

Agile DevOps CI/CD Services G-Cloud 15





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1 Service Overview

Sogeti (part of Capgemini) provides comprehensive services to oversee and assist in the implementation, and optimisation of the elements in DevOps Transformation.

Sogeti's offerings facilitate the transition to a collaborative, integrated and efficient continuous delivery pipeline, harnessing the advantages of Continuous Integration, Automation and Continuous Testing.

Through Sogeti's solutions, we empower organisations to realise the advantages of DevOps principles while mitigating risks to brand reputation and user experience.

2 Business Need

Business agility and business speed to market is linked to ability of IT provisioning:

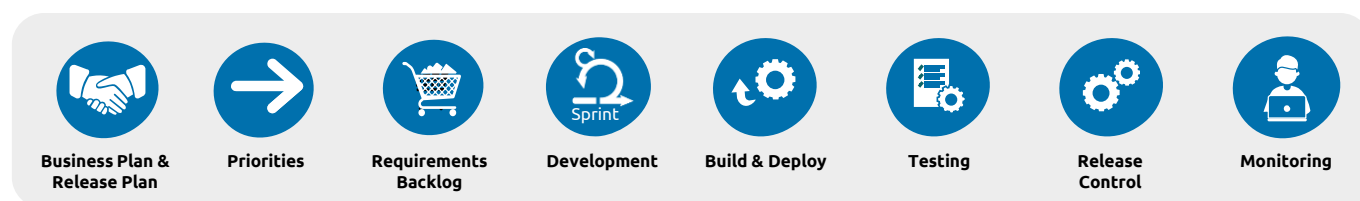
- Monolithic legacy systems and lengthy release cycles often impede an organisation's ability to quickly adapt to new business processes because it is still common for releases to be done quarterly or even only twice a year
- Newer and more nimble solutions provide faster ROI through operational improvements
- Agile methods deliver usable product to market in smaller faster increments and reduce risk by identifying issues earlier in the lifecycle
- Lean processes and advanced automation tooling empower organisations to adapt to changes at a previously unachievable rate
- Future advancements in testing include the incorporation of artificial intelligence and predictive analytics that will allow even further improvements in automation of delivery

By adopting DevOps an organisation can improve the value delivered by its business. DevOps is based on two principles:

- Collaboration and industrialisation leveraging highly automated approaches to deploy solutions that evolve as fast as the business needs it
- A team centric ethos that tears down traditional silos to tightly integrate business, development and operations to drive agility and service delivery excellence across the entire lifecycle

3 Our Approach

3.1 Implementing a DevOps Quality Approach



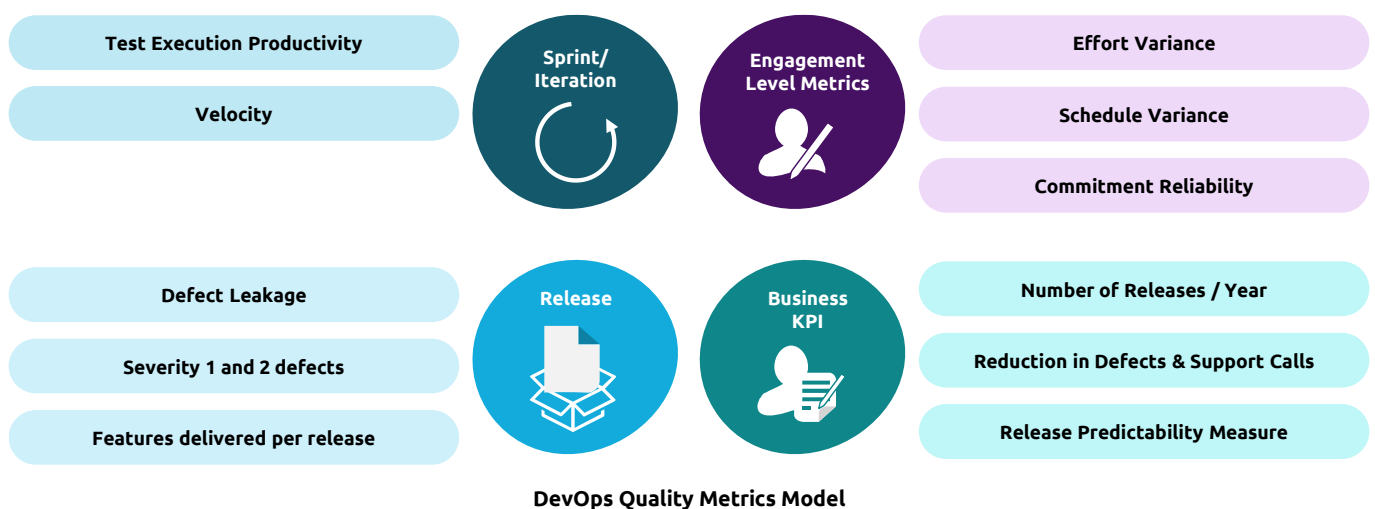
DevOps Quality Approach

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An integrated DevOps Quality Approach is based on seven key principles which Sogeti can help Buyer to adopt:



