**Connect**” in the name but they are not related or similar in functionality



## Direct Connect

- A Dedicated Fiber Optics Connection from your DataCenter to AWS
- Intended for large enterprises with their own datacenter and they need an insanely fast and *private* connection directly AWS.
- If you need a **secure connection** you need apply a AWS VPN connection on-top of Direct Connect



## Amazon Connect

- Call Center as a Service
- Get a toll free number, accept inbound and outbound calls, setup automated phone systems.
- Interactive Voice System (IVS)



## Media Connect

- New Version of Elastic Transcoder, Converts Videos to Different Video Types
- You have 1000 of videos you and you need to transcode them into different videos format, maybe you need to apply watermarks, or insert introduction video in front of every video

# Elastic Transcoder vs MediaConvert

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Both services **transcodes** videos



## Elastic Transcoder

The Old Way

Elastic Transcoder was the original transcoding service. It may have programmatic APIs or workflows not available in MediaConvert.

Its exists due to legacy customers still using the platform

- Transcodes videos to streaming formats



## AWS Elemental MediaConvert

The New Way

MediaConvert is a more robust transcoding service that can preform various operations during transcoding.

- Transcodes videos to streaming formats
- Overlays images
- Insert videos clips
- Extracts captions data
- Robust UI

# AWS Artifact vs Amazon Inspector

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Both Artifact and Inspector **compile out PDFs**



## AWS Artifact

Why should an enterprise trust AWS?

Generates a security report that's based on **global compliance frameworks** such as:

- Service Organization Control (SOC)
- Payment Card Industry (PCI)



## Amazon Inspector

How do we know this EC2 instance is Secure? Prove It?

Runs a script that analyzes your EC2 instance, then generates a PDF report telling you which security checks passed.

**Audit tool for security of EC2 instances**



# ELB vs ALB vs NLB vs GWLB vs CLB

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Elastic Load Balancer (ELB) has 4 different types of possible load balancers.



## Application Load Balancer (ALB)

Layer 7 - HTTP/S

Routing Rules

- create rules to change routing based on information found in a HTTP/S request

Can attach an AWS WAF



## Network Load Balancer (NLB)

Layer 3 and 4 – TCP and UDP

Where extreme performance is required for **TCP and TLS traffic**

Capable of handling millions of requests per second while maintaining **ultra-low latencies**

Optimized for **sudden and volatile traffic** patterns while using a single static IP address per Availability Zone



## Gateway Load Balancer (GWLB)

When you need to deploy a fleet of third-party virtual appliances that support GENEVE



## Classic Load Balancer (CLB)

Layer 3,4 and 7

Intended for applications that were built within the **EC2-Classic network**

Doesn't use Target Groups

Retires on Aug 15, 2022