

End-to-End Software Quality Platform for **AWS Based Systems**

Solution Brief



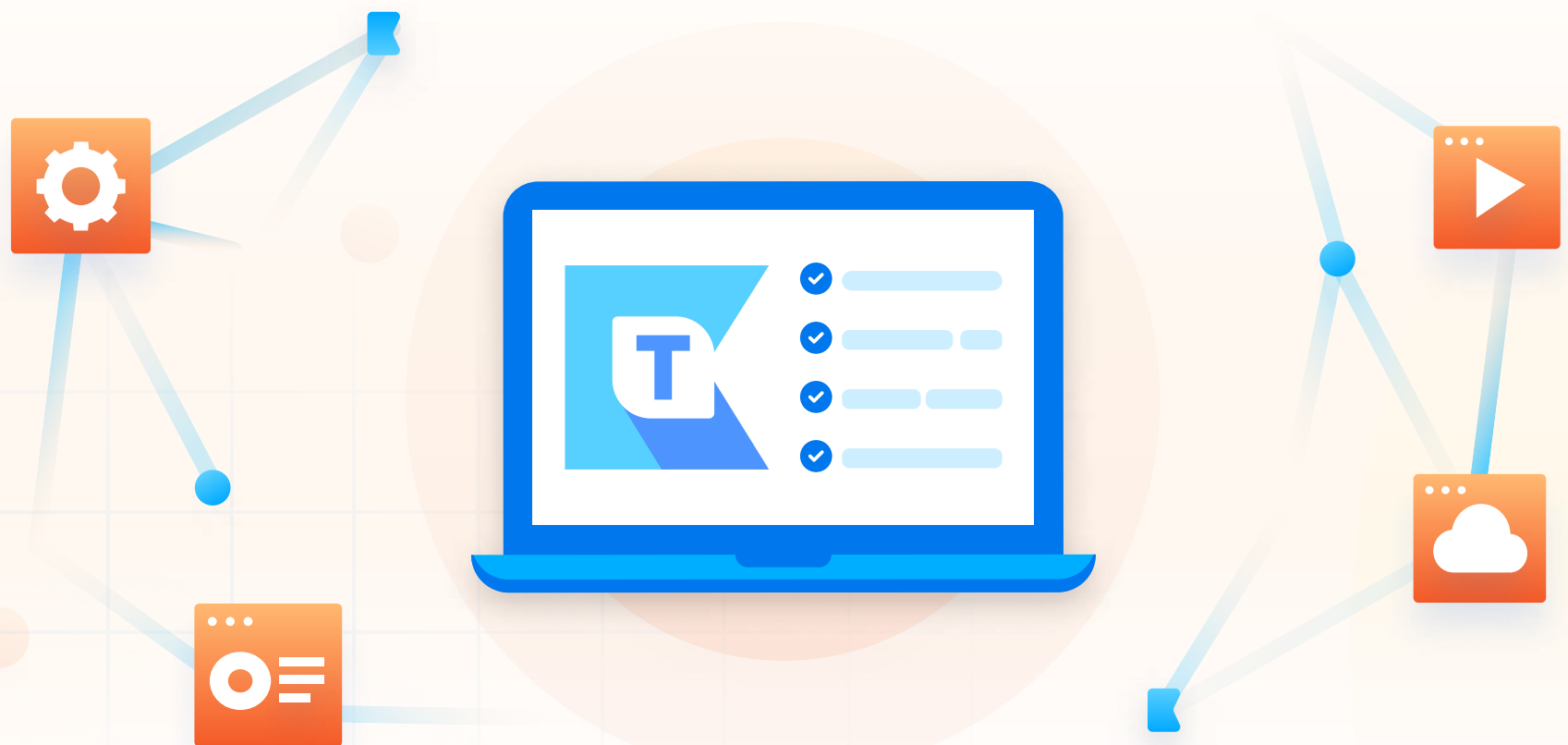
Superior customer experience is the definition of business success in the digital age. Onto the journey of becoming a market leader, the adoption of cloud and DevOps has been a popular technology measure among top firms. The DevOps principles allow software deliveries to be agile to market conditions by reducing infrastructure complexities and the time and cost required to manage them.

This brief discusses how pairing Katalon TestOps and AWS-based systems streamlines: Quality engineering on web, mobile, API, and desktop applications; both on-prem and cloud-based.

Native integrations with in-house, partner, and third-party systems.

AWS provides a number of application development services that act on user-defined release process models. Developers can securely do version control and implement automation throughout the build, test, and deployment phases on either AWS cloud or on-premise environments. The core of such operations comprises of:

- **AWS CodePipeline:** automates continuous integration and continuous delivery workflows.
- **AWS CodeBuild:** compiles source code and creates deployable packages.
- **AWS CodeDeploy:** automates deployments to AWS EC2 or to other on-premise production servers.
- **AWS CodeStar:** provides a unified interface to centralize and setup development activities.



