

G-Cloud 15

Service Definition Document

Cloud Application Modernisation

January 2026



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1. Service detail

1.1. Introduction

EY's Application Modernisation services remain central to our Cloud Migration strategy, now enhanced with **AI-driven discovery tools**, **DevSecOps automation**, and **cloud-native engineering practices** for faster, secure transformation. The services are strategically designed to aid organisations in modernising their applications as they transition to a cloud-based infrastructure.

By leveraging EY's **Cloud Migration Factory (CMF)**, which includes the modernisation toolkit, the application modernisation process is accelerated, covering the full lifecycle from initial discovery and planning, through to the modernisation process itself, and post-modernisation optimisation and support. Our approach aligns with a **whole-of-business lens**, ensuring technology transformation supports organisational objectives.

Key updates:

- ▶ Integration of Zero Trust security architecture and continuous compliance monitoring.
- ▶ Optional digital twin modelling for complex workflows.
- ▶ Alignment with UK Government Cloud Security Principles and latest AI ethics standards

In the planning phase, we capture the application-specific business priorities, objectives, and requirements, and then use the EY **Cloud Adoption Framework** to assess the readiness of each application. Subsequently, a Modernisation Plan is tailored to account for the nuanced dependencies and specific needs of each application. Moreover, this plan considers crucial business events and seeks to strike harmony between the cloud migration process and the concurrent business roadmap.

EY has developed a cloud assessment framework focusing on strategy and business case for Customer cloud journey.

Cloud adoption journey has multiple phases, and we understand customers are currently envisioning to modernise their cloud workloads to adhere to the current best practices reference architecture patterns in use by CSP's.

EY Teams have experience in,

- ▶ Working with organisations to help design a comprehensive cloud target operating model (governance, people skills and capabilities, processes, technology, security)
- ▶ Analysing application portfolios to define cloud modernisation readiness and identify blockers for adopting a modern cloud tech stack.

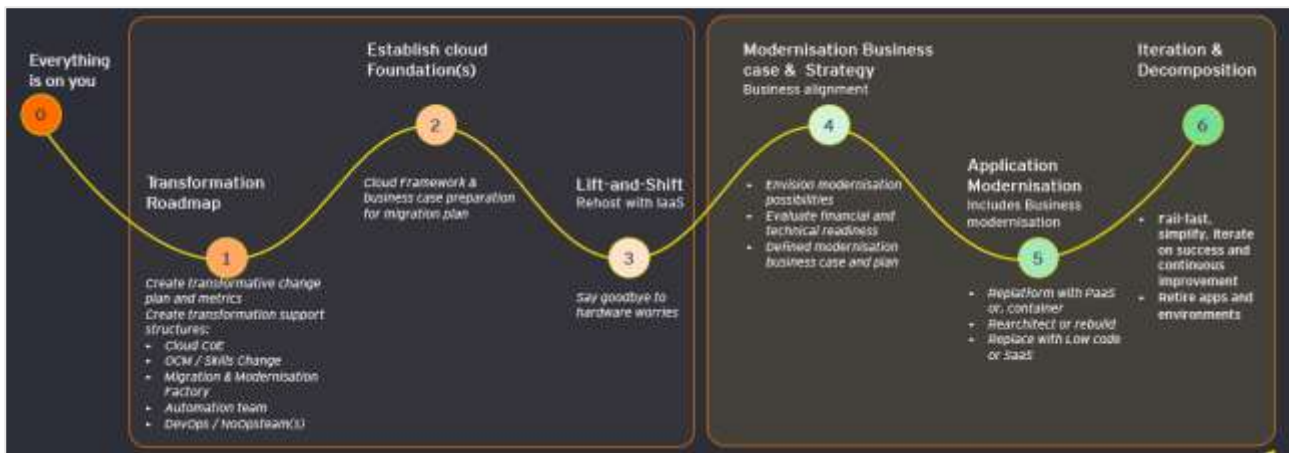


Figure 1 - App modernisation within EY's cloud migration strategy

We also deploy the EY Cloud Infrastructure Library - a suite of reusable Infra-As-Code scripts that are functional across a varied assortment of cloud services. This underpins the application modernisation and facilitates efficient migration of all digital assets, services, and databases to the cloud.

EY's Application Modernisation services further offer:

- ▶ Customised cloud landing zones, providing a consistent infrastructure for fast-tracked application deployment.
- ▶ EY's Cloud Testing Services to test and maintain the modernised applications throughout the migration process.

The desired outcome is the successful deployment of applications alongside a marked improvement in their performance, security, and scalability resulting from their modernisation. The integrated adoption of DevSecOps Automation across the digital estate ensures the upkeep of these enhancements.

1.2. Description

At EY we offer to define cloud application modernisation readiness and identify blockers for adopting a modern cloud tech stack by having below Cloud modernisation initiatives.

