

Scaling and Optimising Cloud Platforms

G-Cloud 14 - Service Definition





Navigating the Cloud to deliver modern digital public services

The UK is experiencing an exceptionally disruptive period, facing challenges and opportunities of unprecedented scale and complexity. Digital transformation has never been more essential to help the public sector simultaneously rise to meet new challenges whilst improving the quality and efficiency of business-as-usual citizen services.

Digital technology can help governments to:

- Understand citizens better and engage with them more effectively, in line with their evolving expectations of services
- Make better decisions more quickly
- Provide services more effectively and efficiently
- Improve the security, resilience and sustainability of government service delivery
- Find new solutions to policy challenges

Cloud computing and digital transformation go hand in hand. Cloud services are fundamental to digital transformation as they enable ubiquitous access securely, backed by infrastructure that can quickly scale to support changing business priorities and user needs or where needed to support intensive use case eg Artificial Intelligence.

Thoughtworks has global experience delivering cloud-based services and leading digital transformations across the public and private sectors. We bring thought leadership to help you get your strategy right, and we support you all the way through outcome delivery with cross-functional teams of Digital, Data and Technology experts that provide exceptional value for money.

End-to-end services for your digital transformation



Strategy, Advice and Assurance



Enterprise Modernization, Platforms & Cloud



Customer Experience, Product and Design



Data and AI



Digital Applications Management and operations (DAMO™)

Unify technology, policy and operational change to gain deeper user insight, increased speed to market, new citizen value, and increased efficiencies

Evolve your organisation and deliver digital transformation that increases your agility, resilience, and ability to compete

- Cloud Transformation Strategy & Roadmap
- Innovation in the Cloud
- Cloud Technical Assessment
- Building Responsible/Ethical Cloud Services

Modernise your operation, platforms, development and delivery practices to quickly seize opportunity from disruption

- Scaling & Optimising Cloud Platforms
- Identity Management
- Cloud Open Source Technology Evaluation
- Cloud Platform Cost Optimisation
- Cloud Security Management

Rapidly drive value through extraordinary customer experiences powered by integrated tech and design

- Cloud Implementation Management
- Cloud Service Design
- Discovery

Maximise the business value and enable better decisions with pragmatic data strategies, culture and technology ecosystems

- Artificial Intelligence in the Public Sector
- Cloud Data Mesh and ML Ops Services
- AI-Assisted Software Development

Progress toward making your digital products 'zero' maintenance by applying new ideas in SRE, product evolution and data

- Cloud Project Delivery
- Managed Cloud Services
- Cloud Test Strategy & Execution
- Cloud Infrastructure as Code
- Application Architecture for Cloud
- Cloud Software Supply Chain
- Cloud Migration

Frictionless operating model

Engineering culture/delivery mindset

Platform strategy

Experience design & capability

Intelligence driven-decision-making

Underpinned by Software Engineering Excellence & Agile Practices

Service definition, Features, Benefits and Experience

Scaling and Optimising Cloud Platforms

We will perform an initial assessment of your cloud architecture, and then in partnership with your development teams, we will instrument and test your cloud-based services.

We use evolutionary architecture approaches to help you incrementally grow your service into a robust, resilient, highly scalable, well tested system.

Features

- Assessment of existing and future architecture options
- Alternative distributed approaches analysed - transactions, eventual consistency, resiliency, failure modes
- Instrumentation of systems for detailed analysis of real system behaviour
- Implementation of automated tests for performance, load, and resilience/chaos engineering
- Initial benchmarking of existing system scalability and resilience
- Design of fitness functions and associated tests for evolutionary architecture
- Incremental delivery of improved architecture, in partnership with your teams
- Pairing of roles for rapid knowledge and skills transfer
- Integrate all automated testing into continuous integration and delivery pipelines
- Dashboards for ongoing visualisation of live and test system behaviour

Scaling and Optimising Cloud Platforms

Benefits

- 25 years leadership in software architecture and enterprise integration patterns
- Architecture assessment allows for big-picture view of systems and requirements
- Distribution approach designed that balances user needs against real-world constraints
- Test-driven approach ensures that decisions are based on real data
- Load and chaos testing verifies resiliency in real-world failure scenarios
- Evolutionary architecture allows for future growth and flexibility over time
- Enables Continuous Delivery through rigorous test automation
- Partnership model ensures fast onboarding and rapid knowledge transfer
- Cross-skilled teams ensure scalability and robustness is a shared concern

Experience

Globally, Thoughtworks has delivered thousands of cloud engagements across all major cloud stacks. We have worked with UK public sector clients such as GDS, NHS, DWP, Cabinet Office, Home Office and DfT. Our corporate clients include Tesco, BP, and British Airways.

