



Trust. Value. Velocity

G-Cloud 15

Cloud Readiness Assessment Service

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1. About Mastek

Mastek has been delivering Critical National Infrastructure programmes in the UK Public Sector for over a decade now. We are trusted with multiple contracts for the UK Government across Central Government, Health, Local Government, Policing, Public Protection and Defence. The majority of our national services are delivered in a context of high uncertainty and complexity while collaborating in multi-supplier environments.

While working for these large and complex public sector organisations, we have continuously refined our management, delivery and underlying processes to reflect key learnings from the sector:

Working through a complex stakeholder landscape: We understand the importance of establishing effective communication channels, building trust and fostering a collaborative working environment that empowers stakeholders to contribute meaningfully to the project's success. Our approach is based on a deep understanding of stakeholder needs and requirements. We leverage our experience and expertise to design governance structures that promote transparency and accountability and use data-driven reporting mechanisms to ensure stakeholders have real-time visibility into project status and progress. At the Home Office, GDS, Ministry of Defence and NHS, we have a proven track record of working seamlessly with large stakeholder groups, including civil servants.

Standards, compliances: We comply with >20 policies and standards, including Government Digital Standards and Government CDDO Service Toolkit covering service standards, service manuals, TCoP, API technical and data standards. Our stringent governance, methods, playbooks, and processes (both manual and automated) span across service delivery phases, ensuring continuous compliance.

Policy-driven: Policies and procedures largely drive Public Sector organisations. We need to be Agile and flexible to meet demands for policy/regulatory changes, geopolitical events and ministerial commitments.

Culture: We adhere to the Civil Service core values of integrity, honesty, objectivity and impartiality. Key behaviours we promote stem from a combination of Civil Service and Mastek values. These include being passionate, accountable, sustaining predictable and repeatable outcomes, not transferring risk, transparent, leading to enable, acting with transparency, practising a no-blame culture and being flexible.

Mastek's global presence



Australia

Austria

Bahrain

Belgium

Brunei

Canada

Denmark

Egypt

Estonia

Finland

France

Germany

Hungary

Iceland

India

Indonesia

Ireland

Italy

Japan

Jordan

Kenya

Kingdom of Saudi Arabia
(KSA)

Kuwait

Latvia

Luxembourg

Malaysia

Netherlands

New Zealand

Norway

Oman

Philippines

Poland

Romania

Singapore

Slovakia

Spain

Sri Lanka

Sweden

Switzerland

United Arab Emirates (UAE)

United Kingdom

USA

Did you know?

75%

Around three quarters of Local Authorities in the UK who run Oracle have worked with Mastek on their digital transformation journey.

300,000 Users

Supported managing up to 750,000 logins per month to MOD through Identity and Access Management

Crime reduction

We designed, built and manage the UK's Strategic National DNA Database that helps Forensics and Law Enforcement Authorities investigate and stop crime

90% faster

We enabled the National Health Service (NHS) to drive 90% faster response times with a billion pharmacy prescriptions a year.

Technical Service Desk

We provide level 2 and ITSM support for the One Login service at Government Digital Service

22k

Our systems enable 22,000 schools to function efficiently every day of the year.

Healthcare and manufacturing

We delivered Finance, HCM and Supply Chain transformations for clients across health and manufacturing globally powered by Oracle Cloud

Transformation of trade

Transforming UK's trade with the EU and rest of the World by supporting Customs Declarations Services and its trade users.

99.99% Availability

We support the Home Office Biometrics (HOB) Platform, Having migrated it to an AWS platform.

