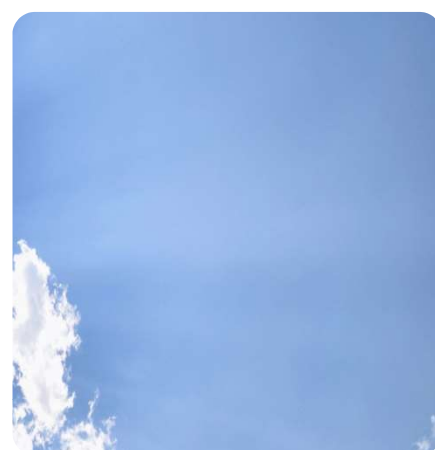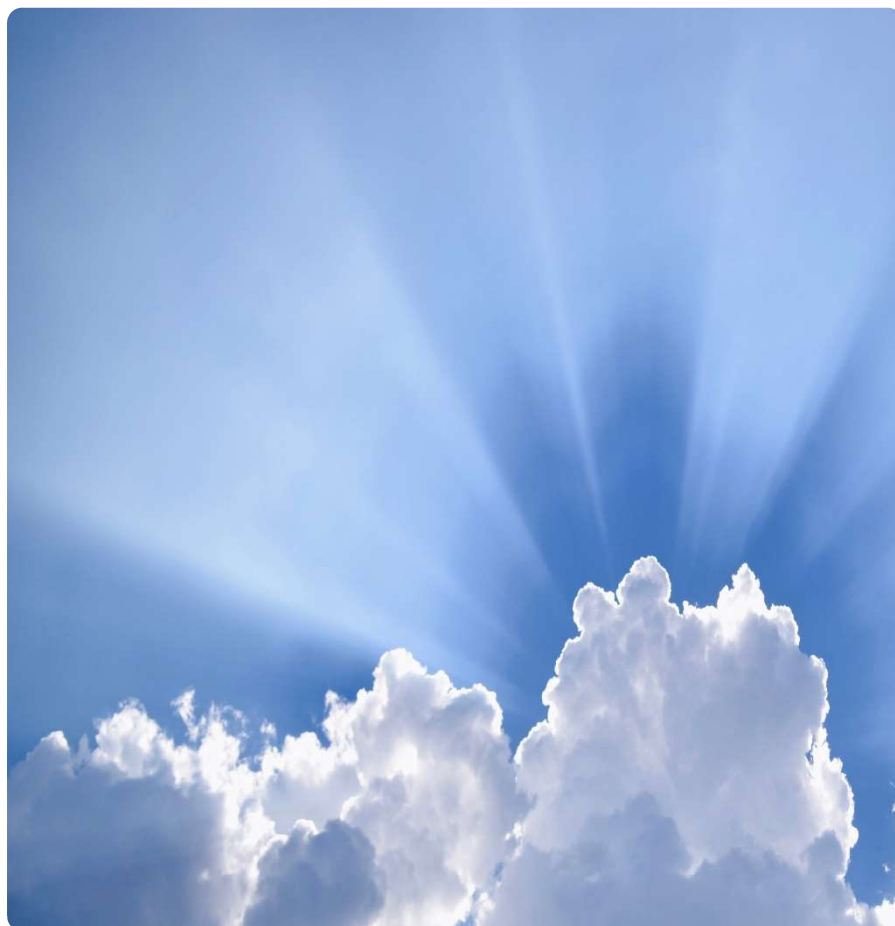# Designing and Developing Cloud Architecture - Technical Delivery Partner

GCloud Service Description

Bringing Ingenuity to Life.
paconsulting.com

Corporate Headquarters

10 Bressenden Place
London
SW1E 5DN
 +44 20 7730 9000

paconsulting.com

Prepared by: PA Consulting
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Contents

1 DESIGNING AND DEVELOPING CLOUD ARCHITECTURE - TECHNICAL DELIVERY PARTNER

1.1 Short Service Description

Cloud projects demand specialist expertise to successfully deliver. PA's enterprise and solution architects will draw on their SaaS, PaaS and IaaS cloud design and expertise including Workday, Salesforce.com, GCP, Azure and Amazon Web Services to oversee and own technical design and delivery to reduce costs, and accelerate successful project delivery.

