Using AWS to Support Enterprise Applications

City of La Mesa
October 9th, 2019

History

- The City was upgrading from Cartegraph Navigator to OMS (2015)
- Existing infrastructure at the time:
  - Desktop Esri
  - File geodatabase(s)
  - Some ArcGIS Online
  - Not sync'd with Cartegraph database
- 6 month timeline for set up, testing, to go-live

Challenges

- Short timeline

- IT constraints
  - Security
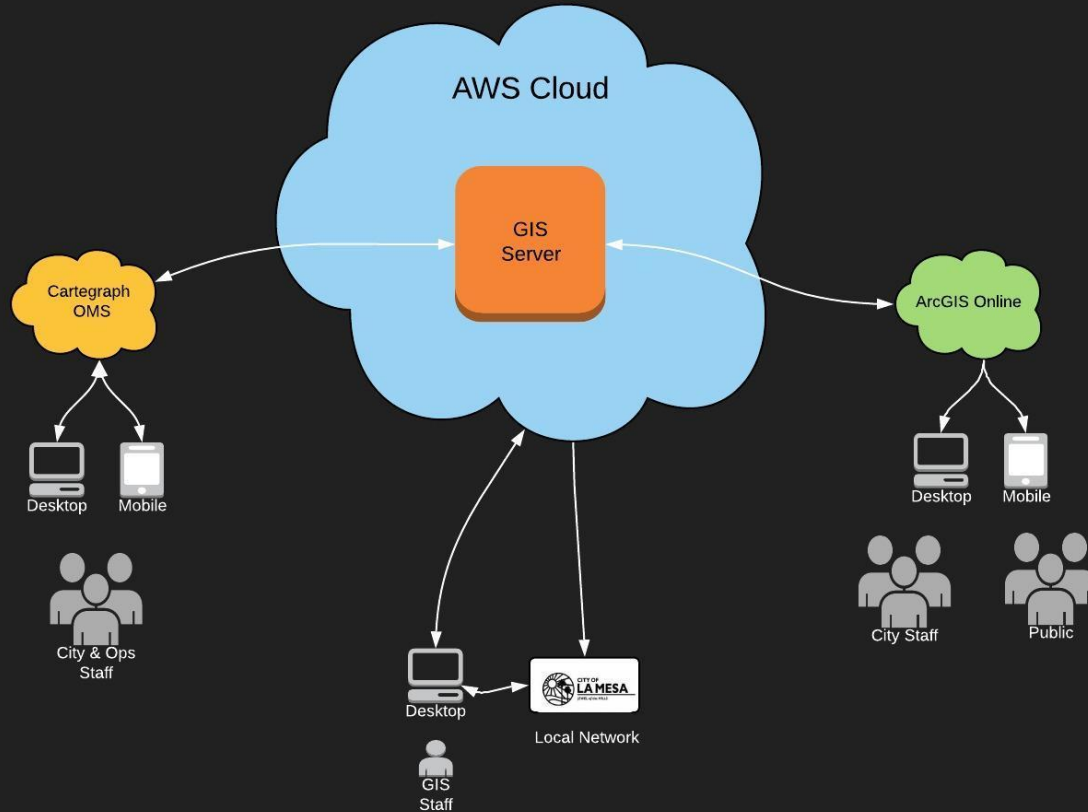 - Resources (staffing)
  - Hardware/ software

AWS Solution

➔ Cost-effective
➔ Rapid deployment
➔ Secure
➔ Scalable
➔ Separate from daily
functions of IT

City of La Mesa's Enterprise Geographic Information System

Solution Cost

- 2 vCPU, 8Gb RAM, 300Gb SSD
  Storage = $108/month

- 4 vCPU, 16Gb RAM, 300Gb SSD
  Storage = $175/month

- 8 vCPU, 32Gb RAM, 300Gb SSD
  Storage = $351/month

Today

- ## Cartegraph OMS
  - 50+ users
  - 13 assets synched

- ## ArcGIS Online
  - 20+ users
  - Collector apps
  - Internal applications serving all departments
  - Public facing apps & story maps
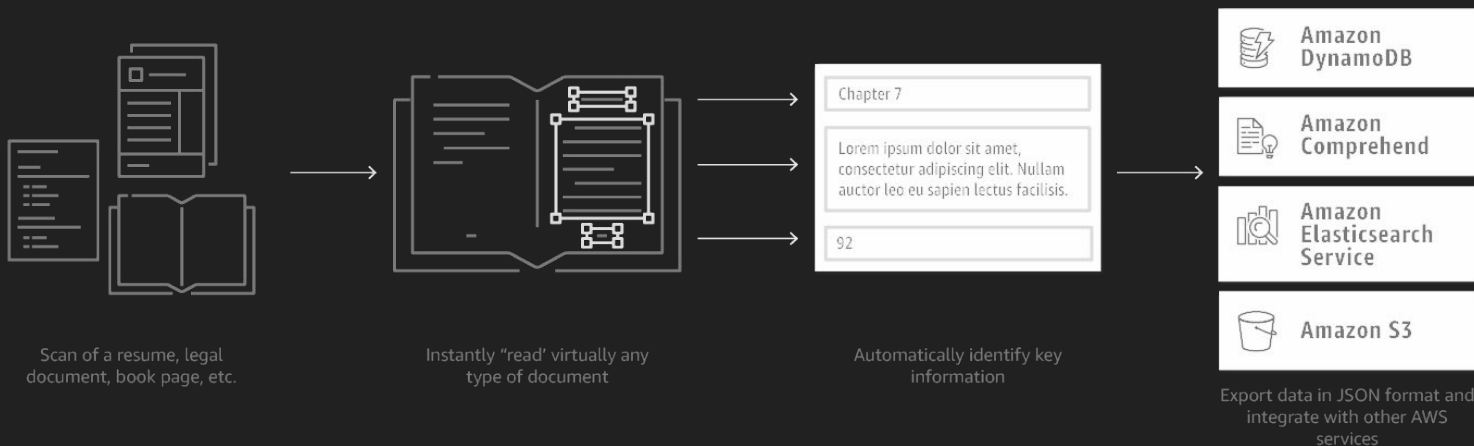
Next Steps

- Granite NET

- MaintStar

- AWS Services

AWS Textract Demo

- Extract data quickly & accurately
- No code or templates to maintain
- Lower document processing costs ($1.50 per 1,000 pages!)
- Ongoing machine learning and training

Scan of a resume, legal document, book page, etc.

Instantly "read" virtually any type of document

Chapter 7

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Automatically identify key information

Amazon DynamoDB

Amazon Comprehend

Amazon Elasticsearch Service

Amazon S3

Export data in JSON format and integrate with other AWS services

Questions?

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