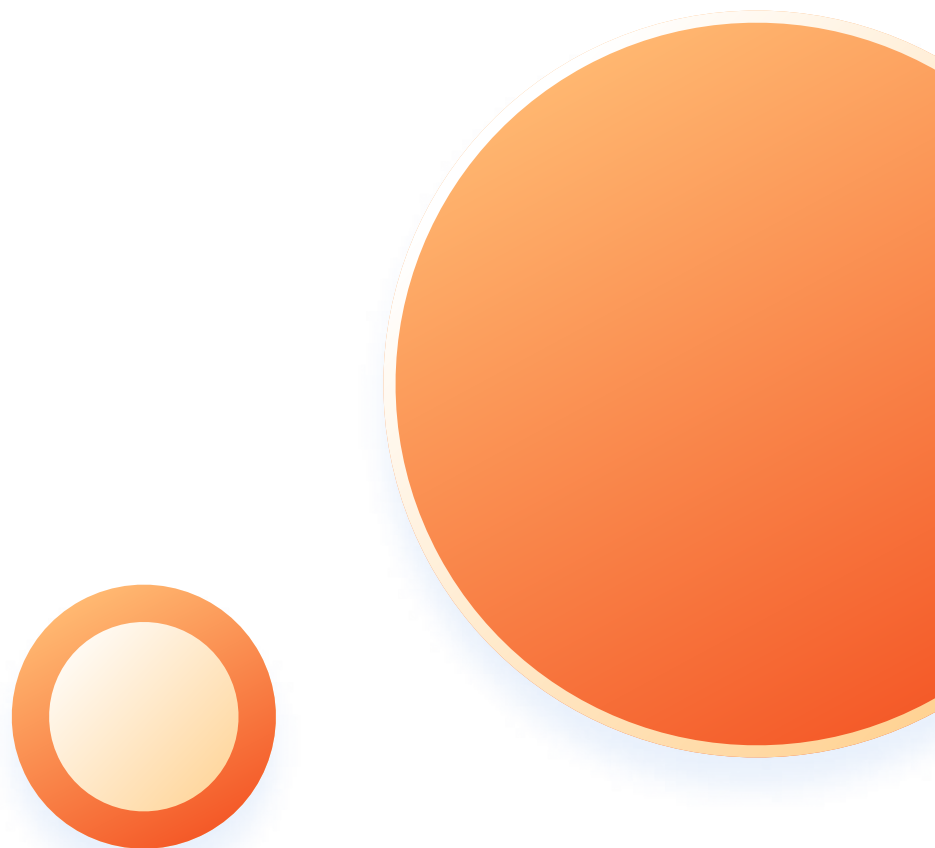
Beyond specific services for release pipelines, AWS also addresses other development needs such as identity and access management (IAM), workflows, and databases.

AWS is the full-fledged ecosystem to keep developers equipped. For QA teams, the testing responsibilities that go in conjunction with development activities remain, ensuring that critical requirements are tested and the production version has the least number of defects.

Proper functionality and performance testing go a long way. Whether your business is migrating applications and their backend systems to AWS or developing AWS-native software, the customer-facing product needs to operate as designed.

Within your application's architecture, optimizing the operations between multiple compartments like identity and access management (IAM), databases, and testing results is imperative. Over time, the amount of data exchanged from one software to another can be a real issue without proper management.

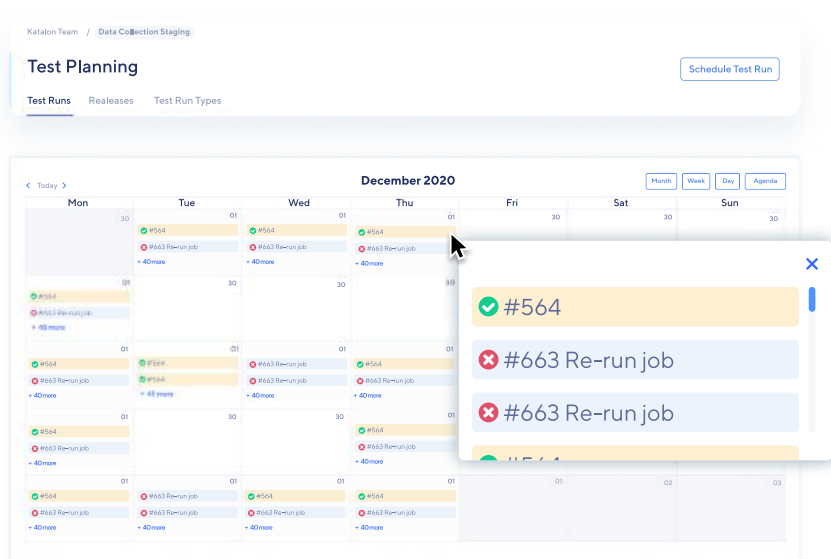
Furthermore, adopting an orchestration solution that pulls data across development, testing, and DevOps activities is much needed for modern quality engineering initiatives and AWS-based solutions.



The Katalon End-to-End Software Quality Platform can help you with your AWS initiatives. Applications consuming AWS services for web, mobile, and desktop can be tested alongside self-created or third-party APIs. The Katalon Platform will be used as a low-code test automation solution or as an advanced testing IDE with features such as accurate object spying, self-healing, and smart wait.

