

Overview of Cloud Computing Digital Transformation of Business

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What are your business goals?



Grow new revenue streams



Improve operational and financial efficiency



Lower business risk



Industry leaders are building on AWS





















































































































































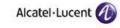






















McDonald's brings home delivery to market in four months

"This was a four month-duration for us—from idea, to development to massive scale. That's the new norm that we see everyday."

- Thilina Gunasinghe, Chief Technology Architect, McDonald's





Scalability and reliability to deliver over 1 million orders per hour



Multi-country support, each with multiple delivery partners



Cost sensitive – selling hamburgers!



Ryanair personalizes customer travel plans with machine learning

"Machine learning is hugely important to our growth, and we're pursuing a variety of AWS machine learning services, including Amazon SageMaker, to personalize the MyRyanair portal for every unique traveler."

- John Hurley, Chief Technology Officer, Ryanair





Enhances and personalizes customer experience



Automatically detects flight surge demand



Routes support requests to the right assistance type



GE Healthcare creates new digital business

"Advancing medical outcomes requires processing large amounts of healthcare data with governed access to that data for research as well as clinical application...We chose AWS for GE Health Cloud for its breadth of services and commitment to making those services compliant with global health data regulations, which was key for us."

- Mitch Jackson, vice president of cloud strategy and technology, GE Healthcare Digital





Enables image collaboration across primary care, specialists, and care settings



Improves diagnoses and treatment using machine learning



Establishes an ecosystem for innovation



Mint.com frees resources to focus on new revenue streams

"Datacenter management is not our core business. Our business is helping people improve their financial lives. We wanted to focus more on delivering exceptional financial-management products and less on managing the backend IT environment."

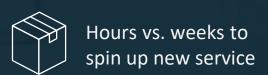
—Sean McCluskey, Director of Application Development and Cloud Operations, Intuit Mint













How to reach your business goals with AWS













Migrate and free-up resources

Adopt modern application development practices

Gain faster,
deeper insights
with
analytics

Ensure security, compliance and resiliency

Organize for speed and agility

Bridge skills and experience gaps rapidly



Migrate and free-up resources



Migrate and free-up IT resources









Reduce infrastructure costs

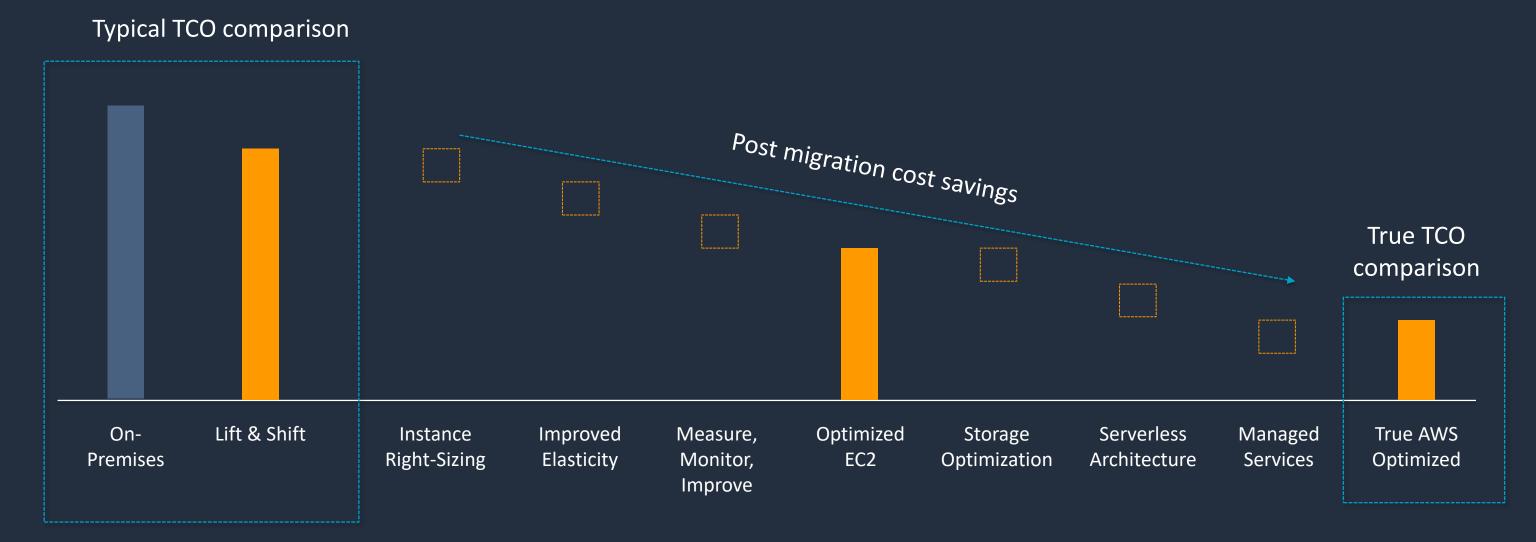
Use existing staff for higher-value work

Create momentum to grow new skills and processes

Invent and iterate with flexible resources



Cost savings improve through optimizations





Ensure migration success

with the most comprehensive set of services and expertise developed helping thousands of enterprises.





