

HOW DELPHIX AND NEOLOAD CAN HELP YOU AUTOMATE YOUR QUALITY GATE

Most of organizations are trying to deliver frequent releases to provide the right support to their customers. In order to guarantee stable and valuable applications, enterprises have adopted a testing process that starts early, directly within development, and continues through to final deployment in production.

The various channels of communication (mobile, browsers, web TVs, IoT), and the cloud revolution have made the way we design applications significantly more complex. Performance has become one of the main pillars to the success of the application. Performance testing is only about simulating a production situation against the application. To make sure that the results are relevant, the volume of the dataset is one of the most important points of performance testing.

Moreover, data volumes are constantly growing: data is spread across multiple systems and locations, and 'data consumers' like testers need to access, narrowing the time gap between the business event and their test plans. With NeoLoad and Delphix working in tandem, projects have the right performance platform to validate the quality of each build by running realistic tests with the right dataset. Data is the secret sauce to generate efficient and realistic tests, but data is complicated and expensive to manage.

Why NeoLoad?

NeoLoad is the load testing solution that focuses most of the features on helping performance engineers save time. With the help of the following features, organizations would be able to fully automate and give visibility to all the stakeholders:

- Automatic script maintenance
- Selenium converter
- The NeoLoad dashboard accessible with one click
- NeoLoad metrics exposed everywhere with the various NeoLoad plugins

Why Delphix?

Delphix, the industry leader in DataOps, accelerates digital transformation for global enterprises. The Delphix DataOps Platform combines enterprise-wide data coverage with data compliance to:

- Enable modern CI/CD workflows
- Accelerate the journey to the cloud
- Ensure compliance
- Transform customer experiences
- Increase the adoption of disruptive AI technologies

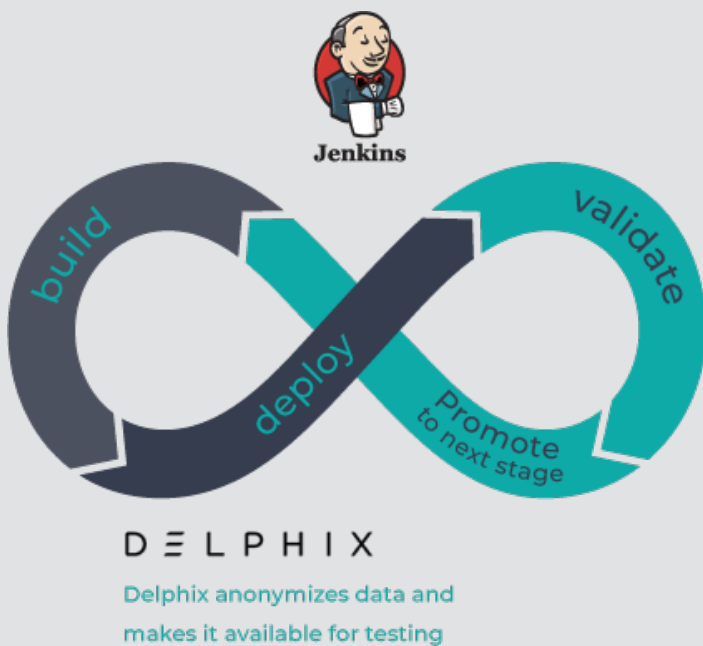
In a world where every company is becoming a data company, Delphix provides a critical platform to enable data-driven transformation.

Why you need to combine NeoLoad and Delphix when you run regression tests

In order to deliver relevant performance testing without impacting the cost and the deadline of the project, performance engineers need a solution that will:

- Provide real productivity
- Expose the indicators in various platforms
- Guarantee that the dataset is always up to date

When running tests from a CI/CD process aimed to detect regressions, therefore it is mandatory to make sure that we are always testing under the same conditions (same data, same infrastructure, same volumes...). How could we make sure that every regression test is running under the same conditions?



Stage 1: Build

Once a developer commits a change on the application, a build process can be automatically triggered that would:

- Checkout the latest code
- Run the various unit tests
- Build the binaries of the application
- Deploy the application on the target environment

Stage 2: Deploy

Once the application is deployed, several validation mechanisms will secure the quality of the release. Every type of automated test requires a predefined set of data. Delphix ensures provisioning fresh (real data from production) datasets that are masked to eliminate all sensitive data and make the dataset available for the target environment.

Stage 3: Validate

Once the application is stable (no functional exceptions on the major business processes), the quality gate would need to prove that the current release has no performance regression. The build process will then run and deploy more significant data for the load test. Once the data available, CI/CD process will trigger the automated load test.

Stage 4: Promote

Once one single component has been properly validated, the CI/CD process will go to the next stage: integrating several components. The second cycle will be quite similar but focus mainly on detecting issues related to integration. The datasets involved in the tests are larger and include more scenarios, and test cases are more complex. The next stage is a test in a full application ecosystem, then a pre-production stage and finally deployment and running the application in production. *At each iteration you need to run your tests multiple times, compare results, and take a 'snapshot' of your results.*

With the productivity and the ease of use of NeoLoad and all the features of Delphix, this complex process can be easily implemented. Data is expensive to create and to update, but Delphix easily allows you to have the right data for the right stage with a fully automated process.

This is where NeoLoad and Delphix provide huge value, by structuring solid test plans that guarantee all business requirements are covered, with consistent versions of data that can ensure super-fast test runs, with identical initial conditions, storing all results for in-depth comparison analysis.