

Ardent's **RAPID** Approach for Migrating Your GIS Enterprise to AWS

— It is widely-known that the Amazon Web Services (AWS) cloud offers unmatched benefits in elasticity, cost optimization, agility, innovation, and availability. Customers are increasingly evaluating the benefit of migrating their applications to the cloud, especially for use cases that require minimal downtime, high availability, and cost-optimized services. Location Intelligence applications, which typically provide geospatial visualization and analysis capabilities and are often used in public safety, emergency management, and disaster response scenarios, require unique and specialized knowledge and expertise to efficiently migrate to the cloud while meeting stakeholder expectations for low risk, minimal downtime, and repeatable processes.

To successfully execute an application migration to AWS for a large federal Enterprise GIS environment, Ardent evaluated customer needs and chose a best-fit migration solution that met stakeholder and technology criteria. Using our RAPID approach met customer needs for minimal downtime, low risk of failure, immediate cost-efficiencies gained, and a repeatable process.



Ardent's Cloud Migration approach is comprised of five steps:

1. Readiness Assessment

- Assess the technical gaps between their current platform and the destination cloud
- Communicate constantly with Development Teams for smooth transition
- Security Analysis

2. Architect for the Cloud

- Include Esri & AWS Certified Resources in Solution Architecture and Enterprise Deployment
- Define compute, networking, and technical use cases as architecture inputs
- Consider Cloud Security Architecture & ATO need

3. Perform Migration

- Devise custom scripts to improve speed of data migration to GovCloud
- Automate migration workflows from a pre-production data center environment to test cloud environment
- Deploy Target Infrastructure and coordinate with stakeholders

4. Integrate Services

- Functional, Load & Performance, CI/CD Pipeline Testing
- Data Validate and Security Controls Assessment

5. Deliver DevSecOps

- Enable and Testing Monitoring for adherence to SLAs
- Implement Service Management
- Post Migration Evaluation

In late 2020, Ardent successfully completed the largest Esri Federal Portal on-premises migration to AWS Cloud, using our RAPID approach for Cloud Migration. Our team migrated 9 geospatial applications made up of COTS and custom components and 700GB+ of geospatial data, with minimal downtime, to support 24x7 mission requirements and mission-critical stakeholder workflows.

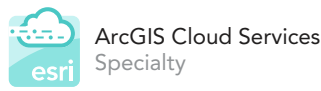
Customers, stakeholders, and development teams benefit from this consistent approach to application migration, which can be applied to diverse enterprise environments in any industry. Experience in managing on-premises geospatial enterprises is a strong foundation to understanding the need for a well-planned cloud migration, and our **RAPID approach** provides the framework within which a well-formed, complete, and secure migration can be accomplished.

Contact us to learn more about how ArdentMC can help you leverage the cloud for your geospatial solutions.

Who We Are

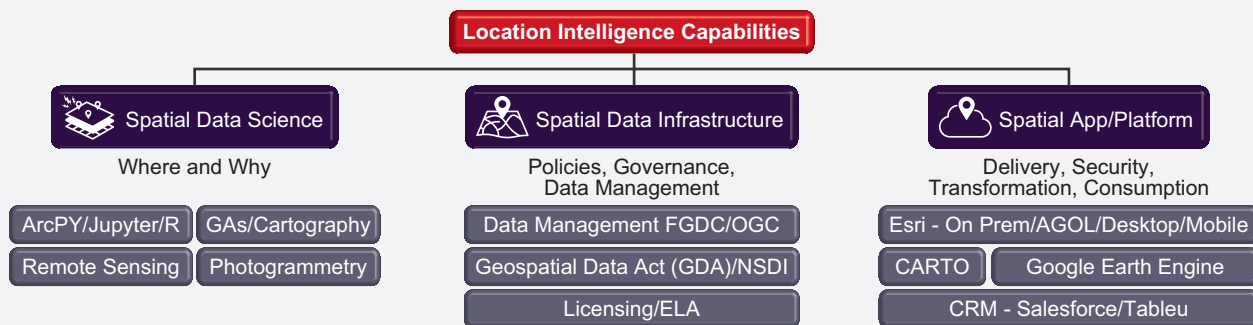
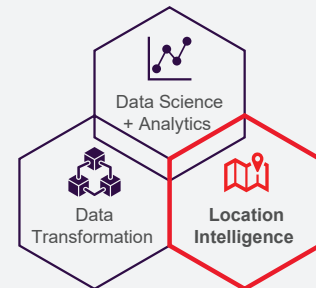
— ArdentMC is a trusted provider for geospatial information, cloud migration, and DevOps in the federal, state, and local business spheres, delivering quality products and outstanding performance initiative to every client. From program management support to systems implementation and integration, ArdentMC provides proven best practices and expertise to assist our clients in overcoming their most challenging IT and organizational change efforts. **Ardent is one of NINE companies in the world with the Esri Cloud Services Specialty.**

DELIVERING LOCATION INTELLIGENCE AT THE SPEED OF THE MISSION



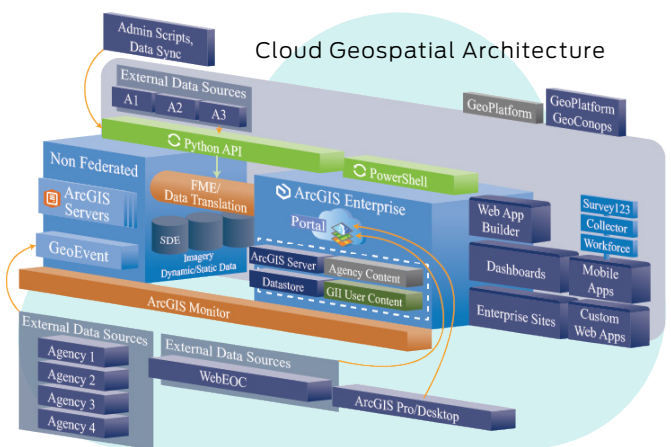
What We Do

— Our technical and geospatial experts are skilled and practiced at delivering solutions, from geospatial mapping, to geospatial analysis and collection, geospatial data management, and system integration and implementation in the cloud. We leverage our experience in digital transformation: agile development, DevOps automation, as a complement to our Location Intelligence capabilities in order to develop, migrate, and sustain specialized, mission-critical solutions for a diverse customer base.



Why It Matters

— Building, migrating, and maintaining Location Intelligence solutions in the cloud requires diverse skillsets with unique knowledge of the complexities of geospatial applications and data. ArdentMC holds an Advanced Consulting Partner designation with AWS, bolstered by our AWS Public Safety & Disaster Response Competency, in addition to a Cloud Services Specialty in our Silver Partnership with Esri. In 2021, Esri awarded ArdentMC with a System Implementation Award at the Executive Partner Conference, for our work supporting a complex cloud migration for a Federal customer. In combination, these achievements qualify Ardent’s unique, unparalleled experience, and our industry reputation as Location Intelligence Cloud Solution experts.



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