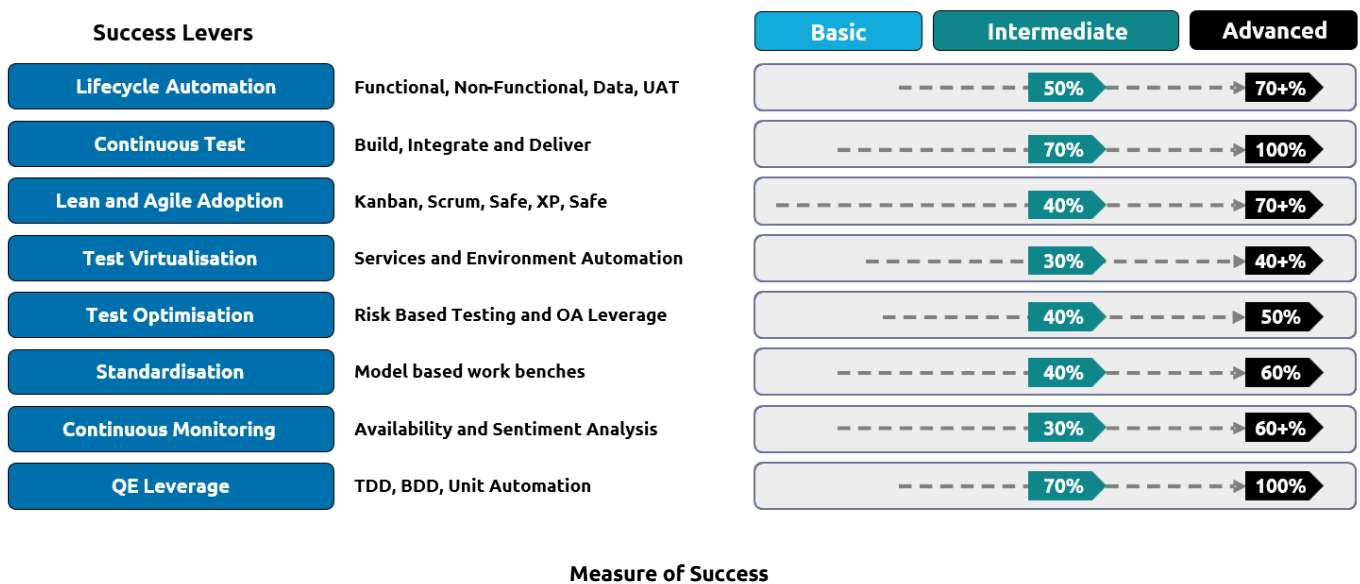
1. **Continuous Testing and Continuous Quality Monitoring** are completely connected to the continuous development, continuous build, and continuous deployment process.
 - a. **Zero Touch Continuous Testing:** A fully automated process for testing is in place, covering all steps of the test process: from test strategy, test planning, test case generation, test environment set up, test data provisioning, to test execution and covering functional as well as non-functional testing aspects (especially performance and security). Quality Analysis tools are used to switch on and switch off validation checks with a push on the button. Newly defined/created quality validation checks are automatically absorbed in the full available set of quality checks. The test and quality checks are focused on essential functional operations, performance, security and ease of use.
 - b. **Continuous Quality Monitoring:** The actual quality level of applications is continuously monitored based on instantaneous visibility of production incidents and user reports.
2. **Continuous Deployment driven by TDD (Test Driven Development) and BDD (Behaviour Driven Development).** These methods enable a common shared understanding of the expected operations and functionality of the application among all team members (users, developers, testers and operations). By extending these descriptions with priorities and potential risk identifications, they can be used as input to automatically generate test cases.
3. **Quality is everyone's responsibility.** At each step in the DevOps cycle, team members execute quality checks. At continuous build, the focus is to validate whether this build could break operations. At continuous development the focus is to validate functionality and usability. At continuous integration, the focus is to validate performance, security and usability.
4. **Clear understanding of priorities and potential risks to customer value and business performance.** The quality ambition of DevOps deployments must be targeted at the level "good-enough". Pre-requisite is an agreed and commonly shared vision on risks that are acceptable and risks which cannot be taken with a deployment. The agreed priorities and identified risk areas are the common starting point for all team members. A priority/risk charter per application which is automatically updated based on Buyer and end-user feedback is used to enable this. Predictive analysis from combined logging of historical project and deployment data-facts with actual quality monitoring scores is used to automatically identify the risk and focus areas of test and the selection of the appropriate test cases.
5. **Quality Indicators per application.** Per application, there is a defined set of measurable quality indicators with pre-defined targets. The standard quality indicators cover four aspects: purpose, ease of use, performance and security. This standard set can be expanded depending on the specific objectives of an application. The operational scores of the quality indicators are monitored continuously based on the production incident reports and end-user feedback. Meeting the quality KPI's is a shared responsibility for all team members.