1.2 Key Service Features

1. Experts: providing business, application, information, data and infrastructure architects
2. Requirements definition: helping to identify and articulate business requirements
3. Delivery planning ensuring timelines are challenging yet achievable
4. Solution building integrating architecture, development and test for cloud
5. Design authority to specify, assure and integrate technical deliverables
6. Strategic partnerships providing insight into AWS, Azure and GCP
7. Methodologies: delivering cloud solutions through agile or waterfall
8. Standards-based: Cloud-certified architects, tailoring implementation to your need
9. Technical Leadership: managing mixed technical teams
10. Managing suppliers: from evaluation and selection through to delivery

1.3 Key Service Benefits

1. Proven approach using PA's Driving and Releasing Change framework
2. Design authority services and robust monitoring and control
3. Independence by delivering the solutions through our vendor neutral approach
4. Client-side service working for successful cloud project delivery
5. Business alignment: integrating cloud solutions into your wider enterprise
6. Insight: blending expertise and experience to deliver the solution
7. Collaboration: dovetailing with client and supplier architects
8. Flexibility: tailoring our delivery to fit with your methodology
9. Expertise: providing architecture professionals with hands on cloud experience
10. Experience: an awarding winning cloud delivery portfolio across leading industries

1.4 Service Definition

The range and choice of cloud products continue to grow as the underlying technical capabilities and business models mature and vendors increasingly exploit economies of scale to commoditise IT services which previously had to be provided on premise. PA's Designing and Developing Cloud Architecture – Technical Delivery Partner service can help you with the learning curve imposed by the rapidly developing cloud marketplace, placing our architects alongside you to provide knowledge and experience, shape your IT vision, and lead technical delivery throughout the project lifecycle.

Our architects will work with your business from the outset, helping to establish your requirements and ensuring you are aware of the limitations and capabilities of software as a service (SaaS), platform as a service (PaaS) and infrastructure as a service (IaaS) cloud products and solutions. We will operate across all of the business, application, data / information and technology / infrastructure architecture domains as required, evaluating products and defining and delivering the right cloud solutions for your business.
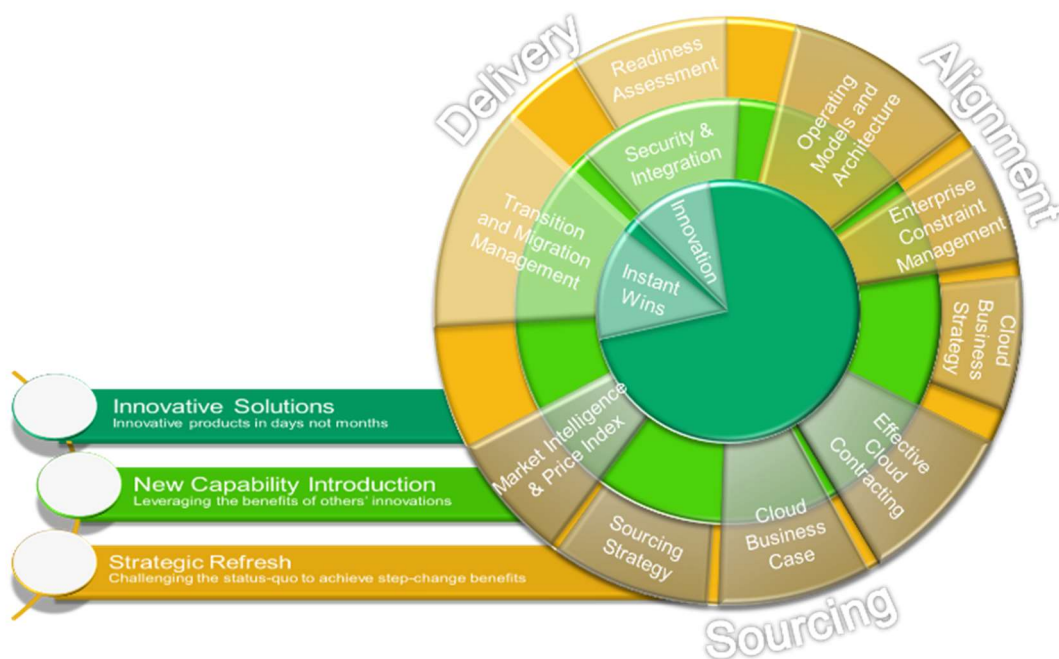
We have an approach that we have used to deliver cloud services underpinned by tools and templates

