



Continuous Testing: Keeping QA Relevant in the DevOps Journey

Automation is the Foundation

Ensuring quality is not a simple task. Most companies have a set of standard test types that, in a perfect world, would be executed. It is common to find that many of these are still manual steps today. Additionally, new test types are being introduced, such as API, security and performance, that add complexity. Finally, expectations for more frequent releases have raised the need to push through test cycles more repeatably. As a result, handling test steps manually is becoming more and more unsustainable and automation is a necessity. Deployments must be faster and occur more often, with increased quality.

Creating Production-Relevant Environments to Add Confidence in Testing Outcomes

While automation allows for rapid, continual testing cycles to begin to match the overall DevOps cycle requirements, it does not fully enable transformational speed improvements. Creating the ability to dynamically spin up and tear down testing environments increases consistency and significantly reduces the potential for blockages or constraints as resources fight for environment availability.

Refactor How You Test with Continuous Testing

Automating the old test flow from start-to-end and having ephemeral environments available on demand provides maturity to the QA process. But, we can do more. We must question and re-factor the overall QA process orchestration to maximize the velocity heights that can be reached.

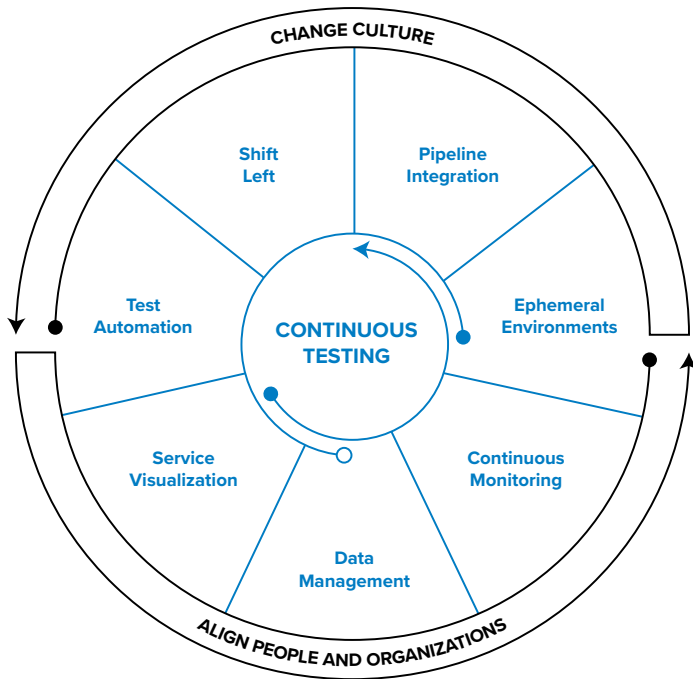
Continuous Testing is central to achieving Fast, Predictable, Quality DevOps

Are agile cycles increasing your release frequency for delivering features? Are business pressures accelerating the speed and expectations for how fast new features are released into production? Continuous Testing can help you meet and exceed this new high-speed reality.

Is your testing stuck at the end of the development cycle and often short-changed due to time overruns earlier in the lifecycle? DevOps is changing when, how, and how often testing can be done. Continuous testing is enabling a true “shift left” for testing elements and providing agility for how those testing elements are accomplished.

Continuous Testing Helps QA Keep Pace

To meet the modern demands for faster cycles, QA must move towards a continuous testing footing, enabling testing to be executed throughout the lifecycle in an integrated and automated fashion. The solution requires technology and process changes, as well as people and cultural changes.



Continuous Testing Includes:

- **Shift Left:** Key to moving testing to earlier in the lifecycle and pipeline.
- **Test Automation:** Automation is critical to meet faster cycle requirements and maintain confidence and quality.
- **Pipeline Integration:** Maturing DevOps means properly fitting QA into the life cycle and tool chain to connect traditional silos.
- **Ephemeral Environments:** Building ephemeral environments that can be consistently, quickly and cost effectively spun up and torn down.
- **Creating production-relevant environments:**
 - **Test Data Management:** Virtual, masked, production quality data
 - **Continuous Monitoring:** Monitoring throughout the lifecycle and environment stack
 - **Service Virtualization:** Virtualization capabilities, allowing test to execute regardless of availability
- **Change Culture:** Changing the way people think at every level of the organization, the way people are connected, and the way they work.
- **Align People with Organization:** Shifting responsibilities and empowering many teams and individuals to contribute to the quality of delivery.

Need to start your journey to Continuous Testing?

No matter where you are on your Continuous Testing journey, we can help drive you forward with a pragmatic roadmap and high-quality delivery that will help your organization maximize quality while keeping pace with today's business requirements. The outcome? Better alignment with business goals today — and greater resilience for technology evolution in the future.

The Orasi Difference

Orasi is a DevSecOps innovator enabling the acceleration, delivery, and adoption of software applications and cloud infrastructure through automation. Orasi's services and solutions offer full lifecycle support and integration to ensure quality, security, and scalability of transformative applications.



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678.819.5300