Migration business outcomes

News Corp

Consolidated 56 datacenters to 6 and saved over \$100M in avoided capital over three years



Moved 90% of data volumes to AWS and elevated security, compliance and resilience of stock trade validations



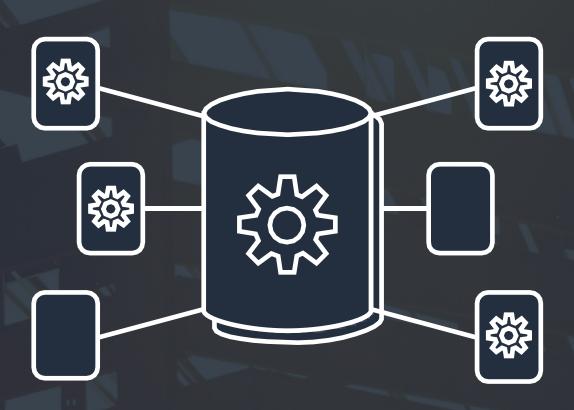
Migrated from private cloud to AWS and reduced time to market for new features on flagship credit scoring product



On-premises data center couldn't scale to meet data growth from IoT sensors, now they have unlimited data growth



Modern application development practices



Architecture evolution

When the impact of change is small, release velocity can increase



Monolithic application

Does everything
Shared release pipeline
Rigid scaling
High impact of change
Hard to adopt new technologies

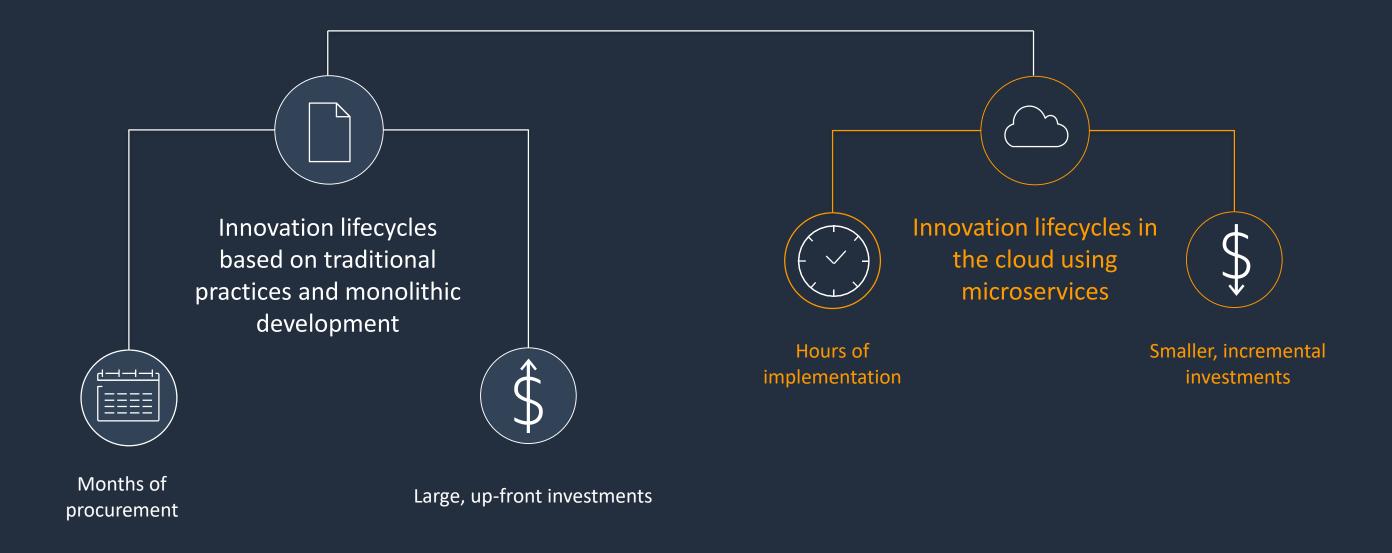


Microservices

Does one thing
Independent deployments
Independent scaling
Small impact of change
Choice of technology



