



Cloud computing with AWS

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What is cloud computing?

“Cloud computing is the **on-demand** delivery of IT resources over the Internet with **pay-as-you-go pricing**. Instead of **buying, owning, and maintaining** physical data centers and servers, you can access technology services, such as computing power, storage, and databases, on an **as-needed basis** from a cloud provider.”

How do customers benefit from the cloud?

Agility

Teams can experiment and innovate quickly and frequently

Cost Savings

Only pay for what you use, leveraging economies of scale

Elasticity

Easily scale up or down with the needs of the business

Innovation

Focus on business differentiators, not infrastructure

Global Footprint

Extensive, reliable, and secure global cloud infrastructure



Businesses are transforming on AWS



Gained the **agility and automation** it needs to quickly and efficiently deliver **innovative services** to the state's citizens.



Transformed how they deliver social services to their citizens, driving **cross agency collaboration** and giving agencies **easier access to data** through a shared data repository.



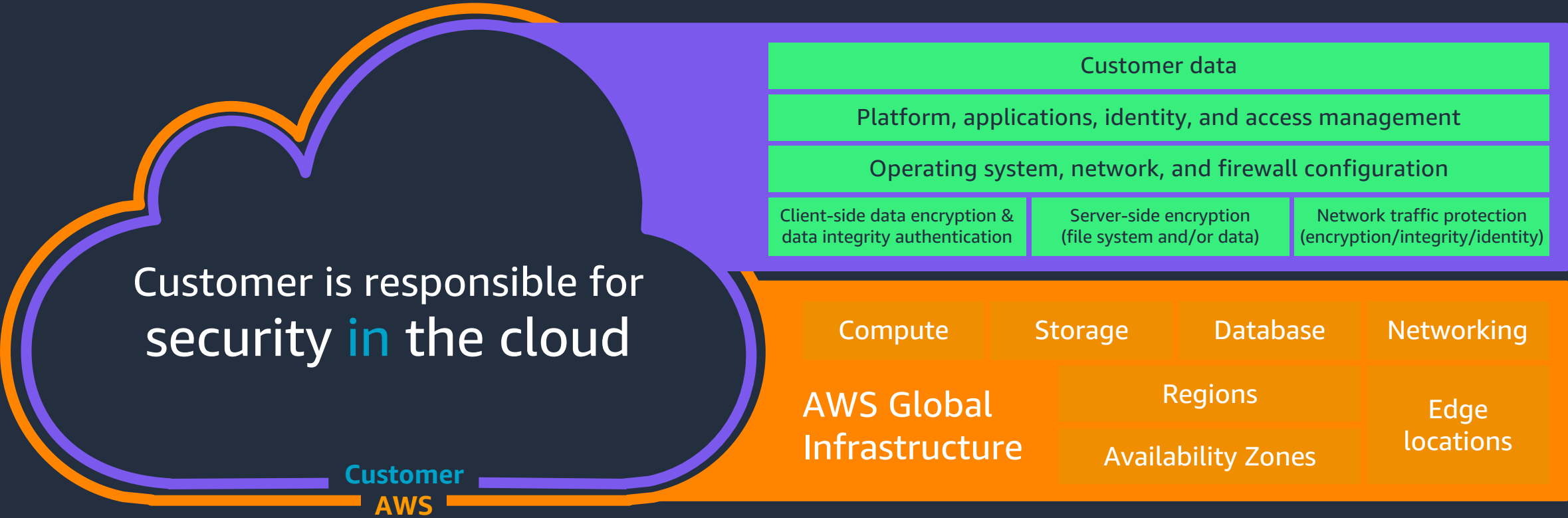
Through the Internet Crimes Against Children Data System on AWS GovCloud, the West Virginia State Police are helping investigators **rescue children faster** and **protect the privacy** of victims and suspects.



Migrated its multistate unemployment insurance system to AWS in less than 8 hours, **cutting costs by 72 percent** and scaling up **4,000 percent** to serve claimants.



