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Cloud Strategy and Transformation for Policing

GCloud Service Description Document

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Reference: PA RM1557.15

Version: 1.0

Contents

Cloud Strategy and Transformation for Policing	4
1.1 Short Service Description	4
1.2 Key Service Features	4
1.3 Key Service Benefits	4
1.4 Service Definition	5
1.4.1 Cloud strategy development approach	5
1.5 Why PA Consulting Group (PA)? A trusted partner for cloud, AI, and digital technologies	7
1.5.1 Why PA for cloud, data and AI	7
1.5.2 Cloud capability (assess, design, build, assure, run)	7
1.5.3 AI, ML and data (from strategy to scale)	8
1.5.3.1 Quantum and emerging technologies	8
1.5.4 Cyber security and digital trust	8
1.5.5 What PA will bring	9
1.5.6 PA is fully equipped to manage any challenges or requirements you may present	9
1.6 A genuine commitment to Social Value	10
1.7 Security clearance	11
1.8 Next steps	11



Cloud Strategy and Transformation for Policing

1.1 Short Service Description

PA's Cloud Strategy for Policing helps Law Enforcement to navigate the complexities of Home Office / Policing capabilities, Programmes and Local Forces cloud usage through deep sector insight coupled with extensive Cloud expertise, driving strategic coherence across a complex multi-stakeholder landscape to improve value for money for HMG and citizens.

1.2 Key Service Features

1. Current application and infrastructure landscape and initial roadmap assessments
2. Assess Policing's cloud maturity and readiness for adoption
3. Knowledge of key programmes: LEDS, LECP, CDMH, PMAS
4. Engagement with stakeholders: HO, Forces, NPCC, PDS, HMCTS, NCA
5. Understanding of key systems: NLED, PNC, PND, RMS, C&C
6. Leverage PA's unbiased partnerships with Google, Microsoft and AWS
7. Utilise insights from previous cloud adoption experiences across HMG
8. Analyse the commercial implications with pre-built cost models
9. Understand complexities of data, security, legal and operational challenges
10. Deliver pragmatic transformation designed for HMG and policing requirements

1.3 Key Service Benefits

1. Rapidly define an achievable cloud strategy for policing
2. Practical, clear steps to successful cloud adoption / transformation
3. Insights based on experience to avoid common pitfalls
4. Up-to-date cloud market expertise and knowledge
5. Access to market leaders based on PA's partner status
6. Commercially aware recommendations for cost effective adoption
7. Considers operating model and wider implications, not simply technology
8. Considers full IT context, assessing existing assets and lifecycles
9. Cloud security as part of up-front strategic considerations
10. Strategy and transformation advice driven by policing objectives

1.4 Service Definition

The deployment of Cloud technologies is a key component of the Home Office and Policing's technology strategy at Force, Programme and National levels. It is critical that across this landscape, Cloud strategy and any subsequent transformation is grounded in a long-term view that ensures Policing and HMG is making conscious, cost efficient and effective strategic decisions.

Our Policing experts understand the complexities of the policing landscape and we are involved in programmes across Policing and policing partners who face similar challenges.

Our expert technical advice will help HMG to consider and deliver cloud usage transformation that is secure, affordable, flexible and supports operational requirements.

Other considerations include: IaaS, PaaS and SaaS, non-functional requirements, security and operational impact, legacy technology, legislative and data constraints, regulatory constraints, business case and governance.

Few areas of policing are fully able to utilise cloud to best effect or to a position where they can be 100% on cloud. For this reason, a hybrid approach – the hybrid cloud – may also be required for the foreseeable future. The relative proportion of systems on the different cloud models will change over time; as applications are reengineered and technology improves there will be an increase in the number of systems running on cloud.

We offer insights that will help HMG to drive better value for money and more effective, long term technology solutions.

We offer transformation that considers people, processes, operational impact, policy, funding and governance to deliver successful public sector change.

1.4.1 Cloud strategy development approach

Our methodology entails understanding the commercial cloud service options that are available to meet business requirements, then assessing these for cost and performance benefits whilst at the same time taking care to understand and agree the levels of applicable risk (e.g. data regulatory) that might apply to each system and geography.