- **Innovative solutions** – a proven approach to providing rapid movement from initial idea to beta minimal viable product (MVP) developed and delivered via cloud services
- **New capability introduction** – to identify the key steps, from both a technical and people perspective, to source, plan and transition them into your organisation
- **Strategic refresh** – using our experience to analyse and review your current architecture and contracts to produce a roadmap of solution building blocks with a solid delivery plan to align with your target-operating model (TOM)

PA's underpins its cloud delivery capability by strategic partnerships with Amazon Web Services (AWS) and Google Cloud (GCP), and we have hands-on delivery experience with leading vendors, including, for example, Workday and Salesforce.com.

Our architects have experience in architecture frameworks and cloud technologies, covering TOGAF, SAFE as well as AWS, Azure and GCP accreditation and tailor their approach to fit with yours. We can work with you to identify and evaluate cloud vendors and services to meet your needs and will work closely with your own and supplier architecture, development and test teams as necessary to ensure smooth delivery of your cloud projects and release the cost and agility benefits of cloud technology for your business.

1.5 Why PA?

PA Consulting Group (PA) is a leading IT consultancy and one of the largest advisors to the UK government. We work as a trusted partner to help the UK Government apply an assured cloud delivery approach when developing their most complex information systems and cloud solutions.

PA is well placed to work with clients to help assess readiness, design, build, deliver, and test, to take advantage of cloud solutions. We will bring:

- Leading experience in identifying the costs and complexity drivers for moving existing or new IT services to cloud environments.
- Experience and knowledge to challenge the client organisation to ensure the key stakeholders are aligned ahead of the move to a Cloud solution.
- Access to the latest cloud vendor migration developments, ensuring a best-in-class approach, based on our work with major clients in both the public and private sector in the UK and overseas.
- Experience supporting cloud, in-house and hybrid systems side-by-side

More specifically we will bring:

Ideation & Strategy:
- Cloud strategy and advisory services
- Assessment of cloud readiness
- Cost-benefit analysis and ROI modelling
- Security and compliance assessment

Design & Architecture:
- Custom cloud architecture design
- Integration with existing IT infrastructure
- Multi-cloud and hybrid cloud solutions
- Disaster recovery and business continuity planning
- Robust solution delivery meeting GDS best practice and ISO27001

Development & Deployment:
- Cloud-native application development
- Containerization and microservices & serverless architecture
- DevOps practices and CI/CD pipeline setup
- Automated testing and quality assurance

Implementation & Migration:
- Data migration to the cloud
- Legacy application modernization
- Cloud service provider selection and management
- Implementation of Infrastructure as Code (IaC)

Operations & Management:
- Continuous monitoring and incident management
- Performance optimization and cost management
- Backup and restore operations.
- User training and change management.

Innovation & Scaling:
- Scalable infrastructure to support growth.
- Implementation of AI and machine learning capabilities
- Internet of Things (IoT) integration
- Ongoing innovation workshops and R&D

1.5.1 Social Value

Building a positive human future is at the core of PA's organisational purpose and we live this value as a key advisor and partner to the UK public sector and by delivering tangible benefits to communities and society.

We are passionate about the positive impact PA can have on wider society, making a significant contribution to efforts in tackling inequality, wellbeing, online safety and ensuring effective stewardship of the environment and fighting climate change.

We are committed to maximising Social Value by using our specialist knowledge and skills to develop firm-wide health, well-being and, diversity and inclusion initiatives for our own people, project-specific initiatives with our clients and wider community benefits. We can work with you to deliver measurable improvements across your key social value initiatives.

1.5.2 Security Clearance

PA are a government List X accredited company who have a dedicated Security Vetting team. 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). 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.

1.5.3 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.

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Discover more at paconsulting.com and connect with PA on LinkedIn and Twitter.