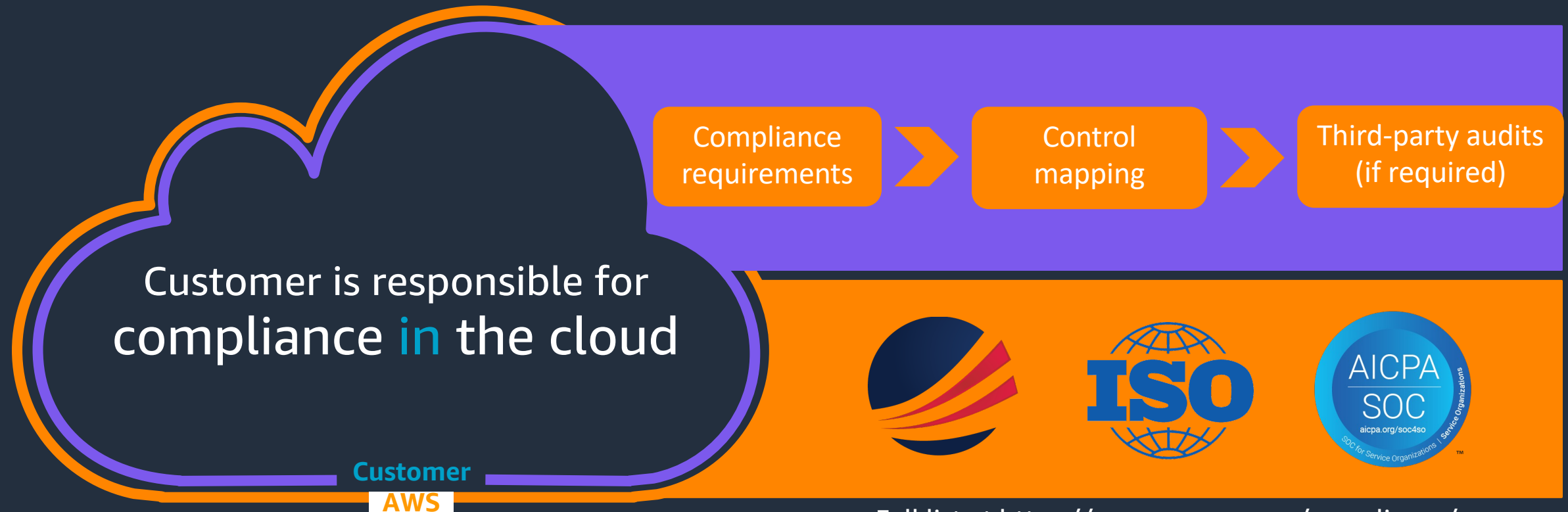
Share your security responsibility with AWS



