

G-Cloud 15 Framework

Service Definition

Service Description

Cirrus designs and delivers secure serverless and event driven systems using cloud managed services. We build scalable, cost effective architectures with functions, events, APIs, automated pipelines and observability across AWS, Azure and GCP, modernising legacy components and providing maintainable, high performance cloud native solutions that reduce operational overhead and improve resilience.

Service Features

- Serverless architectures using functions, queues, topics and event buses.
- Event-driven design for resilient, decoupled integrations.
- Secure API gateways and workflow automation.
- Managed cloud databases and messaging services.
- Infrastructure as Code enabling consistent deployments.
- CI/CD automation for low-risk releases.
- Built-in observability for performance and reliability.
- Security automation with policy enforcement and scanning.
- Modernisation from legacy to managed cloud services.
- UK-based, security-cleared serverless engineering team.

Service Benefits

- Lower cost through pay per use.
- Improved resilience using managed services.
- Faster delivery via simplified operations.
- Reduced overhead through automation.
- Increased scalability automatically.
- Stronger security with platform controls.
- More reliable integrations using events.
- Easy evolution with modular components.

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Planning

We work in a flexible, transparent, and agile way aligned with the Government Digital Service (GDS). In close collaboration with the customer, business requirements, high level deliverables and outcomes will be identified. We will run discovery sprints in which interviews with key stakeholders and service users will be conducted. Technical design reviews will be performed, story boarding, transition plan, testing and implementation strategies will be formed. These will include identifying acceptance criteria, continuous integration, release, and deployment methodology. These will be reviewed and as part of the continuous improvement strategy throughout the course of the project.

Following agile principles, the service delivery will occur over a series of short iterations (sprints). The plan for delivery will be reviewed in collaboration with the customer and updated at each iteration. Full visibility of progress will be provided using agile planning tools. Every iteration will have a Show and tell session to obtain feedback as well as retrospective session to identify improvements and successes. We will review service design to ensure that security concerns, cost management, performance implications, operations management and service resiliency are addressed.

Setup and migration

We will assess the current environments and services. Review existing infrastructure, applications, and data to understand the organisations needs and challenges ensuring that we aligned to a customer's business requirements and cloud strategy. Robust, cost-effective roadmaps for migration will be produced which will consider external dependencies and take steps to mitigate risk.

Where possible, to minimise downtime during workload and data migration, appropriate tooling will be selected, and automations established to ensure repeatable, reliable, and testable processes with reduced operational overhead.

Quality assurance and performance testing

Quality Assurance (QA) plays a central role in our work and permeates all aspects of successful project delivery. We begin with shift-left testing, incorporating QA practices from the start. Our team bring a wealth of experience in unit testing, test-driven development, continuous integration (CI) with pre-commit hooks and linting, and continuous deployment (CD) with automated testing across multiple branches. Additionally, we tailor integration testing strategies to each project’s unique requirements. Our direct QA experience allows us to create

effective test strategies and capture both functional and non-functional requirements. From a delivery perspective, QA ensures we partner with you the customer for success, emphasising feedback, transparency, and continuous improvement.

Training

Throughout the delivery life cycle, we will perform knowledge transfer, continual training and upskilling sessions to ensure your organisation has the ability to use the cloud-based software and services.

Where possible and appropriate, we will operate training techniques such as paired programming, pairing your resources with our experts to work through specific cloud features, management, and incidents to provide hands on experience delivering changes.

Furthermore, technical operational support documentation will be completed throughout delivery, quality assured by the customer.

About Us

Cirrus Software Solutions provides technical software solutions for the UK public sector in Government, defence and critical national infrastructure. We enable organisations to work efficiently by providing expertise in developing cloud-based software products.

Cirrus puts customers and employees first and builds stable, trusted, and successful partnerships through openness and collaboration.

We provide a range of cloud software support skills including DevOps, Business Analysis, System Engineering, Software Development and Cloud Security Architecture. We have over 20 years of government-based secure software development experience including web development, microservice architecture, software delivery management and cloud consultative services.

The cloud is becoming more prevalent within industry and public sector projects worldwide, and the UK is no exception. We are cloud agnostic and all our engineering teams are AWS and/or Azure certified as a minimum.

We use Agile practices throughout and customer collaboration is at the heart of our work.

CIRRUS SOFTWARE SOLUTIONS

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Our Values

- We are **problem-solvers** with the best tools, facing challenges that lead to rewarding and impactful outcomes.
- We conduct business with **integrity** by building relationships with mutual respect, through honesty, transparency, and active listening.
- We foster an atmosphere of mutual **respect and collaboration** to promote happiness and satisfaction.

For more information on this G-Cloud 15 service please contact us on:

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