

DevSecOps for Microsoft G-Cloud 15





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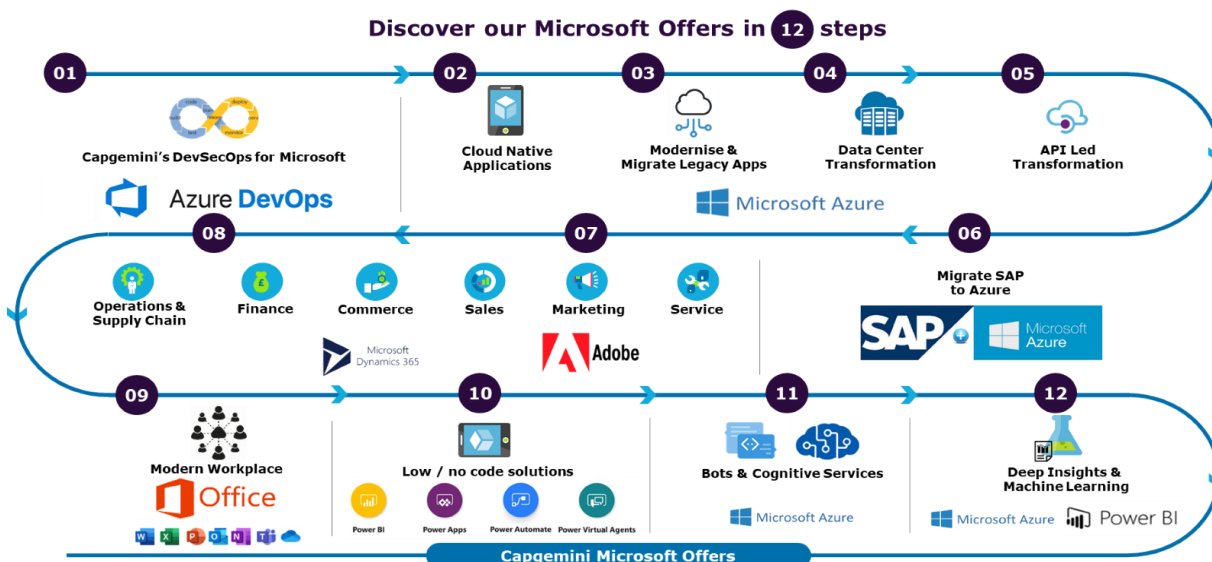
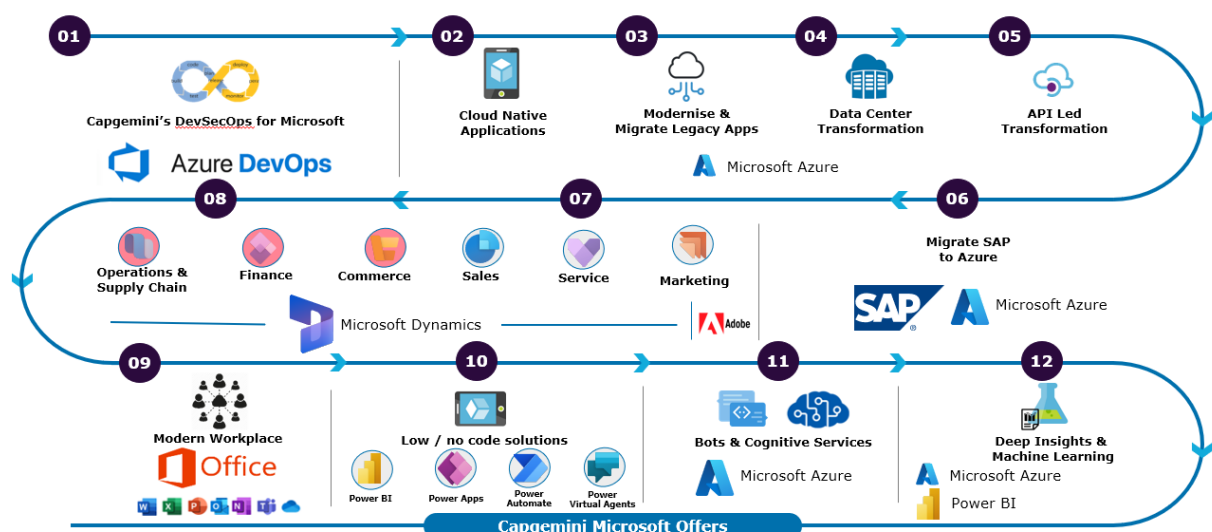