Our digital and cloud services portfolio

Powered by Glide 4.0 and value-based delivery

Industry-aligned approach with business outcomes

Digital engineering and experience	• Cloud engineering and migration • Legacy modernisation • Low code / no code App Dev • DevSecOps • Enterprise integration	• MACH • Digital commerce • UX and CX • Platform engineering • Gen AI software development.
Oracle Cloud and enterprise apps	• Oracle Cloud applications • Oracle consulting • Oracle Cloud infrastructure	• Value-based delivery • Glide 4.0.
Data, automation and AI	• Cloud data modernisation • Business Intelligence and Analytics	• Data management • Intelligent automation • Data Governance.
Salesforce	• Sales Cloud • Service Cloud • Marketing Cloud • Industry Cloud	• Experience Cloud • Mulesoft.
Innovation labs and platforms	• Enterprise workforce scheduler • Connected enterprise • icx-Pro – intelligent part assistant	• iLeaseFinPro.
Cloud enhancement managed services	• Oracle managed services • Digital managed services • Commerce managed services	• Salesforce managed services.

Home Office Biometrics (HOB)

Public sector platform modelled 24x7 with 99.99% availability

Problem

- Transition business-critical Platform services from incumbent supplier with minimal risk
- Migration from private cloud to AWS Cloud.

Solution

- Migrated the infrastructure from private cloud to AWS
- Embedding Kubernetes Containerisation
- Introduced Docker and fully-baked AMIs
- Supporting the platform's self-service functionality using Jenkins Jobs
- Applying security updates to the OS base images through pipelines
- Instituting automated patching and testing for infrastructure images
- Support of configuration, test and releasable artefacts through the pipeline.

Outcome

- **Zero impact** on live service
- **80% automation** of SIT
- Environment Provision **2 days to 1 hour**
- **5x scalability** in handling student BRPs
- Cost saving the authority circa **£9.5m/year.**
- Won the '**Best Use of Cloud Services**' award
- **35%** Incident Volume Reduction.



Government Digital Service

Problem

GDS initiated the One Login programme to create a single front door for identity verification and authentication, which could be adopted and scaled across all government departments. This would improve the user experience by providing the public with a single identification and verification service for the government, reduce costs as each department no longer required its own identity service and reduce identity fraud and identity-enabled crime.

GDS released a tender in June 2023 to provide a Technical Service Desk (TSD) managed service for the One Login service. This service would provide a single point of contact for level 1 and 2 service support as part of the wider support ecosystem. It would be provided in the UK and replace the incumbent's scaled-down non-ITIL-aligned break-fix service.

Solution

In September 2023, Mastek were successfully awarded the TSD contract to deliver TSD on behalf of GDS. GDS had an extremely aggressive programme driven by the onboarding of HMRC as a user, which was a major milestone planned for February 2024, migrating new and existing HMRC users to the One Login platform. The TSD service was expected to go live in November 2023. This was an extremely complex programme which, within this timescale, would deliver:

- The contact centre provider for level 0 directly facing the public
- The TSD supplier in place directly facing all government departments
- The TSD supplier in place providing L1 and L2 engineering support and monitoring
- Continued delivery on the One Login backlog of features
- Continued migration of smaller government departments to the platform.
- Delivery of a new ITSM toolset to be configured for use by GDS and the One Login programme, integrating level 0 to level 3 support
- Working as one team, Mastek quickly integrated into the programme, appointing the leadership team early in the engagement. We collaborated with GDS from the outset, ensuring we tailored the service to their expectations rather than delivering what was written in the contract.

Our leadership team consisted of:

- Service Management Vice President
- Programme Director
- Chief Technology Officer
- Programme Management office lead.

Outcome

At its height, the programme team was circa 15 strong, covering programme/project delivery, PMO, architecture, fraud, security, support, omni-channel and quality assurance. The service team is currently in place providing circa 21 resources now covering end-to-end service management, service delivery and L1 and 2 engineering roles.

As the One Login migrations continue, Mastek is supporting Government departments onboarding to the platform as they transition into the new service and provide One Login a secure Technical Service Desk managed service with:

- Omni channel access for other government departments via telephony, email and web form
- Provision of L1 and L2 engineering support
- 24x7, 365 days a week cover
- 24x7x365 eyes on monitoring service
- Fraud detection and security, GDPR compliant
- End-to-end (L0-3) incident and problem management
- End-to-end 24x7 Major incident management (MIM)
- On-call/call-out engineering support, incident and MI management
- Adherence to stringent SLAs on incident response, call handling and fix times
- End-to-end monthly service reporting alongside TSD KPI and SLA reporting.
- A shift left culture and mindset, reducing the impact of service on product teams (L3)
- Support with service maturity in the programme, preparing GDS to run critical national infrastructure.



