Role of technology in compliance

Customer perspective

Fernando Gebara Filho – Latam Regional Standards Lead - AWS

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Building a global network
Regional expansion

First 5 years: 4 regions
Regional expansion

- **First 5 years**: 4 regions
- **Next 5 years**: 7 regions
Regional expansion

- First 5 years: 4 regions
- Next 5 years: 7 regions
- 2016–2020: 14 regions
- Coming soon: 8 regions
Customer demands: Compliance
AWS Compliance

- CSA Security Alliance
- ISO 9001
- ISO 27001
- ISO 27017
- ISO 27018
- PCI Security Standards Council
- AICPA SOC 1
- AICPA SOC 2
- AICPA SOC 3
- CJIS
- FIPS
- FISMA
- DoD SRG
- FedRAMP
- FERPA
- FFIEC
- C5
- SEC Rule 17a-4(f)
- GxP
- HIPAA
- ITAR
- MPAA
- IDA Singapore
- My Number Act
- VPAT
- Section 508
- FIEC
- irap
- TISAX
- G-Cloud
- Cyber Essentials PLUS
- ENISA
Shared responsibility model
AWS Security Model when using Infrastructure Services

Customer's responsibility

AWS takes over responsibility from customers

Customer content

Client-side Data Encryption
Server-side Data Encryption (optional)
Network Traffic Protection
Platform, Applications, Identity & Access Management
Operating System, Network & Firewall Configuration

AWS Foundation Services

Compute
Storage
Database
Networking

Hardware/AWS Global Infrastructure

Regions
Availability Zones
Edge Locations

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AWS Security Model when using Container Services

Customer’s responsibility

AWS takes over responsibility from customers

Customer content

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Database

Networking

AWS IAM

API Endpoints

Hardware/AWS Global Infrastructure

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Edge Locations

Customer’s responsibility

AWS takes over responsibility from customers
AWS Security Model when using Abstracted Services

Customer’s responsibility

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API Endpoints

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Compliance, compliance, compliance
Commitment to a sustained future

On September 19, 2019, Amazon and Global Optimism announced The Climate Pledge, a commitment to meet the Paris Agreement 10 years early. Amazon is the first signatory of this pledge. The Climate Pledge calls on signatories to be net zero carbon across their businesses by 2040—a decade ahead of the Paris Agreement’s goal of 2050.

**100% Net zero carbon by 2040**
Deploying our technology and people to reach net zero carbon across Amazon by 2040, one decade ahead of the Paris Agreement.

**80% Renewable energy by 2024**
Investing in wind and solar to reach 80% renewable energy across all business operations by 2024. We expect to reach ~40% renewable energy by the end of 2019.

**100% Renewable energy by 2025**
Investing in wind and solar to reach 100% renewable energy across all business operations by 2030.

**50% Shipments and net zero carbon by 2030**
Our vision to make all Amazon shipments net zero carbon, with 50% of all shipments net zero carbon by 2030.
Investing in wind and solar energy

Globally, Amazon has nearly 70 renewable energy projects, including 18 utility-scale wind and solar projects, that have the capacity to generate over 1,600 MW and deliver more than 4.6 million MWh of energy annually.

Cloud efficiency

“Our results show that AWS’s infrastructure is 3.6 times more energy efficient than the median of the surveyed U.S. enterprise data centers. More than two-thirds of this advantage is attributable to the combination of a more energy efficient server population and much higher server utilization. AWS data centers are also more energy efficient than enterprise sites due to comprehensive efficiency programs that touch every facet of the facility.

When we factor in the carbon intensity of consumed electricity and renewable energy purchases, which reduce associated carbon emissions, AWS performs the same task with an 88% lower carbon footprint.”

Source: 451 Research, 2019, All Rights Reserved.
Thank you