AWS is responsible for security **of** the cloud



Shared Responsibility Model – Compliance and regulation

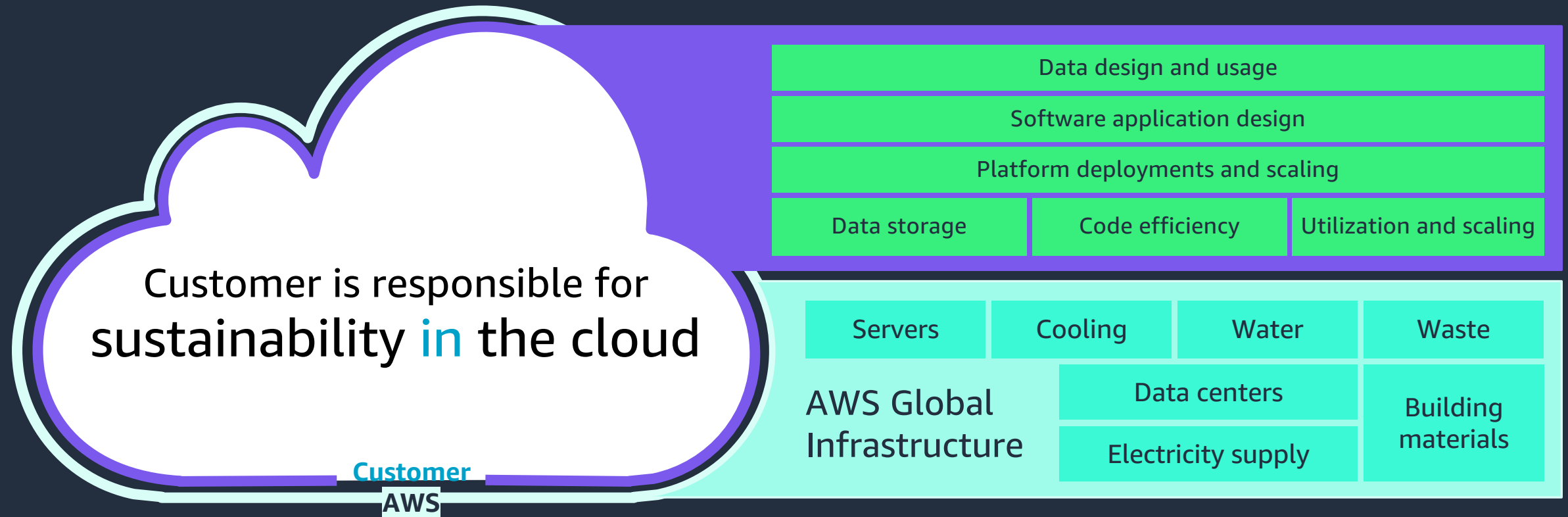


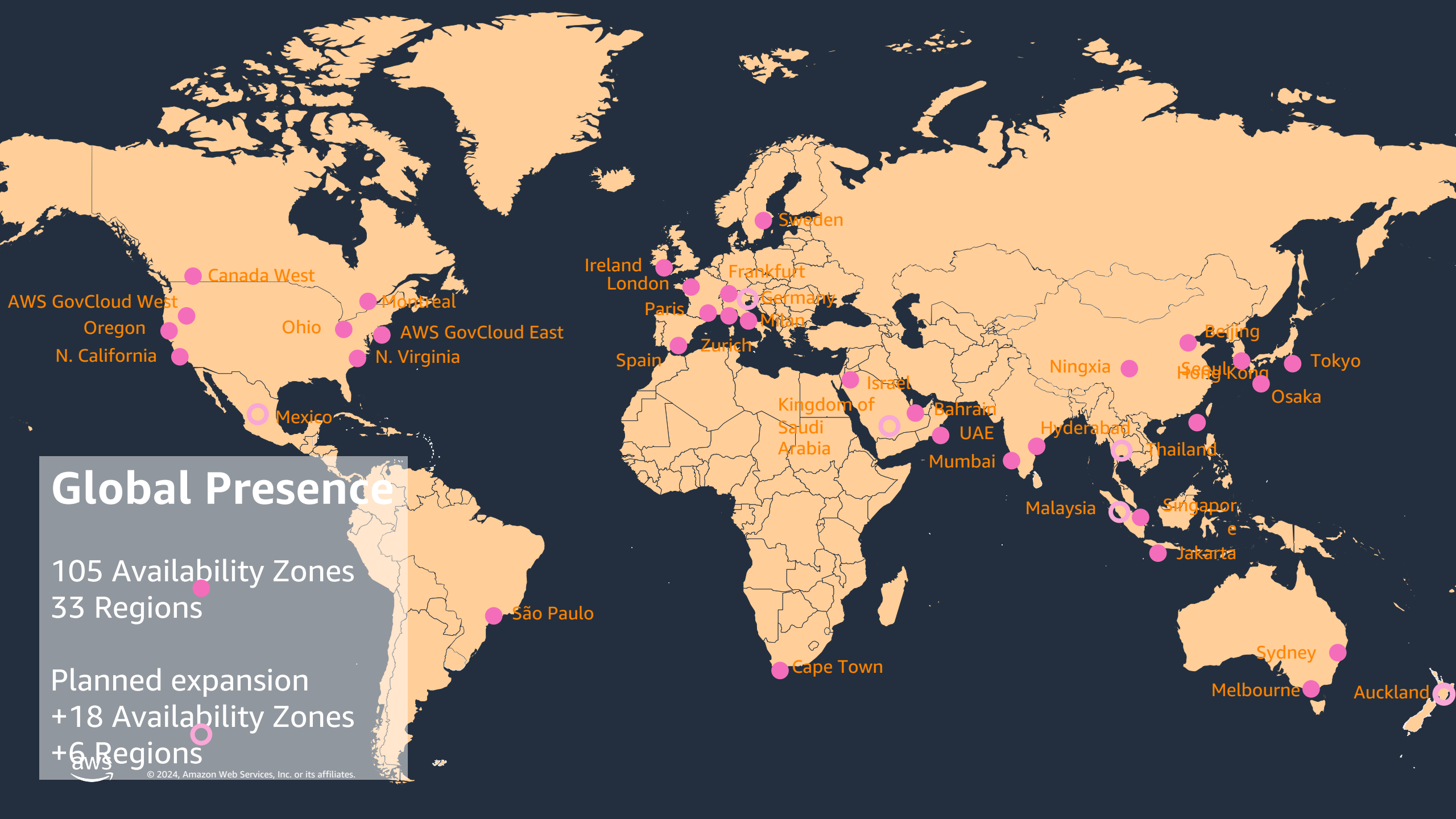
AWS is responsible for compliance **of** the cloud

