

CI/CD Accelerator Service G-Cloud 15





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1 Service Overview

Capgemini's CI/CD Accelerator can:

- Provide consulting support to facilitate the development of CI/CD pipelines and processes to enable efficient software delivery
- Provide an assessment of current CI/CD capability and maturity with advice and guidance on how to incrementally develop capability to match current best practice
- Enable the creation of CI/CD 'as-a-service' within a new or existing environment, project or programme
- Provide a secure and dynamic CI/CD capability across one or more delivery teams
- Scale software delivery capabilities throughout the entire organisation, blending with existing operating models to help deliver continuous improvement.

Capgemini's CI/CD Accelerator provides the design and subsequent implementation of a cohesive set of automation tools to support Continuous Integration and Continuous Deployment (CI/CD). This accelerator encompasses prove, ways of working, practices and processes, in conjunction with a variety of open-source technologies and open standards to support:

- the creation of artefacts and containers
- delivery of microservice and hybrid architectures
- automated provisioning of conventional and serverless infrastructure
- software defined networks

The solution supports cloud, hybrid, or private data centre deployments to the highest standards, delivering secure, scalable pipelines with integrations with not only tools, but teams - from DevOps to Security and SecOps, Quality Assurance and Site Reliability Engineers. We will work with these experts and stakeholders to define standards, best practice, and governance in a single, central location - providing an optimised delivery solution while removing complexity for platform users.

Developers will be empowered and able to provision pipelines in a self-service fashion, define their routes to live from development-to-production whilst being completely abstracted away from the underlying technologies.

The advisory elements of the service help clients identify the objectives, required investment, targeted benefits and approaches to the design, introduction, and operation of the service.

The delivery elements of the CI/CD accelerator support the realisation and operation of software delivery at scale, including:

- **People and Culture:** Experienced, decision-driven teams with shared and aligned objectives working in an environment of continuous experimentation and learning
- **Processes:** Based on Build-Release-Run-Repeat principles with the focus on business outcomes and underpinned by continuous improvement, measuring results, welcoming feedback and empowering teams and individuals through self-service
- **Tools:** Innovative, industry-recognised and integrated tooling focused on specific use cases, enabling the principles of continuous integration and delivery through the pursuit of automation.

These services can be tailored to integrate with existing governance, service regimes and adapted according to the current state and the agreed outcome.



2 Business Need

Software has no value until it is delivered and able to be used by the end user - effective and high-cadence software delivery practices are therefore critical to modern digital organisations. Public Sector organisations require CI/CD pipelines to deliver software into citizens' hands safely, securely, sustainably and with defects caught as early in the lifecycle as possible where they can be rectified as early as possible and as cheaply as possible (shift-left).

Organisations often struggle to optimise their software delivery automation and pipelines to balance the competing requirements of high-cadence, fast-feedback, security, and innovation. Frequently teams are left with a stark choice between a "one-size-fits" all pipeline that is not optimised for individual service delivery requirements, or teams are required to build, maintain, and evolve their own pipelines - leading to significant problems including:

- Duplicated effort as each team builds similar requirements
- Lack of optimisation as teams balance their core delivery requirements against supporting infrastructure, including pipeline automation
- Lack of shared best-practice
- Difficulty implementing Supply Chain Security controls
- Inability to deliver high-security pipelines as the knowledge and skillset required is outside of the scope of the team
- Lack of integration with platform OAT and Change Management
- Lack of integration with enterprise tooling, such as Jira and Confluence
- Fractured/Unclear lines of communication and ownership
- Lack of overall and team specific pipeline observability, such as the DORA metrics - crucial for improving overall software delivery cadence and quality
- Difficulty establishing standards to enact directional or policy change at scale - with a centralised capability the changes can be enacted once and encompass the entire estate

3 Our Approach

Capgemini has experience of delivering a CI/CD Pipelines as a Service product, capable of providing a turnkey solution to delivery and platform teams alike. This eliminates the requirements for delivery and platform teams to provide their own specialist CI/CD skillsets and allows them to focus on delivering high quality, secure software and infrastructure.

By utilising an innovative template-based approach with light weight, minimum-viable-configuration using YAML, teams can produce build and release pipelines with full lifecycle management for infrastructure as code, configuration, build and deploy. In as little as eight lines of code they create consistent, repeatable pipelines with deterministic outcomes in a sustainable manner. In contrast, having each team create and maintain bespoke or patterns-based pipelines is often unsustainable, insecure and costly.

Central to this is the service/product-based repository pattern. Designed to articulate the structure and boundary of a common micro-service but with the flexibility to represent other deployable parts such as configuration as code. By composing a service as deployable parts, we enable our pipelines to respond quickly to any change enabling users to utilise the full benefits of continuous integration, delivery and deployment with fast feedback and defect detection as early as possible (shift-left).

Convergence on key strategic technologies and supporting them via the pipeline can allow teams to embrace the best aspects of DevOps culture. Allowing teams to create reusable patterns, share code and best practice. In the long run this will reduce the cost of delivery and create a more sustainable future for your platform and products.



