opentext™

Enterprise DevOps: Continuous Integration and Continuous Testing Services

Increase the quality and speed of application development and delivery with OpenText Professional Services.

DevOps Services at a Glance:
Whether you are starting with DevOps or scaling it to your entire enterprise, our DevOps service offerings can help. Our advisory, implementation, and management services drive greater adoption of the right skills, processes, technology, and culture. With our unique Operating Model, we can help you get your strategy right and continuously improve your KPI management.

DevOps is gaining traction globally because IT organizations recognize it as the best way to deliver value faster, reduce risk, and achieve great outcomes for both the organization and its customers.

Many organizations are now looking to move beyond their initial footprint, but adopting DevOps across the board and scaling it to the enterprise level is not just "doing more of the same." DevOps spans the entire IT Value Chain and finding the best starting point can be a challenge, as is driving adoption of the necessary changes across technology, process, culture, and overall mindset.

At Professional Services, we have helped many customers succeed with a "think big, start small" approach. This approach uses our OpenText™ Enterprise DevOps Point of View to set the vision, and starts the implementation where you can make the biggest impact in the shortest time: Continuous Integration and Continuous Testing.

Overview
OpenText™ Continuous Integration and OpenText™ Continuous Testing Services enable organizations to increase the quality and speed of application development and delivery through:

- Best of breed (OpenText™, third-party, and Open Source software) technology stack

- Our DevOps Model Office reference architecture and implementation
- Our DevOps Operating Model that holistically considers best practices including process maps, how to drive adoption and cultural change, roles and responsibilities, key performance indicators (KPIs), and Scaled Agile Framework (SAFe) alignment

We know that each customer is unique, so we combine all these elements to define the framework and solution that work best for you. Both Continuous Integration and Continuous Testing services employ the same overall approach:

- Assess your current maturity
- Develop a prioritized roadmap of activities, clearly identifying quick wins as well as mid- and long-term initiatives
- Accelerate implementation using Model Office as the reference point
- Coaching to implement acceptance and adoption of DevOps practices, processes, and tools
- Drive continuous execution, in line with the roadmap

Getting More from Your Software Investments
We recognize that you may have already made investments in your tooling. We help you get more out of your investment with a best of

breed solution. Our DevOps Model Office provides pre-configured integrations, using our Common Integration Framework, between OpenText products (such as OpenText™ Application Lifecycle Management Octane, Codar, OpenText™ Mobile Center and OpenText™ Performance Center) and your third-party and Open Source tools (like Jenkins, Bamboo, Chef, Puppet and GIT), including ChatOps and security.

Continuous Integration Service

Continuous Integration is a practice that requires developers to check-in code to a shared repository several times a day, where it is verified by an automated build. This allows teams to detect problems early in the application lifecycle.

OpenText™ Continuous Integration Service implements these principles and helps you to:

- Develop a common approach and integrated platform for IDEs, source control, build, testing, and deployment
- Improve code quality techniques such as static analysis, code decoupling, and unit testing
- Develop an end-to-end Continuous Integration process: from check-out, through unit testing, to build and deployment
- Rapidly provision and de-provision development and test environments
- Support traditional, mobile app, and microservices-based applications
- Improve—through coaching—your agile practices (especially Scrum- and SAFe-inspired approaches)
- Use ChatOps to improve collaboration, quality, and feedback capabilities

Benefits

- Improve agility and quality by increasing collaboration, feedback, quality, and velocity, resulting in direct economic and user experience benefits
- Improve productivity by focusing on new features and innovation rather than debugging builds and refactoring code
- Reduce risk by instituting Continuous Integration at the beginning of the DevOps journey, to immediately decrease risk of defects and negative customer experience
- Secure your applications by integrating security testing into your development lifecycle

Continuous Testing Service

Continuous Testing is the practice of executing automated tests as part of the software delivery pipeline, to obtain immediate feedback on the business risks associated with the software release. It requires developers and testers to work together to improve the overall quality of the entire product. It augments continuous integration as it allows teams to scale work volumes and process more changes without compromising quality. OpenText™ Continuous Testing Service implements these principles and helps you to:

- Accelerate testing by establishing a collaborative test-driven approach of writing tests before code is ready
- Improve traceability by linking test assets to code, requirements, defects, and builds
- Adopt and improve automated testing capabilities across unit, functional, regression, performance, and security testing
- Use network, service, and data virtualization technology to shift testing left
- Integrating the overall test process with development, build, and deployment
- Use targeted change impact regression testing

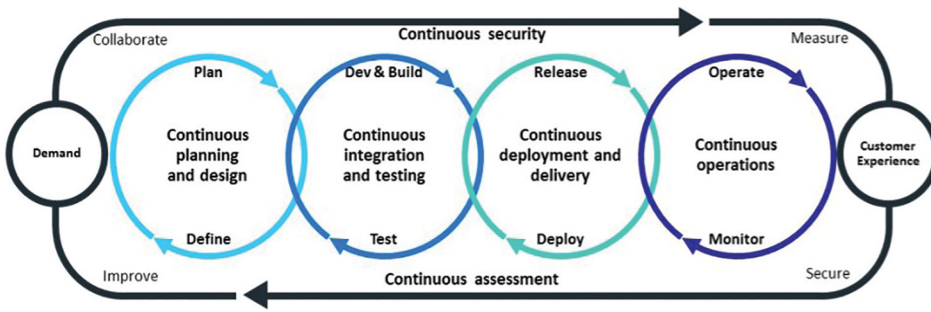**Figure 1.** OpenText DevOps Operating Model

Figure 2. The OpenText DevOps framework with Continuous Integration and Continuous Testing

- Focus manual testing on exploratory and investigative testing

Benefits

- Increase agility by ramping up test velocity, coverage, and efficiency
- Reduce the cost of development through early defect detection
- Eliminate traditional testing challenges with feedback loops across the application lifecycle
- Accelerate new feature deliveryand reduce development costs by includingcontinuous testing as a core step at the start of the DevOps journey

Adoption of the DevOps Mindset and Approach

Analyst research suggests that among the biggest challenges facing enterprises wanting to adopt and scale DevOps are people and process. Resistance to change, skills gap, failure to collaborate, and process design—or even the misconception that DevOps teams do not need to have any process discipline—are just some of the issues. DevOps is transformative, and you need to invest time and money in the people and process aspects accordingly.

Our proven methods for managing change help you overcome resistance, drive adoption, and ensure that your DevOps success is not thwarted by these challenges.

The Professional Services Difference

Professional Services provides unmatched capabilities with a comprehensive set of Enterprise DevOps consulting and implementation services and unique intellectual property that help you accelerate innovation and deliver high-quality applications faster. We bring:

- Market-leading technology
- Unique DevOps Model Office reference implementation
- Global reach with practitioner-level experience in implementing DevOps tool chains within complex organizations
- Expertise in OpenText tools and their practical application for DevOps
- More than 20 years of experience helping large, complex, global organizations realize value from their OpenText investments
- Knowledge, expertise, and experience in managing change for transforming organizations
- Best-of-breed tool frameworks for continuous integration, testing, delivery, deployment, operations, and assessment
- Extensive educational services for Enterprise DevOps, Scaling Agile Framework, and Application Lifecycle Management
- Only OpenText™ Professional Services brings together the consulting expertise and an industry-leading DevOps software platform to help you break down silos, encourage collaboration, and increase quality and speed of application development and delivery

Learn more at
www.microfocus.com/devops-services

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