Full list at <https://aws.amazon.com/compliance/>



Shared Responsibility Model - Sustainability





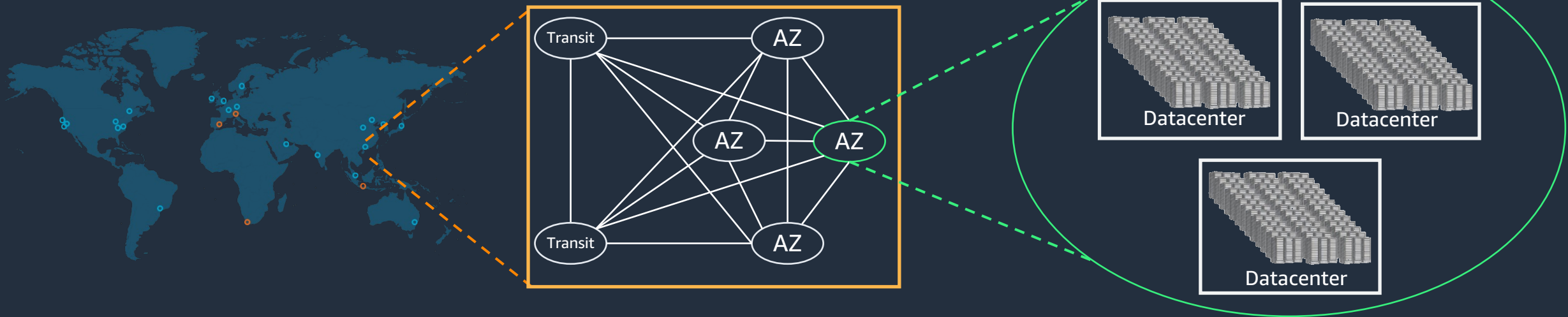
Global Presence

105 Availability Zones
33 Regions

Planned expansion
+18 Availability Zones
+6 Regions



AWS Region design



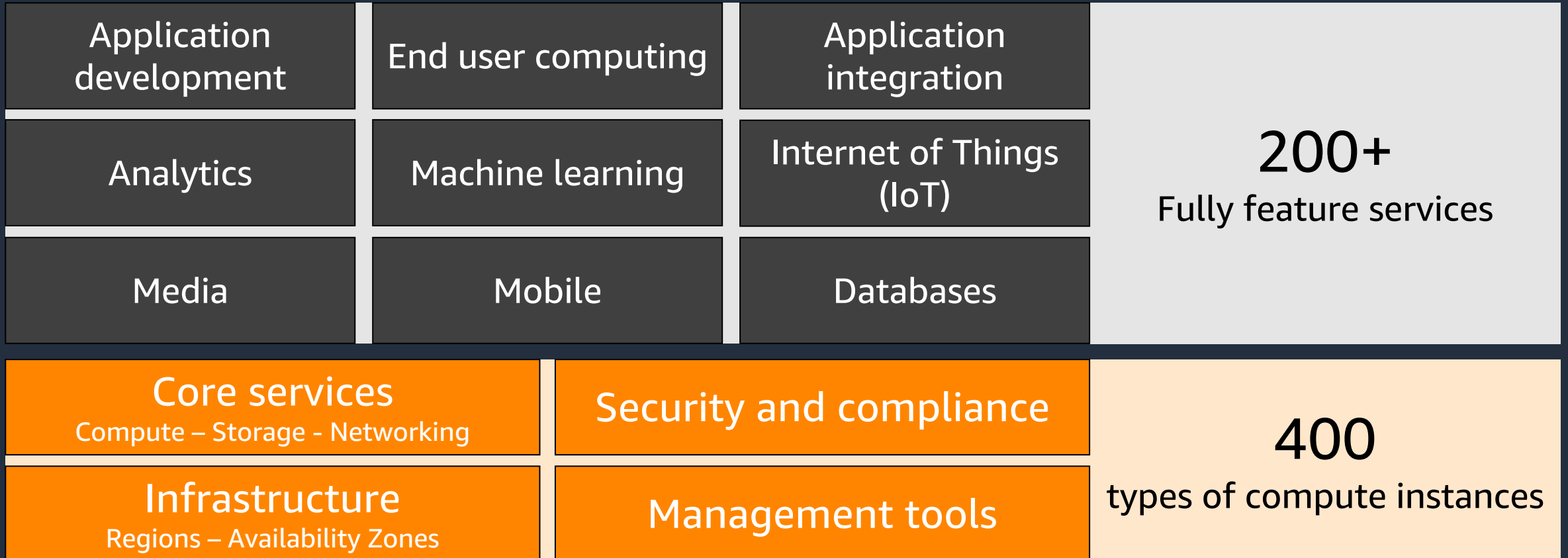
AWS Region

A Region is a physical location around the world where we cluster data centers. We call each group of logical data centers an **Availability Zone**.

AWS Availability Zone (AZ)

Availability Zones consist of one or more discrete data centers, each with redundant power, networking, and connectivity, housed in separate facilities.

