

# Azure GovCloud Services

## Strategic Implementation Framework for Microsoft Azure Adoption in the UK Public Sector

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### Executive Summary

The digital transformation of the United Kingdom's public sector has transitioned from an aspirational directive to an operational imperative, driven by the convergence of fiscal necessity, technological obsolescence, and the evolving expectations of the citizenry.

The implementation of Microsoft Azure cloud services within this sector represents more than a technological upgrade; it is a fundamental restructuring of how the state provisions, manages, and secures its critical infrastructure. This report provides an exhaustive implementation strategy and roadmap for this transition, grounded in the 2022–2025 Roadmap for Digital and Data, the updated Cloud First policy, and the specific commercial and technical frameworks established by the Crown Commercial Service (CCS) and the Central Digital and Data Office (CDDO).

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## The Evolution of the Cloud First Mandate

The UK Government's "Cloud First" policy, originally introduced in 2013, has matured significantly by 2025. Initially conceived as a procurement guidance to reduce data centre real estate, it has evolved into a comprehensive operational standard that underpins the government's ability to deliver agile, user-centred services. The policy explicitly mandates that central government departments and their arm's-length bodies (ALBs) must evaluate public cloud solutions as the primary option before considering hybrid or on-premises alternatives.

This mandate is no longer optional. As of 2025, major departments such as the Home Office have reported cloud adoption rates exceeding 60%, signaling that the cloud is now the norm rather than the exception for central government. However, the landscape remains fragmented. While central departments have accelerated, the "State of Digital Government Review" highlights that other sectors, particularly local authorities, policing, and the NHS, face significant hurdles due to entrenched legacy estates and complex funding models. The strategic imperative for 2025–2030 is to bridge this gap, moving

from "adopting cloud" to "optimising cloud" to drive value, efficiency, and innovation.

## The Roadmap for Digital and Data 2022–2025

The adoption of Azure is intrinsic to the delivery of the government's broader digital ambitions. The Roadmap for Digital and Data 2022 to 2025 establishes six cross-government missions, four of which are directly enabled by hyperscale cloud platforms like Azure:

Mission	Strategic Alignment with Azure
Mission One: Transformed Public Services	Azure's PaaS and Serverless capabilities allow for the rapid development and deployment of citizen-facing applications, moving away from monolithic legacy cycles.
Mission Three: Better Data	The consolidation of data into cloud-native platforms (e.g., Azure Data Lake, Synapse) is essential for breaking down departmental silos and powering decision-making with real-time analytics.
Mission Four: Efficient, Secure Technology	Replacing legacy infrastructure with evergreen cloud services reduces the "technical debt" and security vulnerabilities associated with unpatched on-premises hardware.
Mission Six: Unlocking Transformation	The cloud provides the foundational agility required to reform the system, allowing for the rapid scaling of services during crises (as seen during the COVID-19 pandemic).

The roadmap is backed by an £8 billion investment commitment in digital, data, and technology transformation, providing the financial vehicle necessary to execute this strategy.

## The Legacy IT Risk Assessment Framework

A critical driver for Azure migration is the unmanageable risk posed by legacy IT. The CDDO has established the Legacy IT Risk Assessment Framework, which categorises systems based on their technical health and criticality. "Red-rated" systems—those that

are obsolete, unsupported, or insecure—are prioritised for remediation. The strategy outlined in this report positions Microsoft Azure not just as a hosting destination, but as a risk remediation tool. By migrating these systems to Azure, departments can transfer the burden of infrastructure security and patching to the provider (Microsoft), thereby mitigating the operational risks identified by the CDDO.

## **Digital Sovereignty and the Geopolitical Landscape**

The implementation of a US-based hyperscale cloud within critical national infrastructure introduces complex questions regarding digital sovereignty. The reliance on a small concentration of foreign providers (Microsoft, AWS, Google) has been flagged as a potential risk. However, the government's guidance from the Department for Science, Innovation and Technology (DSIT) acknowledges that the operational benefits—cost-effectiveness, sustainability, and advanced features—often outweigh the risks of concentration, provided that data residency and sovereignty controls are robust.

