

ArcGIS Enterprise AWS Migration



The ArcGIS Enterprise AWS Migration solution from VividCloud streamlines the transition of geospatial workloads to the cloud. Leveraging the AWS Migration Acceleration Program (MAP), we help organizations modernize and optimize ArcGIS Enterprise deployments, ensuring scalability, resilience, and cost efficiency.

By combining Esri best practices with AWS-native services, VividCloud delivers a secure, high-performance foundation for geospatial applications—empowering enterprises to accelerate innovation, enhance collaboration, and unlock new insights from location intelligence.

Key Features:



Landing Zone Automation: Provision a fully governed AWS Organization with management, audit, logging, build, production, and sandbox accounts. Infrastructure-as-Code accelerators ensure rapid, repeatable, and compliant environments.



Security & Compliance by Default: Guardrails, centralized logging, and monitoring are enforced across all accounts, aligning with AWS Well-Architected and regulatory frameworks.



Optimized ArcGIS Deployment: Migrate ArcGIS Server, Portal, Data Store, and Web Adaptors into AWS-managed infrastructure with high availability, automated scaling, and disaster recovery built in.



Operational Consistency: Repeatable, error-free provisioning of ArcGIS workloads through automation, reducing manual setup and configuration drift.



Faster Time-to-Value: Deploy enterprise-ready ArcGIS environments in hours rather than weeks, accelerating geospatial project delivery.



Cost Transparency: Gain clear visibility and control across production and non-production accounts, ensuring resource optimization and predictable cloud spend.



Innovation with Control: Enable experimentation and sandbox testing without risk to mission-critical GIS systems.



Integration with AWS Services: Enhance ArcGIS with AWS-native analytics, AI/ML, IoT, and data lake services to maximize the value of spatial data.



Optimized Content Delivery for Enhanced Performance: Tile and vector cache layers can be distributed globally using content delivery mechanisms such as Amazon CloudFront, helping reduce latency for ArcGIS web apps, dashboards, and field operations.

Business Impact & Outcomes

Organizations that adopt this solution experience a measurable reduction in infrastructure cost, deployment time, and operational risk. By automating compliance and observability across environments, VividCloud helps agencies shift focus from infrastructure management to data-driven insights. Typical outcomes include 40–60% faster provisioning, 30% lower operational costs, and enhanced uptime for mission-critical ArcGIS applications — enabling GIS analysts and decision-makers to deliver more accurate, timely insights to their stakeholders.

Why VividCloud

As an AWS Advanced Tier Services Partner and an ESRI Partner with expertise in geospatial workloads, cloud-native development, and DevOps automation, VividCloud ensures migrations are seamless, compliant, and future-ready. Our deep knowledge of Esri ArcGIS Enterprise and AWS cloud services allows us to deliver end-to-end solutions that reduce operational complexity while enabling innovation.

Target Audience

The solution is ideal for organizations looking to modernize their GIS infrastructure, enhance geospatial data accessibility, and improve operational efficiency with a scalable cloud platform.



Government Agencies

Modernize GIS operations while meeting security and compliance mandates.



Utilities & Energy Providers

Ensure reliable, scalable mapping and asset management platforms.



Transportation & Logistics

Leverage geospatial intelligence for routing, optimization, and planning.



Enterprises with Geospatial Teams

Unlock cost savings and new capabilities by migrating ArcGIS workloads to AWS.

Contact Us

For further details about the technical architecture, high configurability, security and speed, please refer to the FAQ and other documents for this offering.

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