1 Service Overview

Capgemini's DevSecOps and Platform Engineering for Microsoft Service encompasses advisory Services as well as Infrastructure as Code, automated development and test pipelines. These services can help remove administrative burden and cost, help improve delivery speed/agility, security, provide consistency and quality and help to enable cost reduction.

As a Tier-One Global Systems Integrator and previous Microsoft Services Partner of the Year, Capgemini has a market-leading Microsoft capability across Azure, Dynamics 365, Microsoft 365 and Power Platform (Power Apps, Power Automate, Copilot Studio, Dataverse and Power BI) capabilities.

Capgemini's core offerings also include the build and deployment of Internal Development Platforms (IDP) which enable standardisation and streamline processes to increase development productivity by providing self-service capabilities for organisations and their engineering teams at scale. We have successfully delivered 'GitOps' practices within an IDP, enforcing all configuration to be within a source code control repository. Capgemini has proven its Microsoft expertise at enterprise scale across a range of sectors, including the UK Public Sector. This experience has allowed Capgemini to develop specific capabilities and Intellectual Property around **DevSecOps for Microsoft** that can help support, accelerate and automate the development, testing, deployment and traceability around Microsoft Cloud services.



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Capgemini can also provide guidance and implementation of ways of working, practices and processes, to enable continuous integration, continuous deployment, GitOps, and automated provisioning of infrastructure, networks and cloud-based solutions. This can facilitate the creation of an automated, self-service 'development to production' capability, supporting concepts such as microservices, containerisation, infrastructure as code, serverless architecture, infrastructure and software defined networking.

The advisory elements of the service can start with a DevSecOps/Platform maturity assessment to help clients to develop strategies that can identify the goals, objectives, the required investment, targeted benefits and approaches to the design, introduction and operation of the service.

Through managing all aspects of software development, delivery using everything as code (EaC), infrastructure, configuration and code are captured as artifacts. Through this approach we achieve repeatability, scalability and consistency from a lower environment through to higher environments and into live. It reduces risk around the manual creation of infrastructure, applications and dependencies between development and operations teams. Traceability is improved as the audit is available through the tooling. The consistency and lower risk that everything as code brings to environments and processes means it is welcomed from a security and compliance.

Capgemini also supports customers in building Internal Development Platforms that can be customised based on organisational requirements. We can build and provide fully self-service capabilities and golden paths for development teams to help increase autonomy and consistency across an organisation.

And our approach to everything as code extends through to Automation testing. Our automation test frameworks can be applied to API automation testing and UI automation testing. In addition, we integrated security testing that analyse according to OWASP Top 10 (2025) and OWASP API Top 10 (2023) security standards. Finally, our performance test frameworks ensure benchmark characteristics are captured build on build through the CI/CD tooling. These frameworks and approach ensure we are committed to shift left on quality, identification and resolution early in the SDLC.