Microsoft's response, the Microsoft Sovereign Cloud, provides the necessary architectural assurance. Through capabilities such as the Sovereign Landing Zone (SLZ) and Data Guardian, the public sector can enforce strict data residency within UK borders (UK South and UK West regions) and maintain control over encryption keys via External Key Management. This strategy report assumes the deployment of these sovereign controls as a baseline requirement for all critical and sensitive workloads.

## **Commercial and Procurement Frameworks**

The transition from Capital Expenditure (CapEx) based on-premises infrastructure to Operational Expenditure (OpEx) based cloud consumption requires a sophisticated commercial approach. The UK government has established specific frameworks to facilitate this, ensuring compliance, value for money, and streamlined procurement.

## **The Strategic Partnership Arrangement (SPA24)**

The cornerstone of Microsoft procurement for the UK public sector is the Strategic Partnership Arrangement 2024 (SPA24). Negotiated by the Crown Commercial Service (CCS), this five-year Memorandum of Understanding (MoU) replaces the previous

Digital Transformation Arrangement (DTA21) and is effective from November 1, 2024.

Strategic Analysis of SPA24:

- **Universal Eligibility:** Unlike previous arrangements that often favoured large central departments, SPA24 is accessible to all eligible public sector organisations, including local government, the NHS, and emergency services. This democratisation of pricing is crucial for levelling the playing field across the disparate sectors of government.
- **Transformation vs. Licensing:** The agreement is explicitly framed around digital transformation rather than mere software licensing. It is designed to align with the One Government Cloud Strategy, providing "enhanced value" not just for Office 365 but for the entire Azure portfolio, enabling organisations to leverage the full stack of cloud services for innovation.
- **Aggregation of Demand:** The SPA24 allows the public sector to act as a single customer, leveraging the immense scale of UK government spending to secure preferential commercial terms. Organisations are encouraged to participate in CCS "aggregated competitions" to further drive down costs on commodity cloud services.

## **G-Cloud 14 and the Digital Marketplace**

While SPA24 covers the overarching relationship with Microsoft, the G-Cloud 14 framework remains the primary vehicle for procuring specific cloud hosting services, professional services, and support.

- **Lot Structure:**
  - **Lot 1 (Cloud Hosting):** Direct procurement of Azure consumption.
  - **Lot 3 (Cloud Support):** Essential for procuring the expertise required to migrate. This lot connects public sector buyers with Microsoft partners who specialise in the Cloud Adoption Framework (CAF) and legacy modernisation.
  - **Lot 4 (Major Projects):** A critical development in G-Cloud 14 is the "further competition" lot for large-scale cloud delivery. This allows for longer contracts (up to 3 years plus extension), providing the stability needed for complex, multi-year migration programmes that were previously difficult to contract under the shorter terms of earlier G-Cloud iterations.

## Procurement Strategy Recommendation:

Organisations should utilise SPA24 for the underlying Microsoft Enterprise Agreement (EA) to secure the best baseline pricing for Azure consumption. Concurrently, G-Cloud 14 Lot 3 and Lot 4 should be used to procure the implementation partners and managed service providers (MSPs) necessary to execute the migration, ensuring that the skills gap is bridged by industry experts.

## Economic Appraisal: The Green Book and FinOps

The shift to Azure fundamentally changes the economic profile of IT spending. The HM Treasury Green Book provides the mandatory guidance for appraising these investments. A robust business case for Azure adoption must transcend simple hardware-for-software cost comparisons.

Applying the Five Case Model to Azure:

1. Strategic Case: Must demonstrate alignment with the Roadmap for Digital and Data and the remediation of CDDO-identified legacy risks.
2. Economic Case: Must account for "Whole Life Costs," including the avoidance of future capital refreshes, the reduction in energy consumption (contributing to Net Zero goals), and the monetisation of agility (e.g., faster time-to-market for policy interventions).
3. Financial Case: This is where FinOps becomes critical. The variable nature of cloud billing ("pay-as-you-go") introduces the risk of "bill shock." The business case must include provisions for a FinOps function—a team responsible for continuous cost optimisation, rightsizing, and reservation management—to ensure that the financial benefits are realised.
4. Commercial Case: Utilisation of SPA24 and G-Cloud 14 to demonstrate a viable route to market.
5. Management Case: Evidence of a structured delivery plan, typically following Agile methodologies and the Service Standard.