- ▶ **Creation of Transformation Roadmap:** Creation of transformative change plan and metrics and below transformation support structures:
 - Cloud CoE
 - OCM/Skills Change
 - Migration & modernisation Factory
 - Automation team
 - DevOps/NoOps team(s)
- ▶ **Establishing Cloud Foundations:** Crafting a robust Cloud Framework alongside a meticulously prepared business case to outline the strategic migration plan
- ▶ **Modernisation Business Case & Strategy:** A comprehensive evaluation of both technological advancements and financial benefits, aligned with HM Treasury Green Book guidance. This strategy encompasses a detailed analysis of current systems and

their potential evolution, while also protecting the cost savings and value creation that modernisation efforts will bring

- ▶ **Application modernisation:** A strategic overhaul of their software portfolio to harness the latest in cloud-native technologies and development practices. This approach is designed to revitalise legacy applications through re-platforming, re-hosting, or refactoring, consequently boosting performance, scalability, and integration capabilities.

Transformation forms a continual journey for us at EY, and we aim to escort public sector organisations through this voyage, fostering adaptation, innovation, and growth every step of the way. Our goal is to equip these organisations with the tools and techniques they need to leverage digital opportunities, mitigate digital risks, and thereby redefine their presence in the digital landscape. Our Global Cloud Community and Global Delivery Services (GDS) are tremendous assets for EY, assisting our public sector clients with capabilities ranging from Accelerating Business Strategy to Modernisation & Migration services, Risk Cyber & Compliance, Cloud Native Engineering, Cloud Data & Analytics, and Innovation at speed.

1.3. Security and Compliance

- ▶ BPSS and SC-cleared consultants for sensitive government programmes.
- ▶ Alignment with GDPR, UK Government security principles, and sustainability commitments.

1.4. Accelerators and Tooling

Below is a selection of accelerators that help clients deliver on their Cloud and Application Migration and Modernisation programme imperatives:

- ▶ **EY Migration & Modernisation Toolkit:**
 - Multi-cloud orchestration support.
 - Kubernetes-based containerisation.
 - Automated remediation of legacy blockers.
- ▶ **EY Cloud Infrastructure Library (CIL):** Automates up to 80% of lifecycle tasks, including policy-as-code for governance.
- ▶ **Cloud Landing Zone Build:** End-to-end automation for enterprise-class landing zones.
- ▶ **Application and Data Modernisation:** Incorporates containerisation, CRM/ERP migration, robotic process automation, machine learning, IoT, and advanced data reconciliation frameworks.

EY Migration & Modernisation Toolkit – At its heart, EY Migration & Modernisation Toolkit is 3-Tier, API enabled, extensible, CSP agnostic, secure platform, engineered as an open-source stack that is quick to deploy as containers or VM's in a client's data centre or public cloud.

Cloud Migration and modernisation Toolkit has a three tier, API enabled, extensible, CSP agnostic architecture and can be deployed in any cloud or on-premises environment.