Get from idea to implementation with AWS modern application development





Create more secure, reliable and scalable applications faster



developed innovative new features in one day instead of weeks



cut processing time from 36 hours to 10 seconds



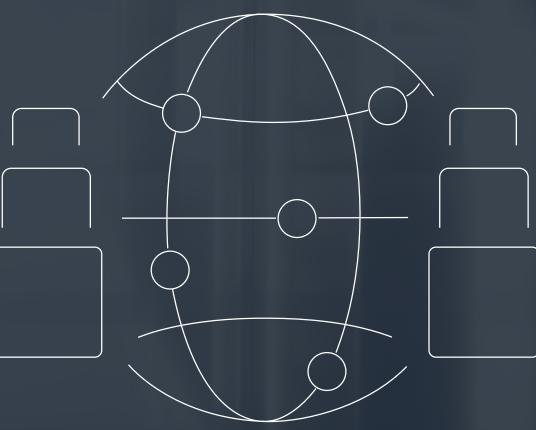
created a stock trade validation system in 3 months

The Washington Post

releases over 50+ deployments per hour



Faster, deeper insights



Gain Faster, Deeper Insights

Transform data into value, without compromising on security or governance



Speed decision-making to support your business



Deepen customer relationships



Reduce business risk



Put AI to work for your business











Customer experience

Business operations

Decision making

Innovation

Competitive advantage

40%

of digital transformation initiatives supported by AI in 2019 -1DC 2018



More machine learning happens on AWS than anywhere else



Personalize customer experience with Amazon Personalize



Better healthcare outcomes using Machine learning

SIEMENS

Accelerating financial analysis with SageMaker



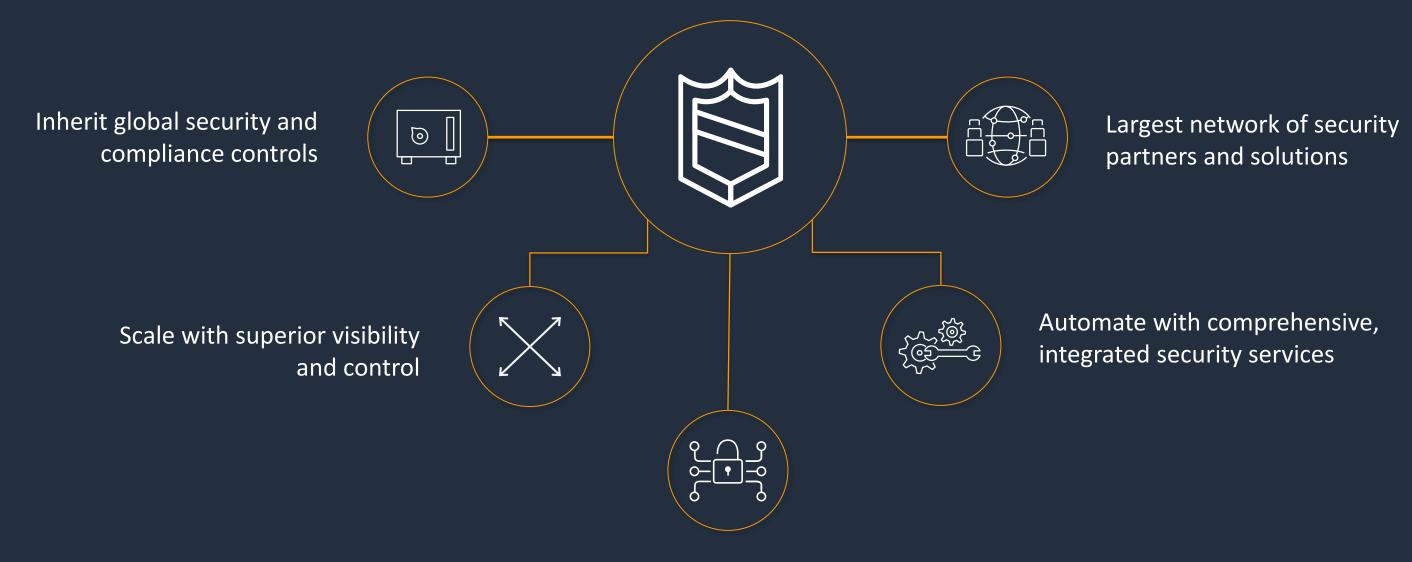
Responding to cyber threats in shipbuilding and marine industry