The delivery elements of the service can support the realisation and operation of DevSecOps, Site Reliability, Platform Engineering, and Cloud Native Engineering capability comprising of:

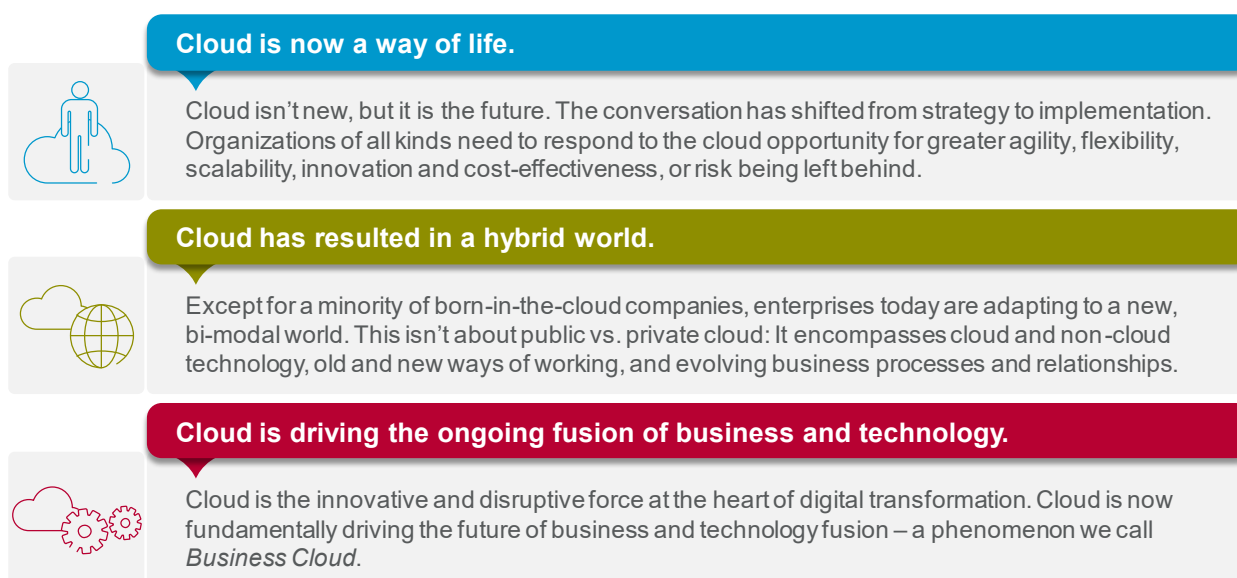
- **People and Culture:** Experienced and decision driven teams with shared and aligned objectives working in an environment of continuous experimentation and learning.
- **Processes:** Following the principles of Build-Release-Run-Repeat. Focused on business outcomes through continuous improvement, measuring, listening 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 and service regimes and adapted according to the current state and the agreed outcome.

This service supports Cloud-based projects and services.

2 Business Need

Capgemini's clients are trying to reduce costs, be more agile, innovate and accelerate their journey to the Cloud without compromising on quality, controls and security. They usually need support in updating the technology and aspects of the business to accommodate the Cloud paradigm.



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As organisations leverage Microsoft cloud services including Dynamics 365, Microsoft 365 or Azure, there is a recognition of the need to accelerate and automate the development, testing and deployment.

3 Why Capgemini

Capgemini and Microsoft – an Established Global Partnership

Since 1997, Capgemini and Microsoft have maintained what Microsoft describes as *“a strategic partnership that integrates unsurpassed consulting experience with world-class technology.”* Capgemini and Microsoft's longstanding partnership is founded on collaboration and innovation. Capgemini is a certified Microsoft Azure Expert, Gold Certified Partner, an Azure Partner (IaaS and PaaS) and since 2011 and has received numerous awards recognising Capgemini's track record with Microsoft Solutions. Capgemini has twice been named Microsoft Enterprise Partner of the Year and Microsoft Services Partner of the Year by Microsoft themselves and has also been recognised for its joint work in the Public Sector.

World Class Microsoft Delivery Capabilities

For more than twenty years, the Capgemini/Microsoft partnership has a track record of providing customised, highly functional and flexible strategies that have met and exceeded the expectations of clients around the world. As a Certified Azure Expert, Gold Certified Microsoft Partner and an Azure Partner, Capgemini's relationship with Microsoft is managed at a global level, and Capgemini has access to Microsoft support, product teams, business groups, Microsoft executives and training – all which Capgemini uses to support the service delivery. Capgemini has been providing Centre of Excellence consulting, Application Management Services, Migration and Development services in partnership with Microsoft for over a decade.

