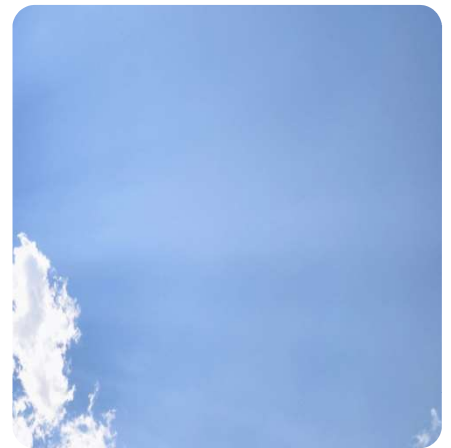# Designing and Developing Cloud Architecture - Managed Service

GCloud Service Description

Bringing Ingenuity to Life.
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1 DESIGNING AND DEVELOPING CLOUD ARCHITECTURE - MANAGED SERVICE

1.1 Short Service Description

PA's managed service provides a flexible and optimised route to deliver your most complex programmes using PaaS, SaaS and IaaS technologies. It can be spun up quickly and ensures quality of service. As a value add, we will also support you to grow your internal capability so it is sustainable.

1.2 Key Service Features

1. Enterprise architecture: creating, maintaining transition roadmaps and project portfolios
2. Solution architecture: defining and delivering cloud and hybrid solutions
3. Domain experts: business, application, data, information, and infrastructure architects
4. Cloud service integration strategy: combining cloud with on-premise solutions
5. Secure private cloud: delivering cloud benefits with private infrastructure
6. Evaluating cloud solutions: selecting vendors/products (SaaS, IaaS, PaaS)
7. Assurance: identifying and resolving issues before becoming costly problems
8. Benefits realisation: managing cloud suppliers and validating project outcomes
9. Standards-based: Cloud-certified architects, tailoring implementation to your need.
10. Integrated governance: ITIL experience in managing and implementing change

1.3 Key Service Benefits

1. Client-side service: leading delivery of your cloud-based projects/solutions
2. Strategic approach: defining cloud projects aligned with business vision
3. Integration: managing complexity of COTS, on-premise and cloud-based solutions
4. Follow-through: helping manage your suppliers through the delivery phase
5. Flexibility: offering complete architecture service or supplementing your team
6. Scalability: flexing our team to meet your architecture demand
7. Independence: delivering the right solutions through our vendor-neutral approach
8. Expertise: accessing a pool of over 300 enterprise/solution architects
9. Experience an awarding-winning cloud delivery portfolio across leading industries
10. Operational excellence: ensuring the reliable delivery of services

1.4 Service Definition

PA's *Designing and Developing Cloud Architecture – Managed Service* places our experts to lead on the delivery of cloud architecture design and to deliver the service itself by working in collaboration with you and your suppliers. We work alongside your own architects and service managers or we provide an entire team depending on your needs, helping you realise the benefits of cloud technology while increasing the agility of your organisation, and tackling the integration challenges associated with mixed cloud and on premise, off-the-shelf and bespoke solutions.

Cloud computing introduces a dilemma: the features that lower the barriers for successful IT solution delivery, such as pay-as-you-go pricing and service elasticity, equally increase the likelihood of architectural complexity and fragility. Paradoxically these problems increase as it has become easier for project teams and other workgroups to adopt self-service approach to cloud service provision and solution delivery – albeit uncontrolled.

Nonetheless, organisations must remain responsible for the reliability and integrity of their information assets and cannot out-source the risk associated with failing to manage data and services effectively, even as it becomes possible to exploit an increasing range of commoditised cloud services.

PA's has certified enterprise, solution and domain architects covering TOGAF, SAFE as well as AWS, Azure and GCP accreditation will establish a strategic approach to your cloud and on premise architecture projects, bringing our own methodology or tailoring our approach to your own. We will operate across all of the business, application, data / information and technology / infrastructure architecture domains as required to understand your business vision and establish a solution portfolio to deliver the architectural simplicity and flexibility you need to achieve agility in your business.

PA's ITIL certified implementation managers will establish the key governance and contracts as part of service design. Controlled by service level agreements (SLAs) and operational level agreements (OLAs) to ensure your benefits are realised. This will provide a robust and industry standard approach for "run and maintain" activities for your cloud services.

We are experienced in master data management (MDM) and will guide you in making sure your information assets are authoritative, secure and accessible in a cloud-based or mixed IT environment. We do not stop at designing solutions but can work with you through the delivery period to ensure the service implemented realises the specified benefits. Helping to manage your own- and third-party supplier services through development, testing and introduction into your live environment. Our people have delivery experience with a range of waterfall and agile approaches.

Other capabilities available through PA's cloud architecture managed service include defining and delivering secure private cloud solutions where it is unacceptable, impractical or undesirable to use shared infrastructure, evaluating cloud vendors and solutions in the context of your business requirements, and providing delivery assurance to anticipate and resolve risks and issues before they turn into costly problems.

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.