



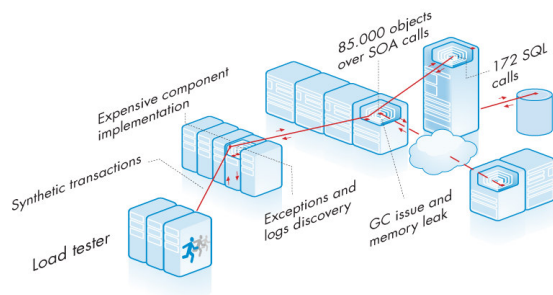
Test More Java/.NET-based Web Applications in Less Time. Rapidly Diagnose Performance Issues.

dynaTrace Test Center Standard Edition

dynaTrace Test Center Standard Edition is a cost effective Java/.NET diagnostics solution for performance testers and engineers that integrates with major commercial and open source load testing solutions, such as LoadRunner, SilkPerformer and Visual Studio Team System, to automate and accelerate the process of documenting, isolating, analyzing and resolving performance issues in Web applications occurring under load. Using its patent-pending PurePath transaction tracing technology, dynaTrace provides in-depth visibility into the performance of each individual transaction of virtual users in large load tests of highly distributed applications. It requires zero configuration allowing even non-Java/.NET experts to precisely isolate most common performance bottlenecks. It accelerates the entire problem resolution cycle by more than 90% and significantly reduces the number of required test cycles, allowing more time to be spent on strategic development and test activities.

PurePath Technology: Diagnose root-cause in minutes

The core of dynaTrace is its award winning, patent-pending PurePath Technology. It integrates and extends your existing load testing solution to trace Web requests from Virtual Users end-to-end into backend application transactions. PurePath makes transparent the inner workings of applications under load, automating issue documentation and isolation, as well as reducing problem diagnostics and resolution times to minutes. It provides a common dataset that can be shared across testers, performance analysts and developers.



dynaTrace PurePath Technology

Tracing individual transactions

dynaTrace goes well beyond just recording data on aggregated transactions. Instead, it records the precise execution of Java/.NET transactions, uncovering all outliers. No extraneous information is included - only factors influencing the performance of a specific transaction are presented.

Real-time in-depth visibility

dynaTrace provides real-time visibility into the in-depth performance of application transactions starting at the end-user level - simplifying data interpretation. Besides pure performance metrics (response/CPU times), it also captures contextual data (e.g., method arguments, SQL bind and return values, exceptions/logs, etc.) necessary to uncover root-cause.

End-to-end across heterogeneous multiple tiers

Trace transactions end-to-end, even across globally distributed servers/tiers including rich clients, whether Java or .NET.

Low overhead, small footprint on target servers

dynaTrace automatically gathers PurePath data for **all** transactions in large load tests. All processing is done on the dynaTrace Server, reducing sustained overhead to 3-5%.

Shareable - provide interactive reports to engineers

Provide interactive code-level reports of problematic transactions to development without having to be a Java/.NET expert. Developers can analyze only the relevant data using a familiar format offline **without having to reproduce the issue**, whether they are working in-house, or at a remote location using the included dynaTrace Client or free Viewer.

DIAGNOSE COMMON APPLICATION PROBLEMS

Database access

Too many calls to the database, although the individual SQL calls are tuned well - e.g., caused by an improper cache configuration or an inappropriate usage of O/R mappers

Memory usage

Memory leaks, heavy GC activity and high memory usage causing stability, performance and scalability problems

Remoting/SOA overhead

High serialization costs due to (un)marshalling of complex data structures, inefficient serialization strategies or an improper remoting technology; chatty application components; network latency issues due to improper network configuration

Exception/Log discovery

Application failures caused by silent exceptions or indicated by log messages that are invisible to load test tools ("Return: HTTP 200") and out of context in a distributed transaction

Automatically document and isolate problems

Testers automatically capture PurePath transaction data during load tests, making manual documentation of performance problems obsolete. As PurePath includes all the data required to diagnose the problem listed above it also eliminates the need to rerun tests with additional log-options.