4 Capgemini's Approach

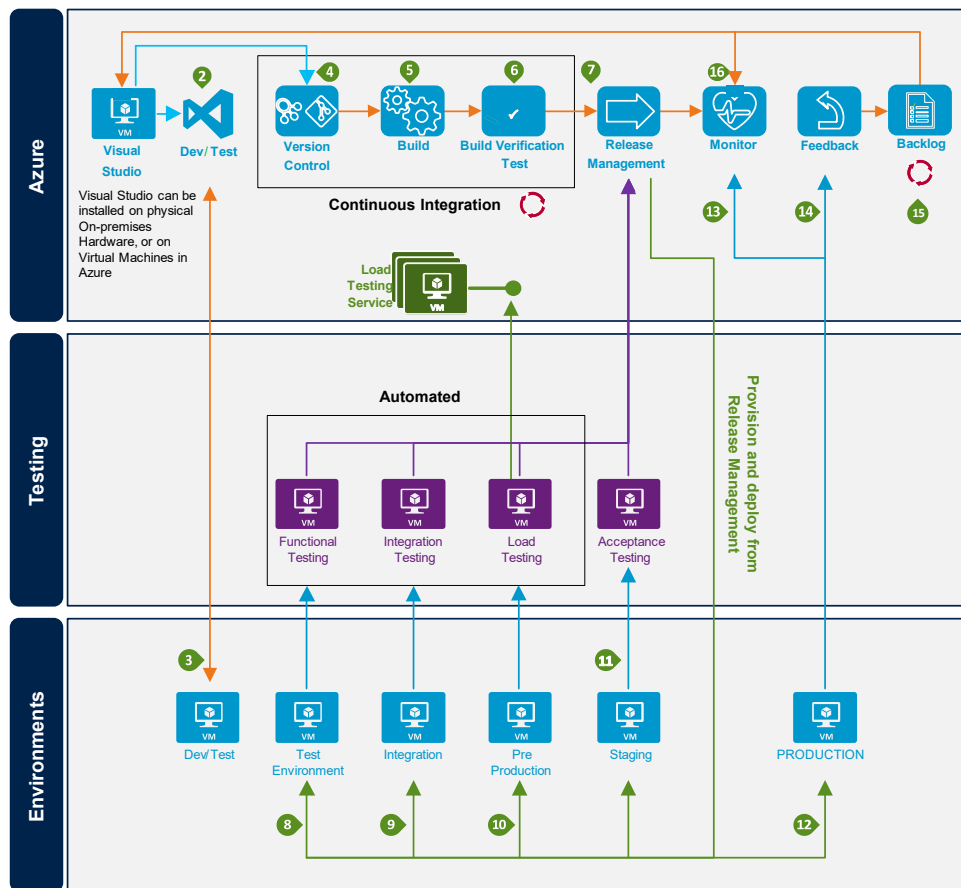
Capgemini's **DevSecOps and Platform Engineering approach for Microsoft** can help provide a key accelerator for organisations implementing Microsoft Cloud PaaS and SaaS services. DevSecOps/Platform Engineering for Microsoft can provide delivery acceleration through a repeatable and traceable approach to code quality, version control, security, automated testing, continuous integration and continuous delivery and monitoring. It also enables developer self-service tooling – minimising dependencies and maximising efficiency and autonomy. We promote a 'platform as a product' methodology when delivering DevOps and Platform solutions. Part of this journey also includes shifting the testing effort 'to the left' as early as possible.