Internet-facing platform and applications for Army Digital Services

Developed mobile app and web app with 24*7 high availability

Problem

- New Defence Gateway Portal
- Combine all internet-facing applications into one
- Easy to use
- Enable easier access to the MySeries portfolio of products.

Solution

Designed and developed the following easy-use Progressive Web Apps:

- Defence Gateway Landing Page
- My Leave App
- My Expenses App
- My Health App
- My Details App
- My Appraisal App
- My Admin App
- COVID-19 Reporting Tool
- Commanders' COVID-19 Tool.

Outcome

- Delivered 20+ successful projects
- Deployment Automation
- £7.5m in savings annually
- Zero Downtime
- Environment creation in hours.



Delivered a platform for the Department for Health and Social Care

Delivered capability supporting 200k+ tests in a day,
traced millions of COVID-19 infections

Problem

- Leveraging DevOps platform based on reusable GitHub, AWS and Azure DevOps Pipelines
- Introduce more flexible, scalable and reusable IaC capabilities
- Implement CI/CD pipelines.

Solution

- Uplifted from Cloud Formation into Terraform (IaC)
- Pre-built the AMIs using Packer, with automated security checks
- Immutable infrastructure, thus eliminating the risks of partial upgrades and patches
- Continual Cost Optimisation processes and other service functions, such as Change and Risk management
- Migrated into an organisation-wide collaboration toolset. This included Jira, Confluence, Trello, Miro, Teams, SharePoint, O365, Slack, etc.

Outcome

- 75% reduction in lead time due to pre-built AMIs
- Zero Downtime Deployments
- Delivered a Platform - Secured, multi-tenanted hosted on Azure and AWS in 5 weeks
- Cost reduction achieved through close monitoring of resource utilisation.



Mastek and Technology in the Public Sector

Technical Capabilities	Relevant Technology Capability	Mastek Scale
Software Development Continuous Integration, Platform - Other Products, Cloud Collaboration Tools		Software Engineering 2354 FTE
QA and Test: API, Automated Functional and Compatibility, Accessibility & Performance		QA and Testing 774 FTE
Cloud Platforms Amazon Web Services AWS Microsoft Azure		Cloud Platforms 1046 FTE
Data BI/MI Components, Integration		BI and Visualisation 725 FTE
User-Centered Design		UCD 25 FTE
Office Automation Tools		Collaboration 4565 FTE

2. Summary

At Mastek, we recognise the transformative power of cloud technologies for private and public sector organisations. Our **Cloud Readiness Assessment** Service is meticulously crafted to simplify the cloud adoption process. By combining detailed assessments with strategic insights, we not only pave the way for a frictionless migration to the cloud but also ensure that such a transition perfectly aligns with your strategic goals and operational demands.

Our mission is to prepare your organisation for the future of cloud computing, making the journey as seamless as possible while maximising the strategic value and efficiency gained from cloud adoption.

Our assessments combine expert-led analysis with structured frameworks and data-driven insights to provide clear, evidence-based recommendations tailored to your organisation's context.

3. Mastek's Service

Mastek's Cloud Readiness Assessment service provides a comprehensive evaluation of your organisation's readiness for cloud adoption.

Our service is structured around identifying the most beneficial and seamless path to the cloud. It considers key factors like cost, security and operational agility. This comprehensive approach ensures your organisation is well-prepared for a successful cloud migration, aligning with your strategic and operational goals.

The service produces a clear view of cloud readiness, actionable recommendations and a prioritised roadmap that enables informed decision-making and confident next steps.