Ensure security and resiliency



Elevate your security with AWS



Highest standards for privacy and data security



Inherit global security and compliance controls

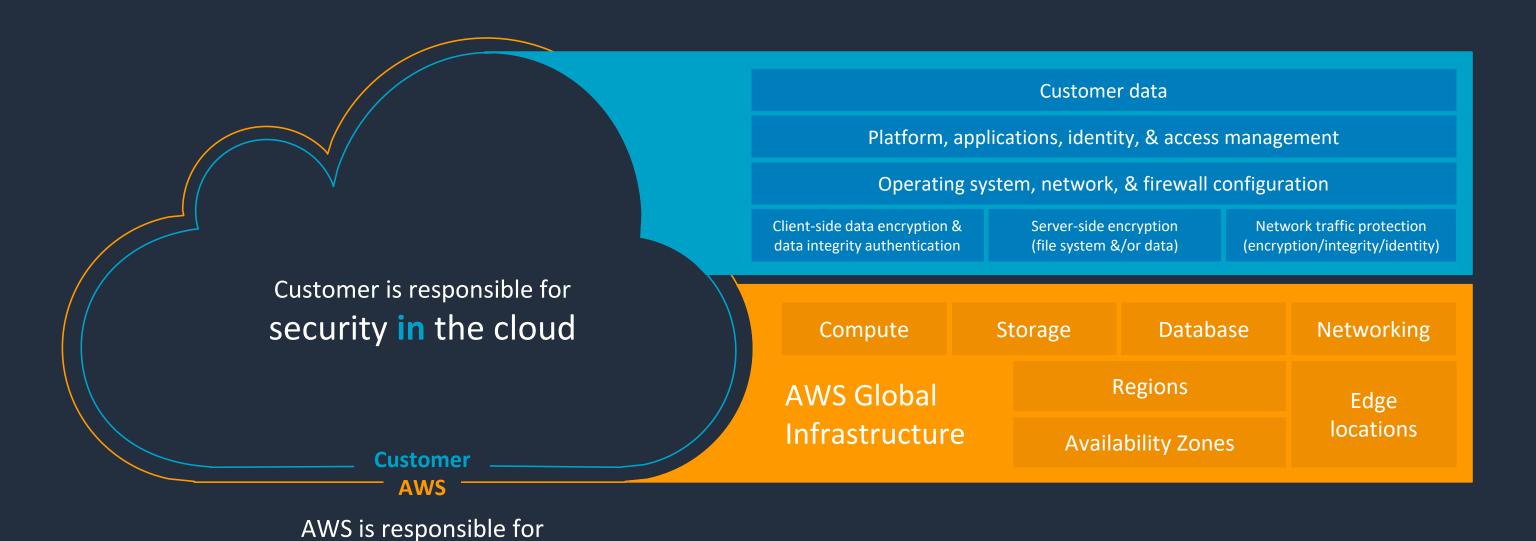
Certifications / Attestations		Laws / Regulations / Privacy		Alignments / Frameworks	
C5	DE 🗸	Agentina Data Privacy	✓	CIS (Center for Internet Security)	
Cyber Essentials Plus	GB 🗸	CISPE	EU 🗸	CJIS (US FBI)	us 🗸
DoD SRG	us 🗸	EU Model Clauses	EU 🗸	CSA (Cloud Security Alliance)	((()
FedRAMP	us 🗸	FERPA	us 🗸	ENS High	ES 🗸
FIPS	us 🗸	GDPR	EU 🗸	EU-US Privacy Shield	EU 🗸
IRAP	AU 🗸	GLBA	us 🗸	FFIEC	us 🗸
ISO 9001	₩ ✓	HIPAA	us 🗸	FISC	JP 🗸
ISO 27001	₩ ✓	HITECH	₩ ✓	FISMA	us 🗸
ISO 27017	₩ ✓	IRS 1075	us 🗸	G-Cloud	GB 🗸
ISO 27018	₩ ✓	ITAR	us 🗸	GxP (US FDA CFR 21 Part 11)	us 🗸
K-ISMS	KR 🗸	My Number Act	JP 🗸	ICREA	
MTCS	SG 🗸	UK DPA - 1988	GB ✓	IT Grundschutz	DE 🗸
PCI DSS Level 1	● ✓	VPAT/Section 508	us 🗸	MITA 3.0 (US Medicaid)	us 🗸
SEC Rule 17-a-4(f)	us 🗸	Data Protection Directive	EU 🗸	MPAA	us 🗸
SOC 1, SOC 2, SOC 3	₩ ✓	Privacy Act [Australia]	AU 🗸	NIST	us 🗸
		Privacy Act [New Zealand]	NZ 🗸	PHR	us 🗸
		PDPA—2010 [Malaysia]	MY 🗸	Uptime Institute Tiers	₩ ✓
		PDPA—2012 [Singapore]	sg 🗸	Cloud Security Principles	GB 🗸
		PIPEDA [Canada]	CA 🗸		
= industry or global standard		Spanish DPA Authorization	ES 🗸		