We budget for software engineering resources at the beginning of the product development cycle. We have seen the successes of putting in place good practices and processes in place early. These include a combination of static code analysis (before deployment), automation testing (including Functional), and dynamics code analysis (after deployment) that are fully integrated as part of CI/CD pipelines. Through these analysis tools we can measure and increase quality of code delivered to higher environments and de-risk future iterations of code. Fast feedback is key in these scenarios for development teams so any issues can be addressed early.

Capgemini's DevSecOps and Platform Engineering approach for Microsoft addresses Infrastructure as Code (environment setup) and automated development and test pipelines (CI/CD pipelines) which can help reduce the administrative burden and costs whilst also helping to enable consistency, quality, and standardisation across an organisation. All these tools and techniques can also be combined/measured with the DORA metrics to evaluate an organisations DevOps process performance and maturity – and identify areas of continuous improvement.

Illustration of using Azure DevSecOps with Azure



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A typical implementation of DevSecOps for Microsoft can address the following:

4.1 Configuration

Configurations for SaaS platforms (Dynamics 365, SharePoint and Power Platform) can be created in a functional environment, exported and stored in Azure DevOps, GitHub, Gitlab or any other source code control repository. From here, these Configurations can be version-controlled and tested in a Build & Release cycle. Then a package can be produced ready for deployment through to subsequent environments.

4.2 Environments

Environments can be created and destroyed on demand (typically for different testing purposes), as per Microsoft best practice, and can serve as temporary workspaces dependent on team requirements. These are connected to Azure DevOps or GitHub and can receive changes/updates automatically or manually as expressly



agreed/approved with business stakeholders. The approach provides flexibility while reducing cost of hosting sporadically used environments.

With an everything as code approach, cloud environment are fully captured. That includes resources themselves and the associated configuration and finally the software. This ensures repeatability across environments (which particular emphasis on consistency in higher environments). And it also means potential cost saving through the ability to spin up and remove environment based on usage (i.e. lower environments can be deleted when not being used or when a project is not being actively being developed). The number of environments can differ based on requirements and promoting a 'shift-left' strategy in automated testing can reduce the overall amount – saving on costs.

4.3 Deployments

Application deployments can be automated through Azure DevOps, GitHub Actions, Jenkins, Octopus Deploy, or any other provider. These deployments can be suited to the needs of the individual scenario. For example, a tester will often receive the latest build, along with the newest master data set. Functional team members can require the latest code but can pull data from the build as they require it. Developers generally pull code separately from deployments, using Azure DevOps or GitHub. Production deployments can go through gated approvals from agreed business owners prior to deployment or a fully automated testing approach focusing on continuous delivery without manual intervention.

4.4 Test Automation

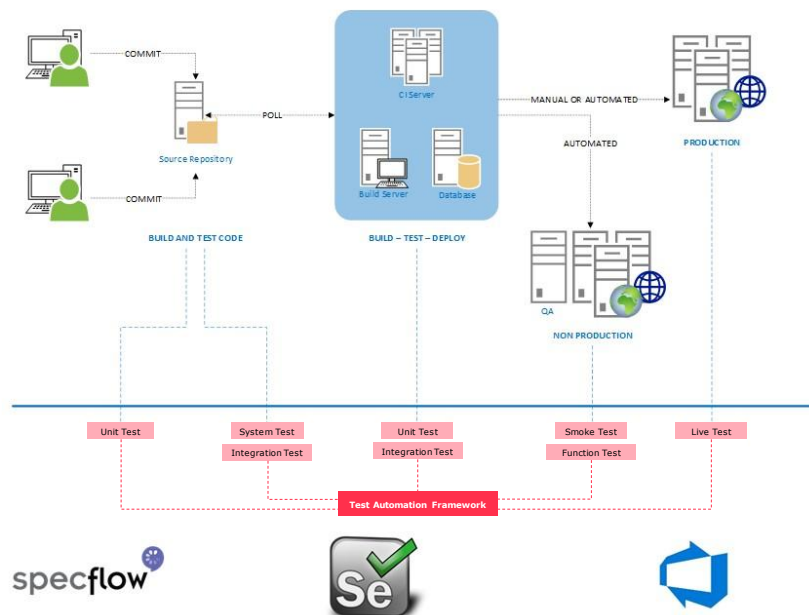
Furthermore, test automation can be incorporated into the DevSecOps toolchain to help further accelerate development, configuration and customisation, typically through:

Behaviour Driven Development using Selenium WebDriver, SpecFlow and Azure DevOps or GitHub Actions;

- Capgemini Test Framework implementing common actions like "Click" or "Validate" for Dynamics 365; and
- Use of Microsoft EasyRepro.

