Cloud Infrastructure as Code

G-Cloud 14 - Service Definition

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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

Strategy, Advice and Assurance	Enterprise Modernization, Platforms & Cloud	Customer Experience, Product and Design	Data and AI	Digital Applications Management and operations (DAMO™)
Evolve your organisation and deliver digital transformation that increases your agility, resilience, and ability to compete	Modernise your operation, platforms, development and delivery practices to quickly seize opportunity from disruption	Rapidly drive value through extraordinary customer experiences powered by integrated tech and design	Maximise the business value and enable better decisions with pragmatic data strategies, culture and technology ecosystems	Progress toward making your digital products 'zero' maintenance by applying new ideas in SRE, product evolution and data
- Cloud Transformation Strategy & Roadmap - Innovation in the Cloud - Cloud Technical Assessment - Building Responsible/Ethical Cloud Services	- Scaling & Optimising Cloud Platforms - Identity Management - Cloud Open Source Technology Evaluation - Cloud Platform Cost Optimisation - Cloud Security Management	- Cloud Implementation Management - Cloud Service Design - Discovery	- Artificial Intelligence in the Public Sector - Cloud Data Mesh and ML Ops Services - AI-Assisted Software Development	- 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

Cloud Infrastructure as Code

Combining industry leading software engineering practices with the latest thinking in DevOps and SRE to ensure your cloud infrastructure is fully automated Infrastructure as Code.

Composable infrastructure using platform thinking and CI/CD pipelines ensures critical changes are performed with minimal risk, now and for the lifetime of the service.

Features

- Beyond landing zones and into modular, composable, evolutionary infrastructure architecture
- Improve metrics (DORA) representing positive impact to your developer productivity
- Automation of infrastructure provisioning via secure software supply chains
- Hybrid and multicloud architectures providing best of breed
- Meet stringent security standards whilst accessing speed, performance and efficiency
- Package infrastructure capabilities for developer self-service
- Top tier partnership status and certifications with Azure, AWS, GoogleCloud
- Technology and cloud agnostic delivery capability
- Deep skills in Terraform, Ansible, Pulumi, CloudFormation, ARM, Bicep etc.

Cloud Infrastructure as Code

Benefits

- Recognized industry leader in DevOps, SRE, infrastructure automation, and testing
- Reduce Tech debt over time via domain driven design thinking
- Improved time-to-value via iterative Agile development approach
- Advanced expertise in Continuous Delivery specifically for IaC and cloud
- Reduced TCO by architecting for change via loosely coupled architectures
- Experienced consultants who engage at programme, team and individual levels
- Effective services robust to common infrastructure failure scenarios reducing risk
- Modern deployment patterns implemented e.g. canary, blue-green, autoscaling etc.
- Rapidly provision environments without creating configuration drift
- Our engineers help shape platform teams, or supplement multi-disciplinary teams

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.

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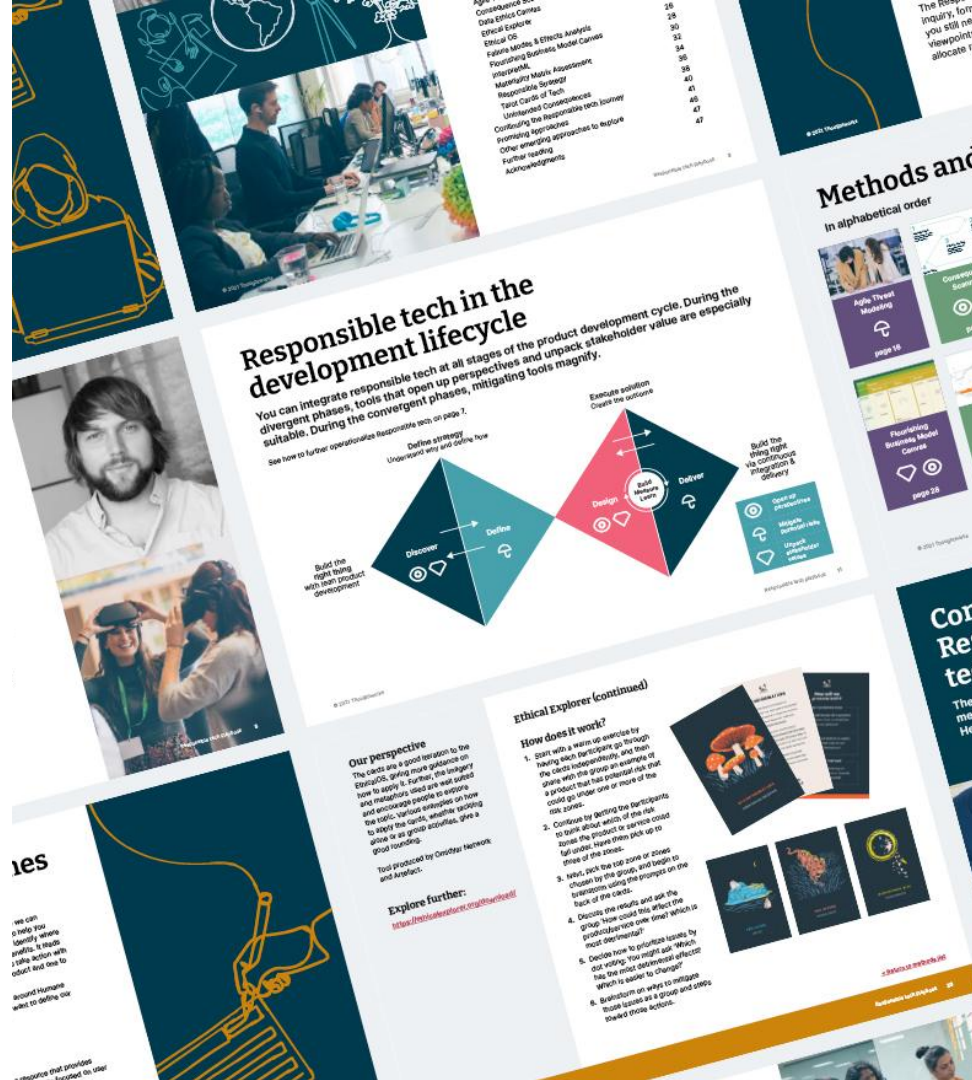
Experienced cloud partner across providers

aws

[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*

Microsoft Azure

[Gold Partner](#)

Government
Industry Programme

We look forward to working with you

Customer Care
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