## Technical Architecture and Security Standards

The technical foundation of the Azure adoption strategy is the Landing Zone. This is the



pre-configured environment into which workloads are migrated, ensuring that every application inherits a baseline of security, governance, and networking connectivity.

## The Azure Landing Zone (ALZ) for UK Government

The Microsoft Cloud Adoption Framework (CAF) provides a reference architecture for Landing Zones, which must be tailored to the specific compliance needs of the UK public sector.

Architectural Components:

- **Management Group Hierarchy:** A tiered structure that separates "Platform" management (Identity, Connectivity, Management) from "Landing Zones" (Application subscriptions). This hierarchy allows for the efficient inheritance of Azure Policies.
- **Identity Subscription:** dedicated to hosting Microsoft Entra ID (formerly Azure AD) domain controllers or connectors, ensuring a single source of truth for identity that integrates with on-premises Active Directory via Azure AD Connect.
- **Connectivity Subscription:** This acts as the "Hub" in a Hub-and-Spoke topology. It hosts the Azure ExpressRoute circuits connecting to the Public Services Network (PSN) or Health and Social Care Network (HSCN), as well as the Azure Firewall and VPN Gateways.
- **Management Subscription:** Centralised logging and monitoring using Azure Monitor and Microsoft Sentinel, ensuring that security operations have a unified view of the entire estate.

## Compliance with NCSC 14 Cloud Security Principles

The National Cyber Security Centre (NCSC) has established 14 principles for secure cloud adoption. The Azure Landing Zone must be designed to evidence compliance with these principles explicitly.

NCSC Principle	Azure Implementation Implementation Detail
1. Data in Transit	Mandate TLS 1.2+ for all public endpoints. Use MACsec encryption on ExpressRoute Direct for high-security hybrid connectivity.

2. Asset Protection	Implementation of Customer Managed Keys (CMK) in Azure Key Vault allows the department to retain control over the encryption of data at rest, satisfying sovereignty requirements.
3. Separation	Strict usage of Azure Subscriptions as trust boundaries. Use of Azure Policy to prevent cross-tenant peering unless explicitly authorised.
4. Governance	Automated enforcement of governance via Azure Policy and Blueprints. For example, policies that deny the creation of resources in non-UK regions.
7. Secure Development	Integration of security scanning (SAST/DAST) into Azure DevOps pipelines, ensuring a "Secure by Design" approach mandated by the CDDO.
10. Identity	Enforcing Zero Trust via Conditional Access policies in Entra ID. MFA must be mandatory for all administrative access. Use of Privileged Identity Management (PIM) for Just-In-Time access.

## Data Residency and Sovereignty

For the UK public sector, data residency is a paramount concern post-Brexit. While Microsoft has established an EU Data Boundary, UK strategy must focus on UK-specific residency.

- **Region Selection:** All production data for UK public services must be pinned to UK South (London) and UK West (Cardiff) regions. This is supported by the UK OFFICIAL/NHS blueprint samples in Azure, which include policy definitions to restrict deployment to these regions.
- **Sovereign Controls:** For "OFFICIAL-SENSITIVE" data or critical national infrastructure, the Microsoft Cloud for Sovereignty offering should be utilised. This includes the Sovereign Landing Zone (SLZ), which provides an orchestrated policy set to enforce residency and sovereignty requirements.
- **Data Guardian:** This capability provides transparency logs for any Microsoft engineer access, ensuring that the department can audit who accessed their environment and why, addressing the "black box" operational concerns often

cited by sovereignty advocates.

## Hybrid Connectivity and Crown Hosting

Not all workloads can move to the public cloud immediately. Some may be bound by latency, legacy hardware (e.g., mainframes), or higher security classifications (SECRET).

- Crown Hosting: For these workloads, Crown Hosting data centres act as the strategic on-premises location.
- ExpressRoute: A robust ExpressRoute connection between Crown Hosting and Azure enables a high-bandwidth, low-latency hybrid cloud. This allows legacy applications in Crown Hosting to leverage modern data analytics or front-end services in Azure, bridging the gap between old and new.