This can be integrated into Capgemini DevSecOps for Microsoft process, with Azure DevOps or Jira tasks created for reusability.

Illustration of how the Automated Testing can be integrated into DevSecOps for Microsoft



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This approach can enable Testing Automation to be integrated as part of the early build lifecycle, natural and seamless production of Automated Regression and Automated Smoke Testing Pack for every level of testing, all supporting the approach of testing “early and often”.

4.5 Security

Capgemini considers the appropriate level of security and privacy to be critical aspects of any solution. Capgemini’s approach can help evaluate and categorise the security and/or privacy requirements in the early stages of an engagement, in agreement with the Buyer. This can enable “secure by design” and “privacy by design” to be embedded in the design and delivery of the solution, through the functional and technical design of the solution, the design and implementation of environments needed for the delivery of the solution and in Capgemini’s delivery approach and ways of working – all of which can be key aspects that can affect the design of a DevSecOps and Platform environment and capability. Vulnerability scanning tools can be fully integrated into CI/CD pipelines to perform dynamic scanning to ensure API’s and User Interfaces conform to OWASP standards.

5 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.

If these responsibilities do not match your expectations, then please contact Capgemini in order that we can explore options to vary our approach.

6 Service Management

Capgemini has successfully managed and delivered thousands of projects and programmes - some small in size and others which are some of the largest multi-supplier ecosystems in the world. Capgemini has an overall governance model, which sets the standards Capgemini needs to follow both for small projects and large programmes of work.

The scope of the individual services to be provided will be agreed within the Order Form, and will be charged for in accordance with the Pricing section for this service.

7 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.

8 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.

9 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.

10 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 acknowledgment 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.

Capgemini has achieved Microsoft Gold Competencies in the following:

1. Application Development
2. Application Integration
3. Cloud Business Applications
4. Cloud Platform
5. Cloud Productivity
6. Collaboration and Content
7. Communications
8. Data Analytics
9. Data Platform
10. Datacenter
11. DevOps
12. Enterprise Mobility Management
13. Enterprise Resource Planning
14. Messaging
15. Project and Portfolio Management
16. Security
17. Small and Midmarket Cloud Solutions
18. Windows and Devices

Advanced Specialisations

Advanced specialisations are earned by partners who have undergone extensive validation by Microsoft or a third-party auditor and are based on their ability to meet Microsoft's highest standards of service delivery in a specific solution area

1. Analytics on Microsoft Azure



2. Calling for Microsoft Teams
3. Cloud Security
4. Data Warehouse Migration to Microsoft Azure
5. Id & Access Management
6. Kubernetes on Microsoft Azure
7. Low Code Application Development
8. Meetings and Meeting Rooms for Microsoft Teams
9. Modernisation of Web App to Microsoft Azure
10. SAP on Microsoft Azure
11. Threat Protection
12. Windows Server and SQL Server Migration to Microsoft Azure

Capgemini also holds the following Microsoft memberships:

- Dynamics Inner Circle Member 2021/2022;
- Azure Expert Managed Services Provider (MSP).

11 Sub-contractors

Capgemini UK may use the following subcontractors to deliver this service:

- Capgemini Technology Services India Limited.

12 Business Continuity and Disaster Recovery

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

13 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.

14 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.

15 Termination Terms

Please refer to the Supplier Terms for this service.



16 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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