Our solution offers hundreds of keywords to reduce the time to develop automated test cases and your own custom keywords specific to your own AWS environment.

Following the Page Object Model (POM) design, test cases and test codes can be reused across AWS projects and lessen the maintenance work. By creating your AWS environment-specific global variables, you can easily manage test scripts in different development stages.

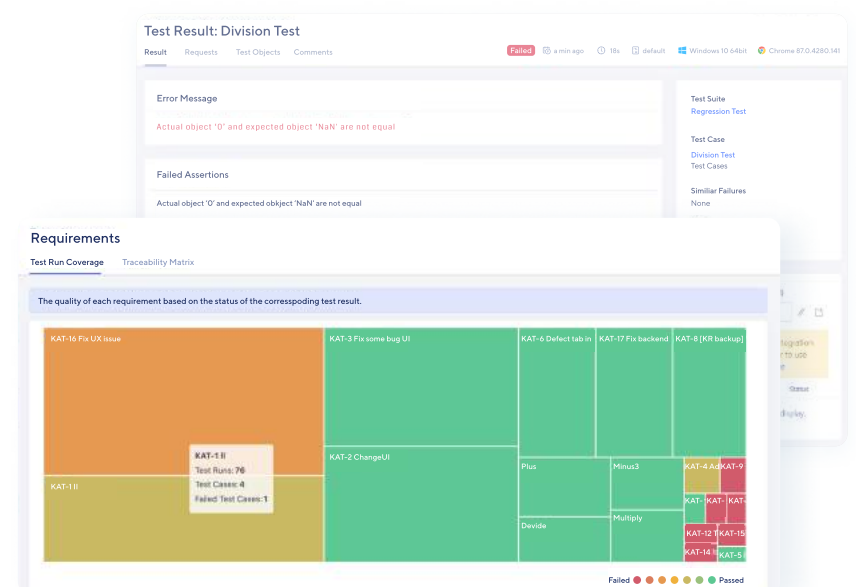


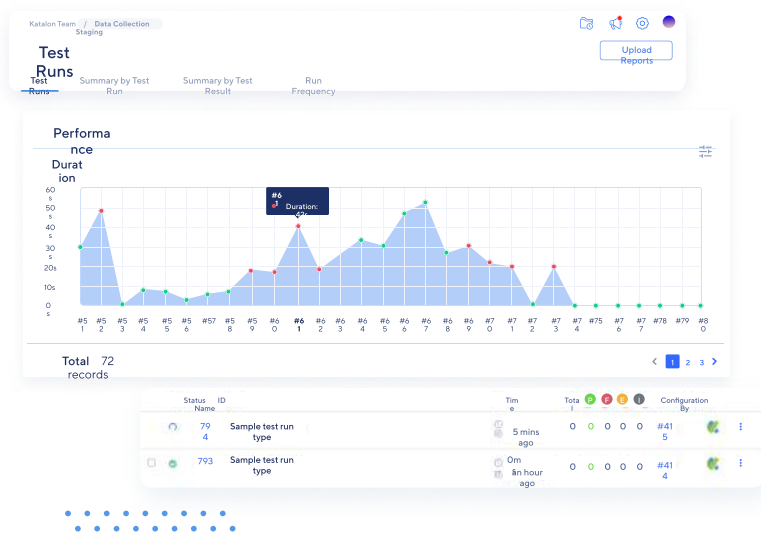
TestOps is the test orchestration center in Katalon End-to-End Quality Platform. Hosted within AWS, users can manage all requirements, tests, and defects in one place and provide full visibility to the entire team. Stay on the same page with comments, dashboards, KPI tracking and results analysis that is actionable.

Map your AWS project requirements and milestones to specific test cases and package them as test suites across different frameworks and environments. Such effective planning mechanisms maximize server usage, improve environment coverage, and ultimately increase your ROI.

TestOps **optimizes large-volume test executions** through parallel testing and scheduling. Whether on your CI provider or local machine, TestOps allows you to execute on multiple browsers, platforms, and devices all at once without CPU spikes.

Leverage out-of-the-box reports for quality, coverage analysis, test flakiness, and dashboards to report on the metrics that matter most to your business.





In terms of integrations, TestOps **natively works with:**

- Test automation frameworks (e.g., TestNG and Jest).
- Application Lifecycle Management (e.g., Jira and qTest).
- Communication platforms (e.g., Slack and Microsoft Teams).
- Test environments (e.g., Kubernetes).
- CI servers (e.g., Azure DevOps, AWS and Github).
- Third-party and custom dashboards through SDK and REST APIs.

To further assist developers and team leaders on getting feedback fast, alerts and test results are customizable. Anyone on the team can view testing statuses, receive reports through emails and assess release readiness based on defined conditions and thresholds.

Katalon TestOps and **Studio** are essential to your application development journey because they have all the features required for effective test orchestration, quality management, and comprehensive test automation.

With an open architecture and extensive APIs, the Katalon Platform works with AWS CodePipeline, cloud services, on-premise initiatives and other essentials in software development.

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