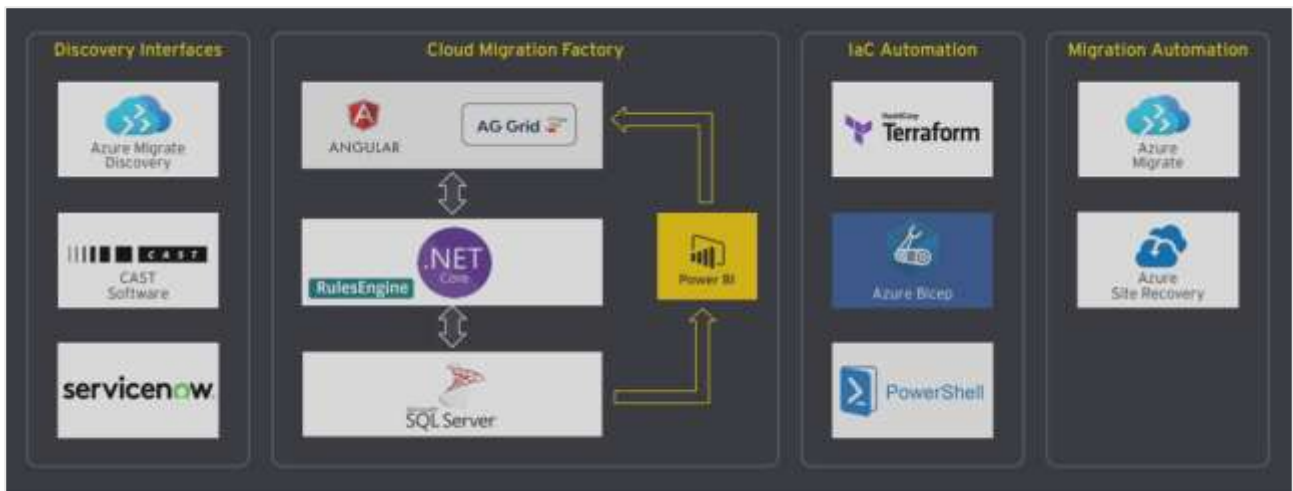


Figure 2 - EY Modernisation Toolkit sample approach

Key Points

- ▶ CMF interfaces with Azure Migrate Discovery, Service Now for Infrastructure discovery
- ▶ CMF gets software intelligence about application code using interface with CAST software
- ▶ Uses 3 tier Architecture – Angular for UI, .NET for App tier and SQL server for database
- ▶ AG Grid for Angular is used as DataGrid
- ▶ Microsoft JSON Rules engine is used for custom rules
- ▶ Cloud Automation is done by invoking Terraform, Azure Biceps, ARM and Powershell
- ▶ Migration has been automated with Azure Migrate and Azure Site Recovery

With our partnerships we can also deploy tools to automatically categorise applications targeted for modernisation and recommend a migration roadmap. This will include identifying cloud blockers, size remediation effort, recommend agnostic cloud services and track trends over time.

EY CIL – a centralised repository for all automated scripts based on industry standards, aiming to typically automate 60–70% of various stages of a customer's cloud adoption journey and cloud life cycle management. A great set of tooling and scripts to support application modernisation journeys.

Cloud Landing Zone Build – End-to-end automation scripts for Sandbox, MVP, and enterprise-class landing zones. Subscriptions and Management Groups, IAM, Vnet and Subnets, Network and NSGs, Logging and Monitoring, Firewalls and Load Balancers, DMZ, Billing, and Cost management. As per a CSP's reference architecture, augmented with EY's extensive global experiences.

Application and Data Modernisation – EY teams assist with updating legacy applications to support modern architectures, including rewriting code to take advantage of cloud capabilities.

- ▶ Application modernisation/innovation factory
- ▶ Container management/containerising applications as part of the move to cloud
- ▶ CRM/ERP on cloud
- ▶ Robotic process automation and machine learning and IOT
- ▶ Data Reconciliation framework for Data migration/ETL/Data and Analytics Testing

EY's approach for application modernisation services

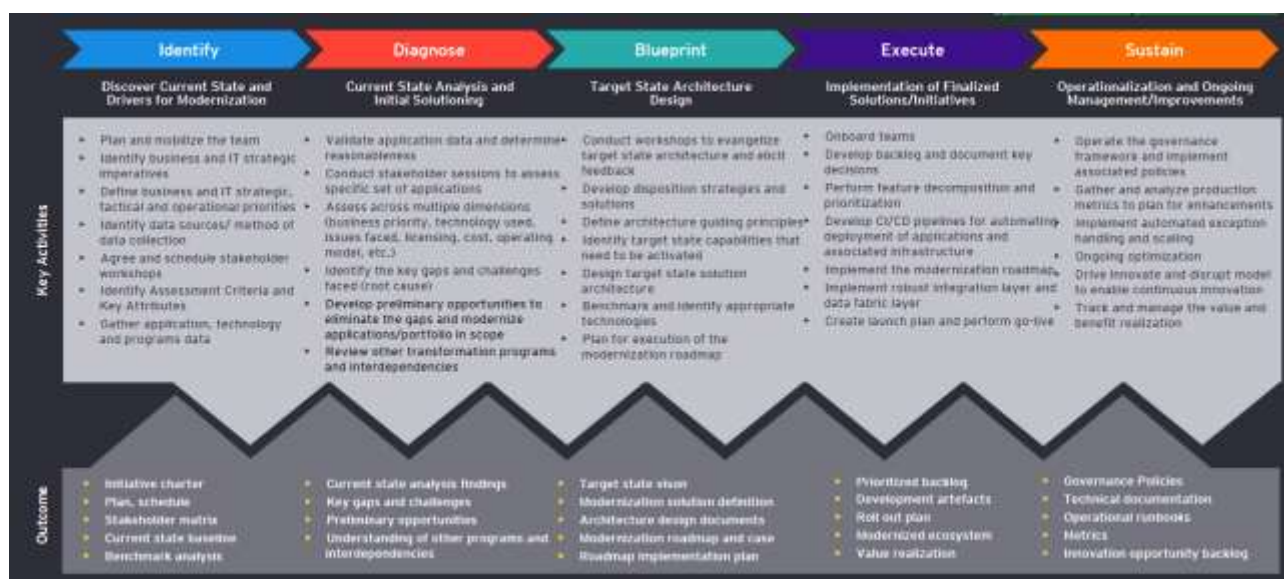


Figure 3 – EY's Approach to Application Modernisation

1.5. Pricing

This service is priced in accordance with the SFIA rate card provided and can be modelled using a range of commercial approaches e.g., time & materials, fixed price, etc. 'Ordering and Invoicing' and 'Termination' are to be undertaken in accordance with G-Cloud 15 contract terms unless varied by mutual agreement and detailed within a call-off contract.

2. Key contacts

For further information please get in touch via the email address below.



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