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6. **Flexible quality coverage decision:** For each DevOps deployment cycle, the appropriate quality validation checks and test cases area defined and/or selected based on objective rules and with help of predictive analysis tools.
7. **Implement metrics to manage QA efficiency:** A small set of metrics is used to manage the efficiency of Quality activities. These metrics cover four aspects: sprint/iteration performance (measured through Test Velocity and Test Execution Productivity); release quality (measured through the metrics: defect leakage, number of high severity defects, number of features delivered); engagement level (effort variance, schedule variance and commitment reliability) and business level, which is measured by number of releases per year, reduction in defects and production calls, release predictability). These metrics are continuously reported in a real-time dashboard.



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Key success factors (also known as competitive emphasis or strategic posture) state the important elements required for a company to compete in its target markets. In effect, it articulates what the company must do, and do well, to achieve the goals outlined in its strategic plan.

The key success factors to achieve DevOps Quality are:

- Lifecycle test automation
- Continuous testing
- Lean and Agile process adoption
- Test Virtualisation
- Test Optimisation and standardisation
- Continuous Monitoring
- Acknowledge the role of Quality Engineer

3.2 Sogeti Roadmap to achieve DevOps Quality

The Sogeti DevOps QBP approach can help to establish the baseline maturity, roadmap, and continuous process for improvement in DevOps maturity.

The Sogeti Roadmap to DevOps Quality can provide an integrated QA approach covering Continuous Testing to Continuous Quality Monitoring.



Sogeti can facilitate the Quality Engineering role required in successful DevOps teams and can assist in QA automation and QA environment and test data provisioning.

Sogeti's services can help manage the implementation and optimisation of these elements of the DevOps transformation. Sogeti services can help the transition to a collaborative and integrated continuous delivery pipeline by leveraging benefits of Continuous Integration, Automation and Continuous Testing.

3.3 Sogeti's Accelerators

3.3.1 Generative AI

Sogeti's Generative AI accelerator – Amplifier, augments product owners, architects, and quality engineers from the inception of requirements and infrastructure design to software testing, by forging a streamlined journey to execution.

Amplifier allows us to;

- Build a platform that covers all the use cases of Quality Engineering & testing from test case design to test reporting ensuring entire Software Testing Lifecycle is covered.
- Improves productivity for test case design and automation development.
- Point zero testing approach resulting in significant cost savings for testing.
- Eliminates person dependency making it more process driven.

Key Benefits include:

- **Streamline Team Collaboration:** Connect requirement engineers, product owners, and quality engineers with Sogeti's Amplifier ecosystem integrations such as JIRA, ensuring all disciplines stay in lockstep from requirements to release.
- **Accelerate Product development flow:** Facilitate rapid design validations for architects by translating discussion into Sogeti's Amplifier diagrams and data models, reducing time from whiteboard to development.
- **Optimise QE Processes:** Enhance test case creation for quality engineers with Sogeti's Amplifier TMAP – informed prompts, yielding thorough test scenarios that mirror real-world use without the need for deep manual effort.

3.3.2 End to End Quality Engineering Accelerators

Our accelerators for end-to-end Quality Engineering enable various areas of the end to end quality lifecycle

- **Requirement Mapper** accelerates the manual test design process by using the Model Based Test design technique.
- The **Automation Feasibility** analyser provides an upfront view on automation feasibility of manual test cases. This provides you with clear insight on what the benefit and ROI of automation will be.
- The **Test Script Generator** generates test scripts in an automated fashion by combining tags established in the Requirement Mapper
- The **Quality Engineering Maturity Modeler** is designed to help assess the current level of Maturity of the organization in their DevOps transformation journey, Performance Engineering Assessment, Test Data Management (TDM) and Test Environment (TEM) assessments.
- The **Automation Framework Chassis** provides ready to use CI/CD pipeline setup at the start of new projects.
- **Unified dashboard** generates near real time reports and actionable insights to enable rapid decision making.



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

Buyer-focused approach to delivery of information technology focuses on providing value to the Buyer and on the Buyer's relationship.

If Buyer has migrated to cloud but needs a capability to control of its newly modernised applications, things can get complicated very fast. Sogeti's managed Service Solutions are designed to solve that challenge.

Sogeti, which is part of the Capgemini Group, is one of 16 partners worldwide to be accredited as a Microsoft Azure Managed Services Provider (MSP) and its services help streamline operations with use of industrialised tools for effective Service Management and Service Delivery.

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.

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

Sogeti – the part of the Capgemini Group, is an award-winning company both globally and nationally. The below list presents companies' names that Sogeti has won series of awards with over the years:



2025 winners of Best Advancing Software Testing Practice, awarded to the team or initiative that has made a positive contribution to the software testing profession. This is in recognition of those that go above and beyond to make the testing industry or practice better. It means breaking down barriers, thinking beyond our employers or clients, and using our skills and knowledge for the betterment of the profession.

Microsoft, IBM, Intel areas of Testing, HPE, Oracle, Digital, High Tech related awards, ESRI S-GROUP, Delivery, awards related to technologies and solutions.



For the 13th year in a row, Capgemini has been recognized 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.

10 Sub-contractors

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

- Capgemini Technology Services India Limited.

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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