## Modernisation Strategy and Migration Methodology

The CDDO's "Cloud Guide for the Public Sector" emphasises that migration is not a one-size-fits-all process. A successful roadmap employs the "6 Rs" methodology, prioritising modernisation over simple rehosting to avoid carrying technical debt into the cloud.

### The Migration Factory Model

To achieve scale, departments should adopt a "Migration Factory" approach—a standardised, repeatable process for assessing and moving workloads.

#### Phase 1: Automated Discovery and Assessment

Before any migration, the estate must be fully mapped. Tools like Azure Migrate should be deployed to scan the on-premises environment, identifying dependencies, server utilisation, and compatibility issues. This data is cross-referenced with the Legacy IT Risk Assessment to identify priority targets.

#### Phase 2: Rationalisation (Retire/Repurchase)

The most cost-effective migration is the one that doesn't happen. The assessment phase should identify duplicate applications (e.g., multiple HR systems) that can be retired or replaced with SaaS alternatives (Repurchase), such as moving Exchange to Microsoft 365.

### Phase 3: Migration Waves

- Wave 1 (Rehost/Lift & Shift): For "red-rated" legacy systems where immediate risk mitigation is required, a lift-and-shift to Azure VMware Solution (AVS) or IaaS Virtual Machines is appropriate. This moves the workload to secure infrastructure without requiring code changes, buying time for future modernisation.
- Wave 2 (Replatform): Moving databases to Azure SQL Database (PaaS) or web apps to Azure App Service. This removes the burden of OS management and patching, aligning with Mission Four (Efficient Technology).
- Wave 3 (Refactor/Rearchitect): Breaking down monolithic applications into microservices running on Azure Kubernetes Service (AKS) or Azure Functions. This is the target state for core business applications, enabling the agility and scalability required by the Roadmap for Digital and Data.

## Data Migration and Modernisation

The DVLA case study demonstrates that data migration is often more complex than application migration. Large volumes of unstructured data (files, images, scans) must be moved from legacy storage to cloud-native storage.

- Strategy: Utilise Azure Data Box for offline transfer of petabyte-scale data or Azure File Migration Program for online transfers.
- Modernisation: Once in the cloud, data should not sit idle. It should be ingested into Azure Synapse Analytics or Microsoft Fabric to create a unified data estate, enabling the cross-departmental data sharing envisioned in Mission Three.

## Addressing the "Red-Rated" Legacy Estate

The CDDO framework identifies legacy IT as a "national security issue" due to the risk of cyberattack and operational failure.

- Containment Strategy: For legacy systems that cannot be modernised or retired (e.g., essential mainframes), the strategy is "containment." These systems

should be wrapped in strict security controls—such as placing them behind an Azure Application Gateway with Web Application Firewall (WAF) or isolating them in a specific Virtual Network (VNet) with no internet access—to mitigate the risk while they remain operational.

## **Operational Excellence: The Cloud Centre of Excellence (CCoE)**

The transition to Azure is not just technical; it is organisational. The traditional "gatekeeper" model of IT operations is incompatible with the velocity of the cloud. The establishment of a Cloud Centre of Excellence (CCoE) is the proven operating model for public sector success, as evidenced by NHS Digital and HMRC.

### **Structure and Function of the CCoE**

The CCoE is a multi-disciplinary team comprising architects, security specialists, operations engineers, and finance representatives. Its role is to enable rather than block delivery.

- **Brokerage:** The CCoE acts as an internal service provider, vending "compliant-by-default" Azure subscriptions to delivery teams. These subscriptions come pre-wired with networking, security policies, and identity, allowing teams to start building immediately.
- **Guardrails over Gates:** Instead of manual Change Advisory Boards (CABs), the CCoE implements automated guardrails using Azure Policy. If a deployment violates a policy (e.g., trying to deploy to a non-UK region), the deployment is blocked automatically by the platform, removing the need for manual review.
- **Knowledge Management:** The CCoE is responsible for maintaining the library of "Blueprints" and Infrastructure-as-Code (IaC) templates (e.g., Terraform or Bicep modules). This prevents the duplication of effort described in the Scottish Government's cloud strategy, where multiple teams solve the same problem in isolation.