Key components of our service are outlined below:

- **Strategic alignment assessment:** Evaluate the organisation's strategic objectives against potential cloud solutions to ensure the adoption strategy supports overarching business goals.
- **IT infrastructure and application portfolio review:** A comprehensive review of the existing IT environment, including infrastructure, applications and data, informed by structured analysis and automated discovery where appropriate.
- **Cloud maturity model assessment:** Assesses the organisation's current stage in the model, identifying gaps and providing a roadmap for cloud competency development.
- **Security and compliance analysis:** A detailed evaluation of security policies, data governance and compliance requirements to ensure cloud solutions meet or exceed existing standards.
- **Cloud maturity model assessment:** This assessment may be supported by standardised maturity models and tooling to ensure consistency and comparability.
- **Cost-benefit analysis:** An analysis to identify cost savings, efficiency gains and potential return on investment, supported by usage profiling and scenario modelling.
- **Cloud architecture design consultation:** Preliminary guidance on designing scalable, secure and resilient cloud architectures tailored to the organisation's needs.
- **Roadmap for cloud adoption:** A customised, step-by-step cloud adoption plan that includes prioritising applications for migration, choosing cloud models (public, private, hybrid) and establishing implementation timelines.

4. Key considerations for successful Cloud adoption

A successful cloud transition extends beyond technical readiness to include organisational, cultural and operational factors. Our assessment evaluates people, process and technology holistically to ensure cloud adoption is sustainable, well-governed and capable of delivering long-term value.

Our assessment integrates these crucial elements, focusing on cultural adaptation, leadership engagement, governance robustness and execution excellence.

This holistic approach ensures that your organisation's move to the cloud is not just a technological upgrade but a strategic transformation supported by an organisational ethos conducive to innovation and future growth.

4.1 Organisational Readiness

Our service delves into the essence of your organisation's preparedness for cloud adoption, assessing:

- The cultural landscape, evaluating the readiness and enthusiasm across the board for embracing cloud technologies.
- Financial strategies and allocations, ensuring clarity on investments and anticipated returns from cloud initiatives.
- Leadership dynamics, identifying and empowering internal cloud champions to guide the organisation towards its cloud aspirations.
- Governance structures, to establish a solid framework that ensures secure, efficient and compliant cloud operations.
- Accountability mechanisms, clearly defining roles and responsibilities to streamline the journey towards cloud adoption.

This ensures cloud adoption is supported by leadership, embedded in governance and embraced across the organisation.

4.2 Execution Capability

A successful cloud transition is built on a solid execution framework that includes the following:

- A practical, bespoke execution strategy that harmonises IT and business objectives for cloud migration.
- An evaluation of IT's readiness to support cloud strategies, spotlighting areas for skills development or augmentation.
- An organisation-wide capability assessment ensures all business facets are equipped to adapt to and thrive in a cloud-based operational model.

This enables organisations to move from readiness assessment to execution with confidence, clarity and realistic delivery expectations.

5. Key Features

Key features of our service are outlined below:

- **Bespoke assessment framework:** Tailored assessments to evaluate public sector organisations' specific needs and capabilities.
- **Expert guidance:** Access to Mastek's seasoned cloud experts for strategic and technical advice.
- **Comprehensive report:** Detailed, evidence-based reporting on assessment findings, including prioritised recommendations and clear next steps for cloud adoption.
- **Strategic roadmap development:** A customised cloud adoption roadmap, ensuring a structured and phased approach to cloud migration.

6. Business Benefits

Our Cloud Readiness Assessment Service delivers pivotal benefits that empower organisations to navigate their cloud adoption journey with confidence:

- Facilitates informed, evidence-based decision-making by providing a comprehensive understanding of cloud adoption implications.
- Aligns cloud strategies with core business objectives, ensuring technological investments drive desired outcomes.
- Identifies and mitigates technical, security and delivery risks, laying the groundwork for a smooth cloud transition.
- Uncovers opportunities for cost reduction and operational improvement, optimising resource utilisation.
- Lays the foundation for an Agile, scalable and secure IT environment capable of supporting future growth and innovation.

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