



Crown
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Service



AWS Cloud, AI-GenAI and Data Migration Acceleration

GCloud Service Description Document

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AWS Cloud, AI-GenAI and Data Migration Acceleration

1.1 Short Service Description

We bring our Cloud Transformation Method and leading AWS insight across services such as AWS EC2, AWS Landing Zones, AWS Control Tower, AWS Glue (data transformation), Amazon Kinesis (data stream ingestion), AWS Amplify (application, web and app development), Amazon Bedrock and Amazon Q (GenAI platforms) to accelerate complex deliveries/migrations.

1.2 Key Service Features

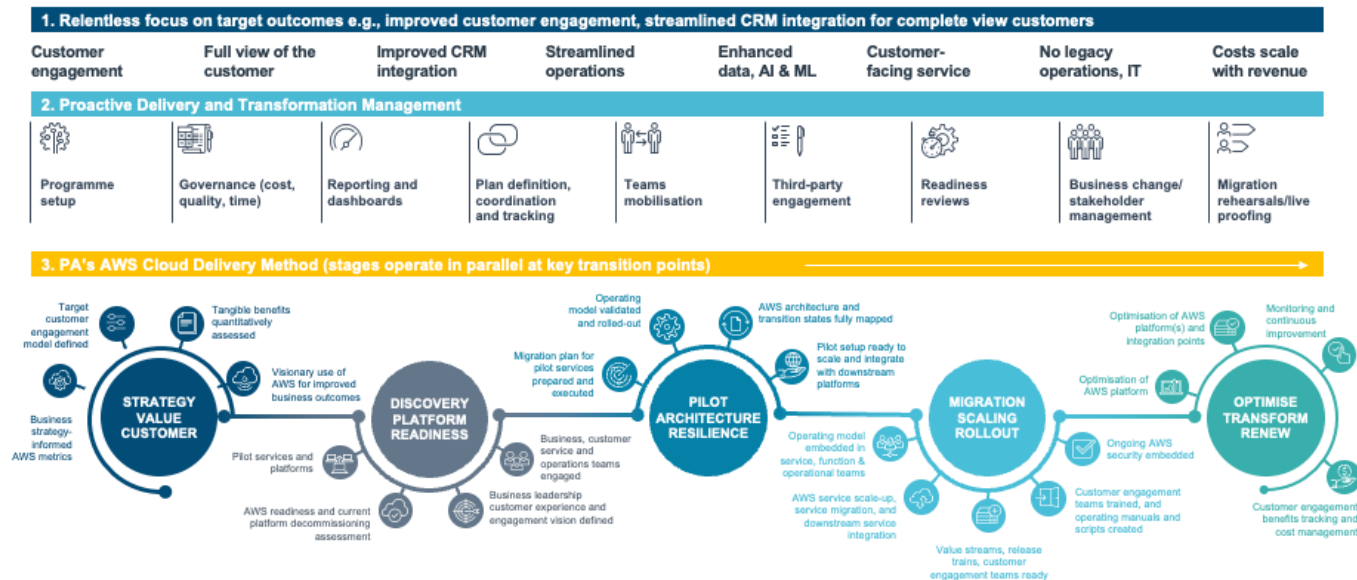
1. Value-focused programme strategy, charter development and OKR creation
2. Robust programme delivery methods (incl. Agile), issue resolution and reporting
3. Programme charter creation, Terms of Reference and Change Board operation
4. Sustainable/Green IT code review accelerators for low-carbon AWS Cloud
5. Agile Architecture and AWS-certified DevOps for long-term sustainable delivery
6. AWS Cloud delivery value-driver assessment, planning and delivery & integration
7. AWS AI/GenAI delivery value-driver assessment, planning and model delivery
8. AWS Data and Data Analytics assessment and data pipeline creation
9. AWS Cloud, tooling and solution selection, cost estimation and optimisation
10. Programme assurance and AWS platform review & troubleshooting

1.3 Key Service Benefits

1. Large-scale AWS, AI/GenAI and Data programme strategy, planning and delivery
2. Scalable, resilient and secure AWS-certified AWS platform delivery
3. Clear outcome delivery mapped to programme boards and delivery roadmap
4. Sustainable, low-carbon optimised AWS Cloud, AI/GenAI and Data platforms
5. Reduced technical debt and legacy IT enabled by AWS architectures
6. Cost-optimised AWS Cloud, AI/GenAI and Data platform delivery and operations
7. Ethical, responsible and regulation-compliant AWS Cloud, AI/GenAI and Data solutions