Where applicable, each pipeline will template:

- Static Application Security Tooling (SAST).
- Dynamic Application Security Tooling (DAST).
- Software Composition Analysis (SCA)
- Enterprise Tooling Integration (e.g. Atlassian Stack).
- Integration points with the platform OAT capabilities
- Test execution.
- Artifact signing, attestation and non-repudiation mechanisms.
- Software Bill of Materials (SBOM) creation and tracking
- Deployment Strategies like Canary or Blue/Green

This has been proven to:

- Improve delivery cadence by reducing the amount of time required to create pipelines from weeks to minutes.
- Reduce cycle times allowing teams to deploy through to production multiple times a day.
- Reduce pipeline spend by consolidating effort and automating creation of CI/CD pipelines.
- Reduce duplication of effort by reducing the number of engineers required to produce CI/CD pipelines and creating reusable templates.
- Reduce the complexity and cost of standardisation by reducing the volume of changes required to pivot to a new technology or standard.
- Simplify lines of communication between security, governance and pipeline teams.
- Improve Supply Chain Security through consolidating on a single point of entry for artifacts and their dependencies into the environment and strict attestation and verification

Our CI/CD Accelerator model is not tied to any underlying technologies and can be implemented on existing CI/CD automation tooling if desired or we can make recommendations for tooling that may provide additional benefits (such as cheaper delivery, better security and greater observability). Example tooling that can be used includes (but is not limited to):

- Gitlab
- Concourse
- GitHub
- Jenkins
- Azure DevOps

3.1 Engagement Model

For each engagement, teams can be a mixture of people from the buyer organisation, third parties and Capgemini or they can be entirely staffed by Capgemini.

Upon selection, we will mobilise and perform project initiation activities using agile principles aligned to the GOV.UK Service Manual.

Where the Buyer requires greater flexibility or where scope is less certain, Capgemini can:



- Provide an initial discovery phase on a day rate basis to establish a joint understanding of scope, complexity and requirements. Once established a project with defined scope can be set up.
- Provide resources on an ongoing day rate basis. This approach can be appropriate where the buyer is looking to develop internal capability and is looking for skills transfer or additional capability within a limited timeframe.

4 Buyer Responsibilities

Please refer to the Supplier Terms listed with this service on the Platform. These may contain additional Buyer obligations/costs the Buyer is subject to that are not identified anywhere else in the Supplier's Application or on the Platform.

5 Service Management

Capgemini can design, implement and manage a CI/CD Accelerator Service, across one or more delivery teams. The CI/CD service can be specially tailored for each use case providing for full stack delivery and with focus on quality, high-cadence and high-security.

6 Protection of Data

This service is based on a security classification of 'Official', however should you have a requirement for a different security classification that you would like us to consider, please contact us to discuss. Additional requirements this may be subject to additional Charges in accordance with the SFIA Rate Card.

7 On-boarding and Off-boarding

Capgemini shall undertake on-boarding and off-boarding activities agreed within the Order Form (including as a minimum an exit plan in line with the Call-Off Contract terms) which will be charged for in accordance with the Pricing section for this service.

8 Skills and Knowledge Transfer

Capgemini recognises that skills and knowledge transfer is a critical element in the provision of G-Cloud services to public sector clients. Where possible and applicable, this forms part of the delivery plan for the service agreed at the start of the engagement. Our consultants and engineers are experienced in providing skills and knowledge transfer for major private and public sector clients.

Where appropriate, we may use a standard approach, tailored to topic, skills-gap and individual, to ensure consistency and effectiveness. The approach, Capgemini's Assess-Plan-Implement framework, has been used repeatedly by our teams to structure the work involved in transferring skills and creating new teams capable of driving and sustaining change long after the end of the formal programme. The framework can be applied throughout a project to understand knowledge transfer objectives, plan training delivery methods and materials, and deliver and evaluate success.



9 Vendor Accreditations/Awards



For the 13th year in a row, Capgemini has been recognised as one of the World's Most Ethical Companies® by the Ethisphere® Institute. This is an acknowledgement of our ethical culture that makes us an employer of choice and responsible player in the eyes of our clients, shareholders, and the wider community.

10 Sub-contractors

None.

11 Business Continuity and Disaster Recovery

No disaster recovery plan is provided as part of these Services.

12 Pricing

This service is priced in accordance with the SFIA Rate Card attached. Capgemini can also provide offshore resources at reduced rates where appropriate. Projects can be priced either on a Time & Materials or Fixed Price basis.

13 Ordering and Invoicing

Please refer to the Supplier Terms for this service.

We would be pleased to arrange a call or meeting to discuss your requirements of our service in more detail.

14 Termination Terms

Please refer to the Supplier Terms for this service.

15 Further Information

For more information about this or any of our G-Cloud services, please contact our Public Sector Team.

Phone: 0370 904 4858

Email: publicsector.opps.uk@capgemini.com including the following information:

1. The name of this service.
2. The name of your organisation.
3. Your name and contact details.
4. A brief description of your business situation.
5. Your preferred timescales for starting the work.

About Capgemini

Capgemini is a global business and technology transformation partner, helping organizations to accelerate their dual transition to a digital and sustainable world, while creating tangible impact for enterprises and society. It is a responsible and diverse group of 340,000 team members in more than 50 countries. With its strong over 55-year heritage, Capgemini is trusted by its clients to unlock the value of technology to address the entire breadth of their business needs. It delivers end-to-end services and solutions leveraging strengths from strategy and design to engineering, all fueled by its market leading capabilities in AI, generative AI, cloud and data, combined with its deep industry expertise and partner ecosystem. The Group reported 2024 global revenues of €22.1 billion.

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