Support virtually any cloud workload



AWS Customer Enablement

AWS Professional Services

Skills and experience from AWS experts to supplement your team

AWS Support

Go beyond reactive break-fix with proactive Support programs

AWS Marketplace

A curated digital catalog of software, services, and data products



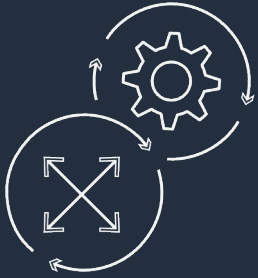
APN Partners

A global network of APN Partners with deep AWS expertise

AWS Training and Certification

Advance your team's skills and build cloud fluency by learning from AWS experts

Pillars of AWS Well-Architected



Operational excellence



Security



Reliability



Performance efficiency



Cost optimization



Sustainability

Hybrid cloud considerations

Creating a hybrid cloud strategy

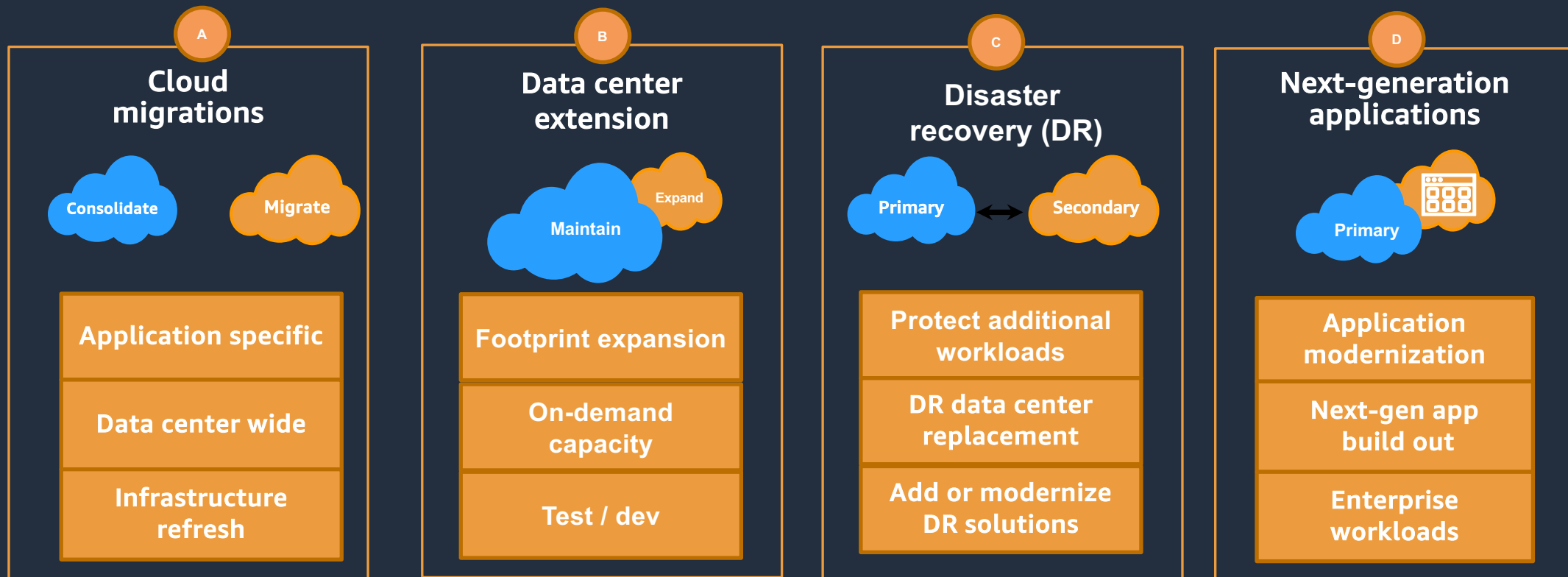
A hybrid cloud strategy provides guidelines that govern consumption of cloud and on-premises resources to support your business objectives

Creating a technical strategy

A technical strategy for the hybrid cloud identifies the guiding tenets of the hybrid cloud architecture, and defines an implementation framework

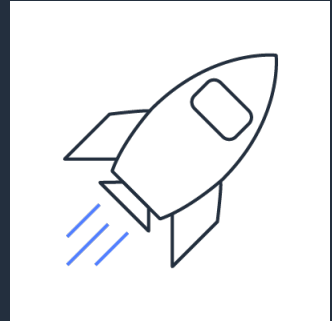


Common hybrid use cases



Customer chooses and places workloads between on premises and AWS

Getting started in your cloud journey



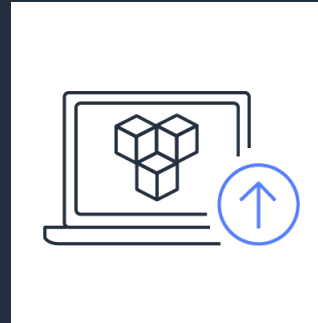
Project



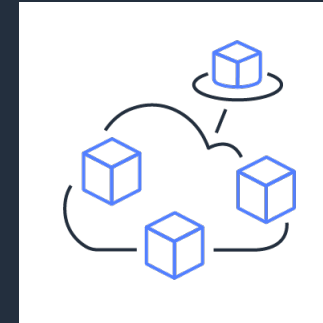
Experimentation



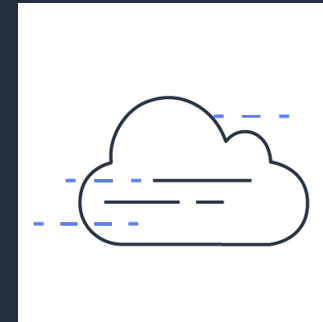
Foundation



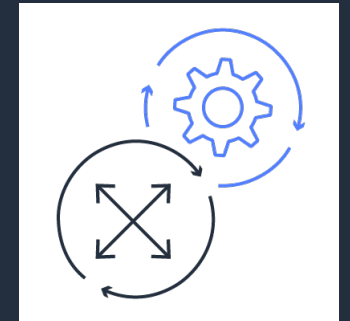
Migration



Modernization



Cloud native



Reinvention



Please complete the session survey by scanning the QR code

Thank you!

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Track: Getting started with AWS
Session: Introduction to Cloud Computing
and AWS