Public Sector Storage Trends using Amazon Web Services

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3,000+ Academic Institutions
800+ Government Agencies

Research Data Storage
Web Site Hosting
Disaster Recovery

Climate Change Research
Data Archive
Media Streaming

High Performance Computing
Space Missions

Mission Critical Systems
Data Storage
Learning Management Systems

Transportation Research
Live Event Streaming

FISMA

FedRAMP
Agency
Authority to Operate

ITAR

Live
Event Streaming

Amazon
Web Services
Data Preservation via Durability: S3 and Glacier

- Available in all (4) US Regions
  - US East, US West (OR), US West (N. CA) and US GovCloud (S3 only)

- Designed for (11) 9s of durability per region

- Consider the durability when replicating data across multiple AWS Regions.
  - Copy 1 in S3/Glacier in US East, designed for (11) 9s of durability
  - Copy 2 in S3/Glacier in US West (OR), designed for (11) 9s of durability
Public Sector Storage in Amazon S3 and Glacier
Community Data Stores in AWS

Community Data Stewards

Library System 1
Library System 2
Library System 3
Library System 4

Data Consumers

Federal Agencies
Researchers
State/Local Gov’t
NGOs

S3
Glacier
EMR
Kinesis
RedShift
DynamoDB
RDS
EC2
Community Data Store Example: Spatial Clearinghouses

Data Steward

State University

S3

Data Consumers

Researchers

EDU Partners

Gov’t Partners
Summary…

Public Sector Storage Trends with Amazon Web Services

- Increase in trust due to FedRAMP and AWS Security & Compliance measures
- Increase in AWS adoption – backup, archive and critical business systems
- Storage architectures evolving from Client to Enterprise to Community