1.4 Service Definition

PA holds the AWS Migration Competency and is therefore allowed to offer the Migration Acceleration Process or MAP for short. MAP is a three-phase process that guides the client through the lifecycle of the project from initial planning to go-live, accelerating AWS Cloud, AI/GenAI and Data programme delivery. We bring our own Cloud Transformation Method (see below), which links together business outcomes e.g. improved customer engagement, proactive delivery management and AWS platforms solutions into a comprehensive method.



We work with business and technology leadership to map-out the core values and underpinning target outcomes wanted from Cloud, AI/GenAI and Data. We apply accelerators and assets, such as our proprietary Total Customer Experience (TCE) method to map-out internal stakeholder, employee and external party interests and translate these into specific themes that guide the vision. These facilitated workshops start shaping of the Cloud vision. Once the key themes are mapped, we seek senior leadership sponsorship and collaboratively set-out a practical programme structure, outcomes and KPIs – applying our experience to both accelerate delivery where practical and guard against over-ambitious or overly complex op models, governance or 3rd party supplier changes. Our PA Cloud Transformation Method (see above) starts with setting-out the vision.

Our experience of delivering sustainable Cloud foundations that last is that a large team may be counterproductive. Typically, we bring highly skilled individuals in each workstream to act as the hub to drive change, who will link across workstreams for an end-to-end outcome. This increases our customers teams' exposure to Cloud, AI/GenAI and Data, builds-up their Cloud, AI/GenAI and/or Data knowledge more quickly and grows confidence in day-to-day operations. We will keep the same team throughout for a consistent pace. We recognise achieving early outcomes is important in building momentum.

Applying our: (1) large-scale Cloud, AI/GenAI and Data programme strategy and value outcome mapping, (2) techniques, target outcome, programme mobilisation and programme roles & responsibility frameworks, (3) AWS architecture design patterns, Agile Architecture, and proven AWS accelerated delivery through our Cloud Transformation Method, our approach involves:

- Building an aligned and empowered transformation leadership team – Achieving agility at an organisational level impacts all areas of a business. In our experience, having a compact team of leaders that have the accountability and authority to drive change across the divisions and functions that make up the wider bank is a strong precursor to success.
- Taking a system view – The release of value will be capped if AWS Cloud, Data and AI/GenAI is adopted in a silo and isolated from other priorities or the wider business and

technology environment. Enabling functions such as Procurement, Finance, PMO and Compliance need to come on the AWS Cloud, Data and AI/GenAI operations journey e.g., to create cost models and to prepare Third Party Risk Management (TPRM) in a cloud-first world with platforms owned and operated by public cloud vendors.

- Changing mind-sets & cultures – AWS Cloud, Data and AI/GenAI is a business enabler, allowing teams to be nimbler and more effective, requiring cultural buy-in. The way teams think and interact with each other is as important as working practices they follow. Changing a culture to adopt cloud will take time and reinforcement. We will help you create a sustainable movement and act as the catalyst to overcome inertia.
- Defining an overarching vision, transformation strategy and objectives – Aligning to a single vision and coherent AWS Cloud, Data and AI/GenAI strategy will help bring previously discrete parts of the business and technology teams closer together in the pursuit of being sustainably cloud-first. As highlighted above, AWS Cloud, Data and AI/GenAI introduces not only technology changes – it requires a new approach across Procurement, Finance and Legal – and we help to illustrate the changes and bring a perspective on appropriate ways to govern and operate in a AWS Cloud-first world.
- Using a value stream-based model to govern and deliver the change – As part of shaping the target end state, we will create AWS Cloud, Data and AI/GenAI value streams – enduring and coordinated ‘teams of teams’ that contain all the resources needed to deliver a single set of customer or business outcomes. This approach will help you be nimbler, accelerating adoption of Agile working.

All this work is backed by PA’s 400+ trained & certified staff on AWS services. Part of our annual commitment to being in AWS’s highest tier of partner status – AWS Premier Tier.

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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