Built into our approach is an ongoing consultation with key technical and business stakeholders to ensure that the recommended approach is realistically viable within the operating environment of our clients.

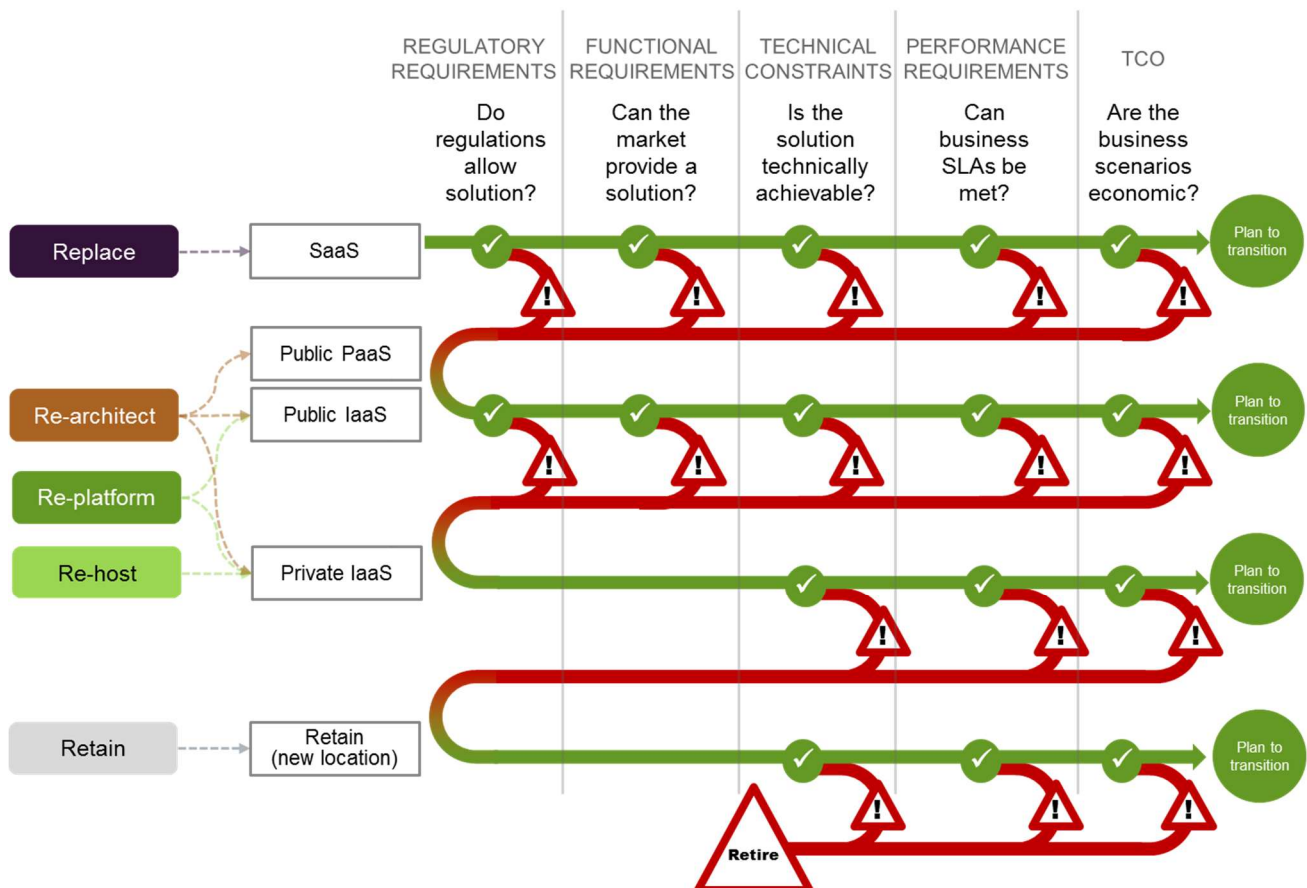
Central to the PA approach is a structured assessment of each application against the constraints that exist to inhibit adoption of the highest, and potentially most beneficial, level of cloud abstraction (Software as a Service). The following table summarises the options:

Migration approach	Description	Relative complexity
Replace	Replace the current application and associated infrastructure with a SaaS-based alternative. Business change impacts can be significant in some instances (e.g. a move to SaaS-based HR).	High - Medium
Re-architect	Re-architecting the application to optimise for cloud hosting, using IaaS and/or PaaS. Leverage cloud capabilities such as containers and micro-services, auto scaling, fault tolerance and potentially emerging PaaS offerings such as serverless compute.	Very high
Re-platform	Standardise applications to a commodity IaaS platform during migration to address required upgrades,	High - Medium

Migration approach	Description	Relative complexity
	compliance, regulatory or simplicity drivers. Use the opportunity to optimise for cloud where possible. This approach is suitable for moves to public or private IaaS and ensures alignment to hosting provider standards and hence coverage by standard SLAs.	
Re-host	Take the 'lift and shift' approach to quickly move your current virtualised infrastructure to private IaaS. May be incompatible with cloud provider service catalogue and hence SLA's may not be as favourable, or even applicable.	Medium
Retain	Do nothing, simply move your current physical or virtualised infrastructure (and associated applications) to a new hosting facility in a 'traditional' managed hosting arrangement.	Medium - Low
Retire	Where there is no ongoing strategic or critical need for the application, remove it from the estate to simplify and avoid build-up of technical debt.	Low

The constraints that should be considered will be a mixture of commercial, technical, regulatory and cost. Their impact will vary according to business function, operating geography and regulatory factors. The following figure demonstrates how the options outlined in the table above can be assessed against these constraints as part of a Cloud Strategy development.

Example cloud decision tree



1.5 Why PA Consulting Group (PA)?

A trusted partner for cloud, AI, and digital technologies

PA Consulting Group (PA) is a leading technology and innovation consultancy and one of the UK government's most trusted advisors, combining strategy, delivery assurance and deep engineering to turn complex ambition into assured outcomes. We bring end-to-end capability across cloud architecture, data and AI, cyber, and advanced technology R&D, backed by a track record of scaling innovation in the public and private sectors.

Our UK work is anchored by secure, standards-led delivery. PA maintains ISO/IEC 27001 certification across global operations, demonstrating disciplined information security and operational control, and applies UK government good practice (GDS, NCSC CAF) across cloud and digital programmes.

We combine consultancy with real engineering. At our Global Innovation & Technology Centre (Cambridge), 300+ scientists, designers and engineers operate extensive labs and studios to prototype and industrialise solutions, bridging physical and digital from concept to production.

1.5.1 Why PA for cloud, data and AI

- **Hyperscaler alliances without vendor lock-in.** PA is Premier Tier with **Google Cloud** (13+ years; 150+ certifications; specialisations in infrastructure, data analytics, app dev and security) and holds deep **AWS** and **Microsoft** credentials, accelerating secure data foundations and generative AI at scale while keeping advice independent and outcome-led.
- **Responsible AI you can trust.** Our Responsible AI framework, governance toolkits, and risk policy make AI adoption transparent, auditable, and compliant, embedding lifecycle controls, model documentation, and human-in-the-loop safeguards aligned to evolving regulation.
- **Impact beyond pilots.** We help organisations become *intelligent enterprises*, using data and agentic AI to create and protect value, with pragmatic roadmaps from use-case selection to scaled operations.
- **Proof through delivery.** Our client stories span enterprise data platforms, IoT and analytics (e.g., Rentokil Initial), and product innovation at scale (e.g., Unilever) where PA has put data and AI at the heart of continuous, market-leading improvement.

1.5.2 Cloud capability (assess, design, build, assure, run)

PA applies an assured cloud delivery approach to complex government and regulated environments, blending client-side delivery assurance, multi-cloud architecture, and resilient operations:

- **Strategy & readiness.** Maturity assessments, target operating models for hybrid/multi-cloud, and cost/benefit modelling; proportionate GDS compliance and ISO 27001 controls embedded upfront.
- **Design & architecture.** Secure, well-architected patterns across Azure, AWS, and Google Cloud; data platforms, identity and access, and cross-domain solutions for sensitive estates.
- **Build & deploy.** Cloud-native engineering, DevSecOps (CALMR), CI/CD, infrastructure-as-code; automated testing and quality assurance to accelerate safe release.
- **Migration & modernisation.** Legacy transformation, platform reviews, and workload migration tuned to resilience and cost; pragmatic FinOps to keep spend predictable and efficient.
- **Operate & optimise.** Observability, incident management, performance tuning, backup/restore, and change management, maintaining business continuity and reducing total cost.