ES 🗸

Spanish DPA Authorization



Share your security responsibility with AWS





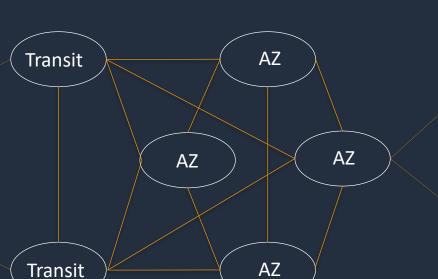
security of the cloud

Scale globally with resilience in every region

The largest global foot print consistently built with a multi-AZ and multi-datacenter design



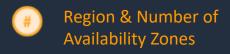
AWS Region

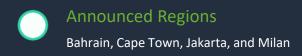


A Region is a physical location in the world where we have multiple Availability Zones. AWS Availability Zone (AZ)



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







Financial industry regulatory authority

"We determined that security in AWS is superior to our on-premises data center across several dimensions, including patching, encryption, auditing and logging, entitlements, and compliance."

- John Brady, CISO FINRA





Looks for fraud, abuse, and insider trading over nearly 6 billion shares traded in U.S. equities markets every day



Processes approximately 6 terabytes of data and 37 billion records on an average day



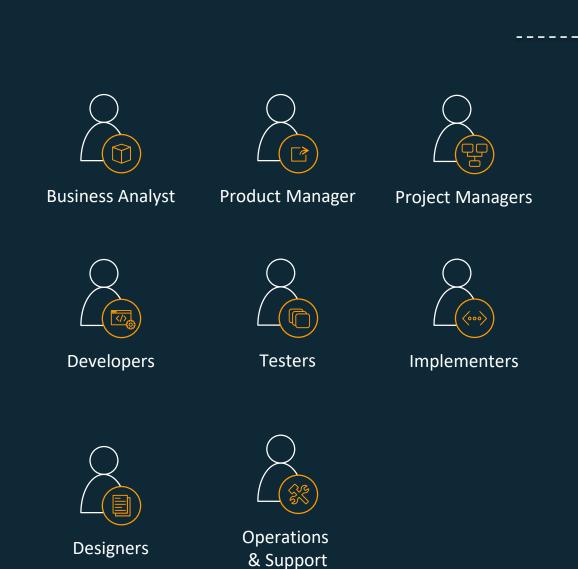
Went from 3–4 weeks for server hardening to 3–4 minutes



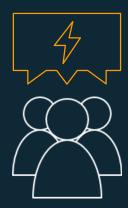
Organize for speed and agility

Most organizational models are activity-based

Outcome



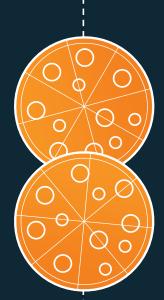
Amazon achieves speed and agility with two-pizza teams



Small, decentralized teams are nimble



Own/run what you build

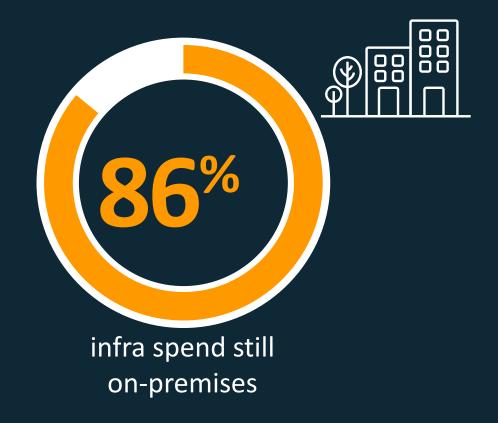


Bridge skills and experience gaps AWS Customer Enablement



Enterprise business transformation challenge





"The biggest inhibitor to cloud adoption is lack of skills.

Enterprises can't hire and train fast enough."





AWS Customer Enablement

Bridging cloud-skills gaps to accelerate business outcomes

AWS customer enablement benefits



The strongest AWS technical skills



Experiential learning for your teams



The deepest enterprise experience



Work side-by-side with partners and ISVs



Building culture and process, not just tech



Faster business transformation



Move from ideas to implementation easier, faster, more securely, and at a lower cost with AWS

Most functionality

Largest community of customers and partners

Most Secure

Most proven operational expertise

Fastest pace of innovation



Partner with the leader in cloud computing

\$31B

revenue run-rate

52%

market share

\$2.1B

quarterly YoY growth

Millions

of active users

The cloud market leader by revenue

The cloud leader by segment

The largest cloud growth

The largest number of customers



Thank-you!

