

RADAPEX Powering Modernization Through Cloud-First Migration Strategy

Public sector organisations are under increasing pressure to modernise legacy infrastructure, improve service delivery, and ensure **scalable**, **secure**, and **cost-effective** systems. In line with the UK Government's [Cloud-First policy](#) that requires departments to default to public cloud, justify alternatives, and automate provisioning. RADAPEX partnered with multiple organisations to migrate key workloads using modern cloud services like PaaS, containers, and serverless, rather than simply rehosting. By aligning with **GDS guidance** and leveraging procurement frameworks such as **G-Cloud**, we ensured secure, compliant delivery. This cloud-first approach enhanced resilience, cut costs, and laid the groundwork for long-term digital transformation.

The Challenge

Many public sector organisations continue to operate critical services on outdated, on-premise infrastructure, systems that are increasingly expensive to maintain, difficult to scale, and vulnerable to security risks. For this engagement, RADAPEX was tasked with migrating over **150 applications** across multiple organisations, impacting **hundreds of thousands** of users.

Key challenges included:

- **Lack of system ownership** and unclear accountability across legacy platforms
- **Data sovereignty and security concerns** requiring compliance with government and regulatory standards
- **Tightly coupled applications** with minimal documentation, complicating migration paths
- **Disruption risks** to essential public services during transition

A successful outcome demanded a cloud-first approach that ensured minimal downtime, improved operational resilience, and laid the foundation for future innovation all while aligning with the UK Government's **Cloud-First Policy** and public sector digital transformation goals.



CLOUD COMPUTING

“RADAPEX helps public sector organisations modernise at scale with secure, scalable, and compliant cloud solutions. Delivering real impact through cloud-first transformation”

RADAPEX Solution

RADAPEX implemented a comprehensive cloud-first migration framework centred around these key pillars:

1. Cloud Readiness Assessment and Planning

We conducted detailed assessments of existing infrastructure and applications, identifying dependencies and migration risks. Key deliverables included:

- Cloud suitability reports, often enhanced by our proprietary **App Quality Framework (AQF)**. A comprehensive tool we use to assess applications across accessibility, usability, security and other critical criteria.
- Migration roadmaps.
- Prioritisation of workloads based on complexity and business impact.

2. Cloud Architecture Design

Our AWS certified cloud architects work with client technical teams to design a scalable cloud environment that they can maintain:

- Modernised systems using **cloud-native services**, replacing outdated infrastructure.
- Designed **secure, resilient** architectures aligned with best practices and government standards.
- Embedded automation and **Infrastructure as Code (IaC)** with **comprehensive documentation** to simplify future changes.

3. Migration and Modernisation

RADAPEX executed the smooth migration and modernisation of all applications by:

- Refactoring legacy code into **scalable, cloud-native** solutions using **AWS's 7Rs** framework.
- Applying the **AQF** to consistently measure and track holistic application improvements.
- Minimising downtime through **phased migration** and **rigorous testing**.
- Migrating **terabytes** of data with fault-tolerant ETL pipelines, ensuring **zero** data loss.

4. BAU and Maintenance

RADAPEX maintains ongoing support for infrastructure and applications through:

- Delivering regular feature updates enabled by cloud services.
- Implementing continuous version **patching**.
- Conducting ongoing **accessibility testing** and enhancements.
- Performing regular assessments using the **App Quality Framework (AQF)**.

5. Governance, Compliance & Optimization

Post-migration, RADAPEX ensured:

- Continuous monitoring and optimisation for performance and cost.
- Compliance with government cloud policies and security frameworks.
- Documentation and knowledge transfer for sustainable cloud operations.

Results

Within 12 months, out of the applications RADAPEX addressed, Clients achieved significant improvements:

Metric	Before RADAPEX	After RADAPEX
Average App Quality Framework Score	1.72/5	4.75/5
User Satisfaction	55%	92%
Average Page Load Time	5.2s	2.1s
Monthly Cost	Large, unclear expenses	Reduced, transparent costs per application
App Expected Lifespan	Maximum 2 years on legacy systems	Extended with scalable cloud architecture
Uptime SLA	98%	99.9%

Additional Outcomes:

- Reduced operational costs by optimizing cloud resource usage.
- Accelerated deployment cycles, enabling faster feature delivery.
- Strengthened data security with automated compliance checks.
- Enabled seamless scalability during peak demand periods.
- Enhanced disaster recovery capabilities, minimizing service disruptions.
- Fostered a culture of continuous improvement through ongoing AQF assessments.

Conclusion

RADAPEX is a trusted partner for public sector organisations seeking to modernise their digital infrastructure with a cloud-first strategy. By combining compliance, security, and cutting-edge cloud technologies, we help clients reduce costs, improve resilience, and accelerate innovation. Laying the foundation for sustainable, scalable digital services that meet both government mandates and user expectations.

About RADAPEX

RADAPEX simplifies processes, strengthens evidence based decision making and delivers measurable efficiencies. With over a decade of experience, we integrate advanced technology with the unique priorities of the sector, enabling more effective, accountable, and resilient outcomes.

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