

# BC Privacy & Security Conference

*A Global Perspective on Privacy-Minded Public Sector Organizations  
Operating Securely in the Cloud*

MARK RYLAND | DIRECTOR, SECURITY, AMAZON WEB SERVICES (AWS)



Cloud Has Become The New Normal

# In The Old Days...

Spend millions for expensive, inflexible,  
slow-moving infrastructure that is  
[#FrozenInTime](#)



# Old World



Large upfront capital investment

Basic compute and storage only

Responsible for feature upgrades

Slow to get new capabilities



# aws

Low, variable cost

Broad and deep platform

New features arrive daily

Ready to use

# AWS Positioned as a Leader in the Gartner Magic Quadrant for Cloud Infrastructure as a Service, Worldwide

AWS is positioned highest in execution and furthest in vision within the Leaders Quadrant



\*Gartner, Magic Quadrant for Cloud Infrastructure as a Service, Worldwide, Leong, Lydia, Petti, Gregor, Gill, Bob, Dorosh, Mike, June 2017  
This graphic was published by Gartner, Inc. as part of a larger research document and should be evaluated in the context of the entire document. The Gartner document is available upon request from AWS: <http://www.gartner.com/doc/reprints?id=1-26226FC&ct=150518&st=us>  
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# Millions of Global & Tens of Thousands of Canadian Customers



# Trusted to Improve Data Security with the Cloud

“

Based on our experience, I believe that we can be even more secure in the AWS cloud than in our own datacenters.

**Tom Soderstrom**  
Chief Technology Officer



”

“

From a physical and logical security standpoint, I believe that, if done right, public cloud computing is as or more secure than self-hosting.

**Steve Randich**  
Executive Vice President & CIO



”

# Broad Accreditations & Certifications



ISO 9001

ISO 27001

ISO 27017

ISO 27018



# Global Examples of Protecting Citizen Data

# United Kingdom



Driver & Vehicle  
Licensing  
Agency

Capacity to support billions of monthly transactions by providing secure access to vast amounts of valuable public information while accommodating a hybrid infrastructure and meeting regulatory compliance standards.

UK Data Service



Providing a scalable cloud infrastructure to host the UK's largest collection of data including major UK government-sponsored surveys, cross-national surveys, longitudinal studies, and UK census data used for research, policymaking, and commercial use.



Transport  
for London

Host the infrastructure and website providing citizens with all forms of transport including the London Tube. 31 million journeys transacted daily on their network.



Ministry of  
**JUSTICE**

Digitized data infrastructure on AWS to securely, fairly and effectively serve citizen justice needs related to courts, prisons, and probations.

# EU - No More Ransom – [www.nomoreransom.org](http://www.nomoreransom.org)

NEED HELP unlocking your digital  
life without paying your  
attackers\*?

YES

NO

Ransomware is malware that locks your computer and mobile devices or encrypts your electronic files. When this happens, you can't get to the data unless you pay a ransom. However this is not guaranteed and you should never pay!

*Helping get valuable personal or business data back with  
a free repository of keys and applications that can  
decrypt data locked by ransomware.*

- Identified the solution to host the data, conducted testing, implemented the solution, and performed vulnerability assessment launching the site in three days.
- The new site had 2.6M visitors within the first 24 hours.
- Website was a 2017 SC Magazine Editor's Choice Award winner.

# Singapore - Land Transport Authority

“

Our experience with AWS can be summarized in three words – it has been faster, cheaper, and better.

**Rosina Howe**  
CIO & Group Director for Innovation



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- Securely stores government data connected to 8.9M commuters traveling daily.
- LTA needed a cloud solution to manage the various touch points of citizen feedback in a cost effective, secure manner.
- AWS met all Singapore government security requirements.
- Instead of building an on-prem datacenter the LTA experienced a 60% cost savings.
- Able to trust AWS to manage all disaster recovery needs due to AWS Region and availability zone structure.

# Australia - Landgate



We expect to make around AU\$51 million in savings over five years through our land registration as a service infrastructure running on AWS.

**Peter Walczak**  
Chief Digital Officer



- 189-year-old government agency that manages property ownership across one million square miles in Western Australia.
- Previous manual citizen form submission process often led to 30,000 land-registration documents needing processing.
- Land-registration deed process takes 20 seconds vs. two weeks in old model.
- AWS enables Landgate to exceed customer requirements around security, reliability, and efficiency.

# U.S. – Healthcare.Gov

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The AWS solution had a FedRAMP accreditation through HHS, and we were able to leverage that to get a lot of the base security work out of the way.

**Jon Booth**

Director, Web & New Media Group

HealthCare.gov

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- The portal where consumers can find information and sign up for insurance plans under the Affordable Care Act. Handles hundreds of thousands of users simultaneously during peak hours.
- Uses AWS for three new website features: an identity management system, a insurance plan comparison tool, and a tool to determine eligibility for specific plans based on a consumer's income and other variables.

# Canada - YVR

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We have virtually 24/7 uptime for our border-control solution in all the airports we operate in, because of the reliability we get using AWS.

**Linda Schucroft**  
Director, Innovative Travel Solutions



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- YVR's Innovative Travel Solutions (ITS) needed to quickly scale its automated passport-control application.
- Solution used in 34 airports in Canada, the United States, the Caribbean, and the Pacific, and it has processed more than 100 million travelers.

**AWS Secures Data for Billions of Individuals –**  
*So What Core Lessons Learned Can We Share?*



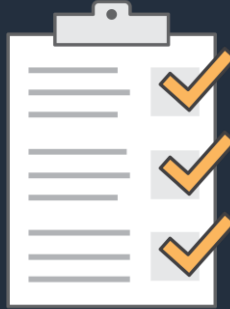
# Security At AWS Is Our #1 Priority

PEOPLE & PROCESS

SYSTEM

NETWORK

PHYSICAL



Familiar Security  
Model

Security measures are  
validated and driven by  
security experts across our  
customer base

Superset of security  
controls that benefit all  
customers

**Learning More About AWS**

[aws.amazon.com/security](https://aws.amazon.com/security)

[aws.amazon.com/canada](https://aws.amazon.com/canada)



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