### **FinOps: Managing the Public Purse**

In a "pay-as-you-go" model, financial governance is paramount. The CCoE must include

a FinOps function responsible for:

- **Visibility:** Implementing Azure Cost Management to provide real-time dashboards of spend by department, service, and application.
- **Accountability:** Implementing a "showback" or "chargeback" model where costs are attributed to the specific business units consuming the resources. This drives responsible consumption behaviour.
- **Optimisation:** Regular "cost clinics" to review spend and identify opportunities for savings, such as purchasing Azure Savings Plans or Reserved Instances for stable workloads, which can reduce compute costs by up to 72%.

## From ITIL to DevOps and SRE

The operational model must shift from ITIL-based "Service Operation" to Site Reliability Engineering (SRE).

- **Automation:** Manual patching and server management should be replaced by automated pipelines and immutable infrastructure.
- **Observability:** Moving beyond simple "up/down" monitoring to deep observability using Azure Monitor and Application Insights, allowing for proactive detection of performance degradation before it impacts the citizen user experience.

## Skills, Capability, and Cultural Transformation

The "Digital Skills at Scale" mission (Mission Five) acknowledges a severe skills shortage within the civil service. The reliance on external contractors for core cloud capabilities is a strategic risk that must be addressed through a comprehensive skilling strategy.

## The Government Digital and Data Profession Capability Framework

The strategy for building internal capability must be aligned with the Government Digital and Data Profession Capability Framework. This framework defines the specific roles (e.g., DevOps Engineer, Cloud Platform Architect) and the skills required at each level

(Awareness, Working, Practitioner, Expert).

- Gap Analysis: Departments must conduct a skills audit against this framework to identify critical gaps in their current workforce.
- Career Pathways: Clear progression paths must be established for technical staff to retain talent in a competitive market.

## **Comprehensive Learning and Certification**

- Microsoft Enterprise Skills Initiative (ESI): Public sector organisations leveraging the SPA24 agreement often have access to the ESI, which provides free or subsidised technical training and certification exams.
- Civil Service Learning: Azure learning paths should be integrated into the standard development plans for all IT staff.
- Certification Targets: A tiered certification strategy should be enforced:
  - Fundamentals (AZ-900): Mandatory for all IT, procurement, and leadership staff involved in digital programs.
  - Associate (AZ-104/AZ-204): Targeted at operational engineers and developers.
  - Expert (AZ-305): Required for Cloud Architects within the CCoE.

## **Cultural Change: Psychological Safety and Agility**

Moving to the cloud requires a cultural shift away from "fear of failure."

- Psychological Safety: Leadership must foster an environment where experimentation is encouraged. The concept of "failing fast" in a development environment (Sandbox) is a learning opportunity, not a performance management issue.
- Cross-Functional Teams: The CCoE model breaks down silos between "Development" and "Operations" (DevOps) and "Security" (DevSecOps), integrating these disciplines into a single delivery flow.

## **Sector-Specific Implementation Nuances**

While the core principles of Azure adoption are universal, the operational reality varies

significantly across different parts of the public sector.

## **Healthcare: The NHS Context**

For the NHS, data sensitivity and interoperability are paramount.

- **NHS Secure Boundary:** Azure implementations must sit behind the NHS Secure Boundary protections. Connectivity to the Health and Social Care Network (HSCN) is a mandatory requirement for accessing clinical systems (e.g., Spine).
- **Interoperability:** The strategy must prioritise the use of Azure Health Data Services, specifically the FHIR service, to ensure that new cloud-native applications can exchange patient data with legacy Electronic Patient Records (EPRs).
- **Resilience:** Given the life-critical nature of these systems, the Landing Zone architecture must enforce Multi-Region availability (e.g., pairing UK South with UK West) for disaster recovery.

## **Policing: The Metropolitan Police Service (MPS) Experience**

The Met Police case study highlights the challenge of massive data volumes, particularly digital evidence (Body Worn Video).