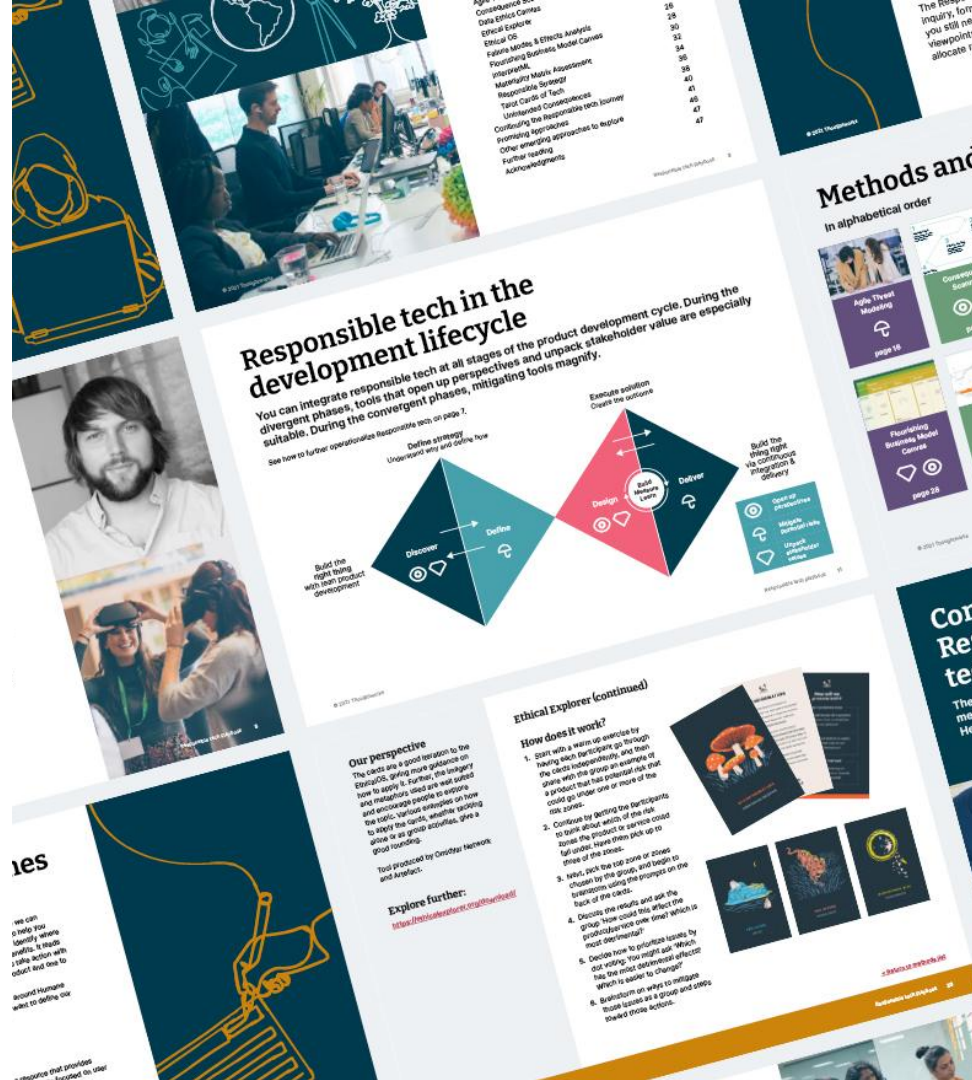
Who we are

Thoughtworks is a leading global technology consultancy that integrates strategy, design and software engineering to help our clients thrive.

For over 30 years, we've been at the forefront of digital innovation and have vast experience creating adaptable technology platforms, designing world-class digital products and harnessing the power of data and AI to unlock new sources of value.

Since helping GDS shape and deliver the Gov.UK digital transformation, we've worked extensively across the UK Public Sector to deliver some of the most critical and challenging initiatives in Government.

We're laser-focused on transforming your digital journey so you can make extraordinary impact today, tomorrow and beyond.



Experienced cloud partner across providers



Premier Partner

Public Sector
Partner Programme

*2024 Champions Club
Award Winner for UK
Public Sector*



Google Cloud

Premier Partner

Public Sector
Industry Programme

*2023 Global Diversity,
Equity and Inclusion
Partner of the Year*



Gold Partner

Government
Industry Programme

We look forward to working with you

Customer Care

Thoughtworks

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