- **Client-side delivery assurance.** Forward-looking, risk-based assurance that keeps complex programmes on track, covering governance, architecture, testing, migration, service readiness and cutover. See our *IT Delivery Assurance* service.

1.5.3 AI, ML and data (from strategy to scale)

- **Strategy & governance.** AI blueprints, operating models, and policy; enterprise data governance; regulatory readiness; centre-of-excellence setup and change adoption.
- **Engineering & MLOps.** Data platforms on Azure/AWS/GCP, pipelines and feature stores; robust ML lifecycle with monitoring, drift detection and auditability.
- **Generative & agentic AI.** Secure integration of LLMs (including Copilot) into workflows for measurable productivity and quality gains, using guardrails, system cards and ROI framing.
- **Responsible AI.** Lifecycle controls and assurance tooling to manage bias, security and transparency.

1.5.3.1 Quantum and emerging technologies

PA's applied physics and quantum engineering teams help clients unlock near-term value, combining quantum techniques with classical systems for decision support, advanced sensing and secure communications:

- **Decision support & optimisation.** Hybrid quantum/classical algorithms to accelerate complex planning, routing and resource allocation where speed and quality of decisions matter.
- **Quantum sensing & RF.** Novel quantum radio and Rydberg-based sensing to enhance spectrum use, detection sensitivity and resilience in contested environments.
- **Commercialisation insight.** Advisory at the “whole-stack” level, hardware, supply chain, interfaces, and ethics, to move from lab to market within national strategies.

These capabilities are industrialised at our Cambridge centre, turning concepts into robust prototypes and pre-production systems across sectors like defence, energy and transport.

1.5.4 Cyber security and digital trust

Digital trust is central to PA's approach. We design security into architecture, operations and culture, aligning to NCSC CAF and GovAssure, and delivering testing, red-team, SOC design and OT/IoT security:

- **Transformation & architecture.** Secure-by-design patterns, cloud security, identity, and cross-domain data protection (including NCSC-approved Oakdoor data diode products).
- **Assurance & regulation.** CAF/GovAssure alignment and pragmatic remediation plans for government organisations.
- **Testing & resilience.** CREST-aligned penetration testing, red-teaming, incident readiness, and operational resilience.

1.5.5 What PA will bring

Ideation & Strategy

- Cloud strategy and advisory services
- Cloud readiness assessments
- Cost/benefit and ROI modelling
- Security and compliance by design.
- AI/ML and data strategy (blueprints, operating model, governance) with Responsible AI policy and guardrails.
- Quantum opportunity framing and whole-stack commercialisation roadmaps.

Design & Architecture

- Bespoke enterprise and cloud architectures
- Integration with existing IT infrastructures
- Hybrid/multi-cloud design
- Continuity and disaster recovery
- Data platforms and MLOps patterns
- Security, privacy and resilience embedded by design in technical designs
- User-centred-design
- Secure cross-domain solutions and high-side/low-side integration where required.

Development & Deployment

- Cloud-native engineering
- Containerisation, microservices and serverless

- DevSecOps (CALMR) with CI/CD and automated testing
- Generative AI and Copilot enablement with measurable productivity outcomes and run-controls.

Implementation & Migration

- Data migration and legacy modernisation
- Vendor selection and management
- Infrastructure-as-code with progressive, low-risk cutover.

Operations & Management

- Observability, incident management, SIEM/SOC design
- Performance optimisation and cost management (FinOps)
- Backup/restore
- User training and change adoption.

Innovation & Scaling

- Scalable cloud infrastructure to support growth
- AI/ML implementation and scaling
- IoT integration
- Ongoing innovation sprints and R&D, supported by our Cambridge engineering labs for rapid prototyping and pre-production.