- **Storage Economics:** The adoption of Azure Blob Storage with tiered access (Hot, Cool, Archive) is essential for managing the petabytes of video evidence cost-effectively. "Archive" tiers offer significant savings for evidence that must be retained for legal reasons but is rarely accessed.
- **Mobility:** The "Digital Policing" strategy relies on delivering intelligence to officers on the beat. Azure Virtual Desktop (AVD) and Microsoft Intune are critical for securing End User Devices (EUDs) and ensuring that sensitive data is not stored locally on tablets or phones.

## **Devolved Administrations: The Scottish Approach**

The Scottish Government has adopted a centralised brokerage model through its Cloud Platform service.



- **Centralised Brokerage:** Unlike the fragmented adoption in English local government, Scotland offers a "Cloud Platform" that provides a pre-accredited, managed entry point to Azure. This reduces the burden of procurement and security design for individual public bodies, serving as a model for efficient adoption.
- **Cloud Community:** The Scottish Government has established a formal "Cloud Community" to share best practices and architectural patterns, reducing duplication of effort across the public sector.

## Local Government and Smart Cities

For local authorities, the driver is often cost reduction and "Smart City" innovation.

- **Shared Services:** The Azure tenant model allows multiple local authorities to share a single tenant or Landing Zone for shared services (e.g., a regional waste management platform), significantly reducing overheads.
- **IoT and Data:** Azure IoT Hub provides the platform for ingesting data from smart city sensors (traffic, air quality), enabling data-driven policy making at the local level.

## Strategic Roadmap (2025–2027)

The following roadmap outlines the phased implementation plan for a typical public sector organisation to reach cloud maturity.

### Phase 1: Foundation and Governance (Months 1-3)

- **Activity:** Establish the Cloud Centre of Excellence (CCoE) and define the FinOps strategy.
- **Technical:** Deploy the Azure Landing Zone using the UK Official blueprint. Establish ExpressRoute connectivity to on-premises/Crown Hosting/HSCN.
- **Commercial:** Sign the SPA24 agreement and onboard to Azure Cost Management.
- **Outcome:** A secure, compliant, and connected platform ready to host workloads. "Red-rated" legacy risks are identified and prioritised.

## Phase 2: Pilot and Skills (Months 4-6)

- Activity: Launch the "Cloud Skills Academy" using ESI resources. Certify the core CCoE team.
- Technical: Migrate "Wave 1" pilot workloads (low risk/impact). Test the migration pipelines and governance policies. Validate the Backup and Disaster Recovery (DR) capabilities.
- Outcome: Validated operational model. Core team upskilled. First production workloads live in Azure.

## Phase 3: The Migration Factory (Months 7-18)

- Activity: Execute the "Migration Factory."
  - Rehost critical legacy apps to Azure VMware Solution (AVS) to mitigate immediate hardware risks.
  - Replatform databases to Azure SQL and web apps to App Service.
- Technical: Implement Microsoft Sentinel for unified security monitoring. Integrate with GOV.UK One Login for citizen services.
- Outcome: Significant reduction in on-premises footprint. Retirement of legacy hardware. Achievement of "Mission Four" targets.

## Phase 4: Innovation and Optimisation (Months 19-24+)

- Activity: Focus shifts from migration to innovation.
- Technical: Deploy AI/ML capabilities (Azure OpenAI, Copilot) on the now-modernised data estate. Refactor core apps to Microservices (AKS) for agility.
- Commercial: FinOps maturity—implementing aggressive cost optimisation via Savings Plans and right-sizing.
- Outcome: A data-driven, agile organisation capable of continuous improvement and rapid service delivery.

## Conclusion

The implementation of Microsoft Azure across the UK public sector is a multi-dimensional challenge that extends far beyond technical migration. It requires a

synthesis of policy adherence, commercial acumen, and organisational transformation. By leveraging the SPA24 framework to maximise value, adopting the UK Official Landing Zone to ensure security and sovereignty, and establishing a Cloud Centre of Excellence to drive skills and governance, the public sector can successfully navigate this transition.

The roadmap provided herein moves the sector away from the legacy risks identified by the CDDO and towards the future vision of the Digital Roadmap: a government that is efficient, secure, and capable of unlocking the full potential of digital transformation for the benefit of its citizens. The path is clear: "Cloud First" must now become "Smart Cloud," where sovereignty is assured, costs are managed, and innovation is continuous.