

HOW DYNATRACE AND NEOLOAD CAN PROVIDE DEEPER, MORE EFFICIENT LOAD TESTING RESULTS ANALYSIS

When NeoLoad and Dynatrace work together, projects have a unified performance platform validating the quality of each build. The value of this complete solution recipe is straightforward: with Dynatrace’s analytical prowess and NeoLoad’s easy load testing capability, you can anticipate risk situations, take action quickly (before going into production), and release with confidence.

The traditional Performance Tester used to configure the monitoring of their performance testing tool. In today’s world, monitoring alone does not adequately provide the level of detail required for developers to be able to address performance bottlenecks as they had in the past. As a result, APM has become an important weapon in the Performance Engineer’s arsenal – producing details requested by developers, including in-production app usage visibility.

WHY NEOLOAD?

The NeoLoad performance testing platform is designed to help today’s performance engineers and developers save time. With advanced capabilities such as automatic script maintenance, Selenium conversion, and one-click dashboard accessibility (where shared metrics are displayed in Dynatrace), organizations are now able to fully automate, provide visibility, and easily share with key stakeholders across Dev, QA and Ops.

WHY DYNATRACE ?

Dynatrace includes the artificial intelligence needed to detect the performance issues and their origin. The natural synergy between NeoLoad & Dynatrace is a logical association as Dynatrace receives data generated by NeoLoad during the test, enabling quick analysis of the problem. In addition, users benefit from other existing Dynatrace integrations - Jira, for example. When a defect is identified, Dynatrace is able to automatically generate a Jira ticket including all pertinent performance details related to the issue.

WHY IS A COMBINED SOLUTION IMPORTANT?

In an evolving market where expectations are at the crossroad of performance and quality, this solution allows Performance Engineers and project leaders to automate their performance tests without being impacted by the cost of analysis. It is also very useful for every tester/technical specialist who wants to be able to pinpoint a potential performance problem.

NeoLoad 6.3 includes enhancements to both NeoLoad’s native integration with Dynatrace, and a bundle of Advanced Actions leveraging the analysis of load testing using Dynatrace’s OneAgent.

- **DynatraceEvents**

- Links a load testing event to all services used by an application monitored by Dynatrace

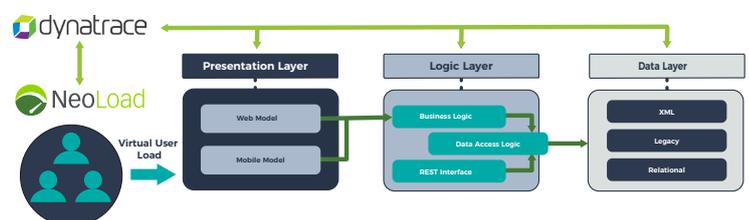
- **DynatraceMonitoring**

- ***Inbound from Dynatrace to NeoLoad:***

Retrieve Infrastructure and Services metrics from Dynatrace (OneAgent) and insert them in NeoLoad External Data so that you can correlate NeoLoad and Dynatrace metrics within NeoLoad

- ***Outbound from NeoLoad to Dynatrace***

Send the global statistics of the test to Dynatrace OneAgent so that it can be used as custom metrics in Dynatrace dashboards



These new features make it easier and more effective to interact with Dynatrace. The general use case is load testing an application while having Dynatrace deployed in the test environment. With that setup, testers can precisely analyze how the whole application and its ecosystem is behaving.

Web Request Tagging

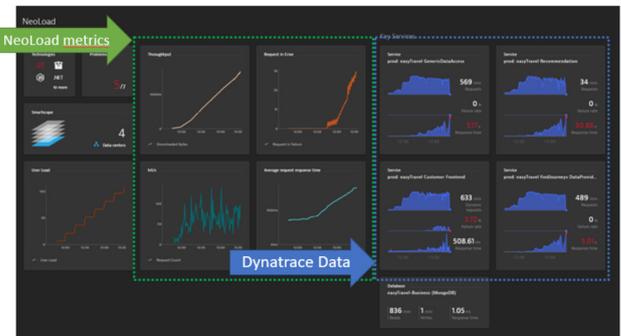
- Transaction name, virtual user, script name, unique ID
- Easy correlation between NeoLoad & Dynatrace. Once Dynatrace identifies the NeoLoad synthetic traffic, you can use some functionalities such as PurePath or Service Flow to identify your bottlenecks

Creation of Custom Event

- NeoLoad creates events on each service used by the application (E.g. front-end, middleware, back-end)
- Incorporated into test detail: NeoLoad scenario name, test/project name, NeoLoad Web link to result

Sending Load Testing Metrics to Dynatrace

- User load
- Hit(s)
- Throughput
- Average request response time
- Request in success/failure
- Transaction in success/failure
- Failure rate
 - Linked to NeoLoad web result
 - Dynatrace user creates dashboard with pure load testing metrics and details of application behavior



Data Retrieval – Dynatrace to NeoLoad

- NeoLoad automatically retrieves Dynatrace metrics within platform (includes all details associated with every service being monitored by Dynatrace)
- NeoLoad user analyzes directly

About Dynatrace

Dynatrace has redefined how you monitor today's digital ecosystems. AI-powered, full stack and completely automated, it's the only solution that provides answers, not just data, based on deep insight into every user, every transaction, across every application. The world's leading brands, including 72 of the Fortune 100, trust Dynatrace to optimize customer experiences, innovate faster and modernize IT operations with absolute confidence.

About Neotys

Neotys is a leading innovator in load testing & performance testing for Web and Mobile applications. It has 12 years of development investment into NeoLoad – the performance testing platform designed to accelerate Agile and DevOps processes. Built by engineers who recognized that in order to achieve their own Agile adoption objective, they needed to create a product that could facilitate superior load and performance testing continuously. The end result – up to 10x faster test creation and maintenance with NeoLoad.

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