1.5.6 PA is fully equipped to manage any challenges or requirements you may present

Across strategy, design, build and run, PA blends independent advice with hands-on engineering, operating to ISO 27001 and UK government standards, and backed by hyperscaler partnership depth. Whether the brief is modernising a sensitive cloud estate, industrialising AI responsibly, or de-risking a quantum-adjacent programme, we bring the multidisciplinary team to get from idea to reality, safely, quickly, and at scale.

1.6 A genuine commitment to Social Value

At PA, we believe in the power of ingenuity to create a positive human future. Central to this ambition is our commitment to developing high-quality opportunities that enable individuals to acquire leading-edge skills, all within an environment that supports personal wellbeing and growth. We invest in our people through comprehensive training and development, ensuring they are fully prepared to tackle our clients' most complex challenges and advance their own careers.

We recognise that diversity drives innovation. Therefore, our recruitment practices are inclusive, welcoming individuals from all backgrounds. Every member of our team is empowered to reach their full potential through inclusive policies, processes, and a culture that is continuously improved using robust data.

We are passionate about creating genuine opportunities for those facing significant barriers to employment. Since 2023, our Digital Apprenticeship Programme has offered a Digital and Technology Solutions Degree through the University of Roehampton or Northumbria University. Our apprentices typically include first-generation professionals, college leavers, and individuals from ethnic minority backgrounds, many living in deprived areas. Additionally, we offer summer internships for undergraduates entering their final year, hosted at both our central London office and the Global Innovation and Technology Centre in Cambridge.

Economic responsibility is integral to our purpose. PA is accredited as a Living Wage employer, and where relevant, we ensure that our suppliers and subcontractors are paid at least the minimum living wage. We are also a signatory to the Prompt Payment Code, demonstrating our commitment to fair and responsible payments to suppliers.

Our carbon reduction targets have been validated by the Science Based Targets initiative (SBTi). We have a published carbon reduction plan and are committed to achieving carbon net zero by 2040, in alignment with PPN 06/21 criteria for UK public sector contracts exceeding £5 million. In 2024, we achieved a silver EcoVadis rating, reflecting our ongoing progress in sustainability.

We are dedicated to delivering targeted social value and will collaborate with you to determine the most effective approach for you, ensuring our efforts have the greatest possible impact.

1.7 Security clearance

PA are fully compliant with industry best practices for information security, which includes compliance with the UK MOD Industry Personnel Security Assurance (IPSA) standard, against which we are independently audited every three years. PA also has multiple sites with FSC (previously List X) where our dedicated in-house Security Vetting team are based. This allows PA to achieve security vetting of its employees in a time effective manner ensuring the correct processes are always followed (In accordance with the Security Policy Framework/GS007). As a matter of standard process, PA puts all its eligible employees through the Baseline Personnel Security Standard (BPSS), set out by the Cabinet Office. Those employees working on, or planning to work on, government projects are automatically put forward for SC clearance which are processed via UK-SV (formally the Defence Business Services – National Security Vetting). PA also process DV vetting through the UK-SV and other agencies, these are generally client sponsored.

PA currently have a large pool of cleared individuals (80% of UK Staff). Should a resource be identified where clearance is needed, the PA Security Vetting team will then process the individual through the relevant clearance procedure. The team will also be able to validate all existing clearances held by PA employees when requested.

1.8 Next steps

This service is intended to help customers develop and deliver successful outcomes regardless of the life cycle stage they are at. PA prides itself on working with clients and helping them to deliver outcomes whilst also providing them the ability to 'stand on their own' so that they can move their solutions forward without future involvement. Please contact us on GCloudFramework@paconsulting.com to discuss your needs further.



About PA.

We believe in the power of ingenuity to build a positive human future.

As strategies, technologies, and innovation collide, we create opportunity from complexity.

Our diverse teams of experts combine innovative thinking and breakthrough technologies to progress further, faster. Our clients adapt and transform, and together we achieve enduring results.

We are over 4,000 strategists, innovators, designers, consultants, digital experts, scientists, engineers, and technologists. And we have deep expertise in consumer and manufacturing, defence and security, energy and utilities, financial services, government and public services, health and life sciences, and transport.

Our teams operate globally from offices across the UK, Ireland, US, Nordics, and Netherlands.

PA. Bringing Ingenuity to Life.

Discover more at paconsulting.com and connect with PA on [LinkedIn](#) and [X](#).

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