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Compuware QACenter Performance Edition



Confidence, Performance, Scalability

"Compuware's performance testing solution was the right choice to ensure our site's availability and scalability. We need to know precisely what levels of load our hardware and software can handle, and be able to zero in on key system problem areas. With Compuware's technology, we not only can understand that bottlenecks exist-which is where many other testing products stop-but we also gain the insight we need to fix the problems quickly."

- Jim Butkus, Senior Manager of Quality Assurance, Lycos

Creating production-ready applications

Applications play a crucial role in the success of any business. From in-house operations over a corporate intranet to interaction with customers and suppliers on the web, IT organizations are responsible for how applications perform. This is all the more critical in the increasingly competitive world of e-business, where your applications are your business.

You can't rely on guesswork. You need to know how an application will behave in production—how it will perform, respond or scale. But as environments become more complex, with the explosive growth of the web and the development of new ERP packages and client/server systems, predicting application performance is challenging.

The ideal solution combines thorough testing of scalability and responsiveness before a system goes live, realistic simulation of transaction and traffic usage patterns, and a snapshot of your system from the perspective of the user. It should be repeatable, automated and make minimum use of resources and hardware to accomplish the task.

If that sounds like too much to ask, it isn't. QACenter Performance Edition from Compuware provides all these benefits, and more. An automated load testing and server monitoring solution for today's e-business, client/server and ERP applications, QACenter Performance Edition helps pinpoint problems, optimize system performance and promote successful application deployment.



Compuware's integrated solution



QACenter Performance Edition is a truly integrated offering, combining tools for load testing, data management, resource utilization and performance monitoring. It not only tells you if there's a problem when 300 users log onto your web-based application at the same time, it tells you *where* the problem is, so you have a head start in finding a solution. And, it lets you baseline and re-create databases so testing is consistent and fully repeatable.

Emulate users prior to production

To deploy business-critical applications with confidence, you must have predictability. You need to know how the site or application will scale, what happens in peak periods and how to test all the complex variables in an e-business transaction.

Compuware's tools provide accurate and scalable load testing at the click of a button, simulating hundreds or thousands of simultaneous users. With manual methods, this task would be prohibitive in terms of time, resources and potential for error. In an automated process you can:

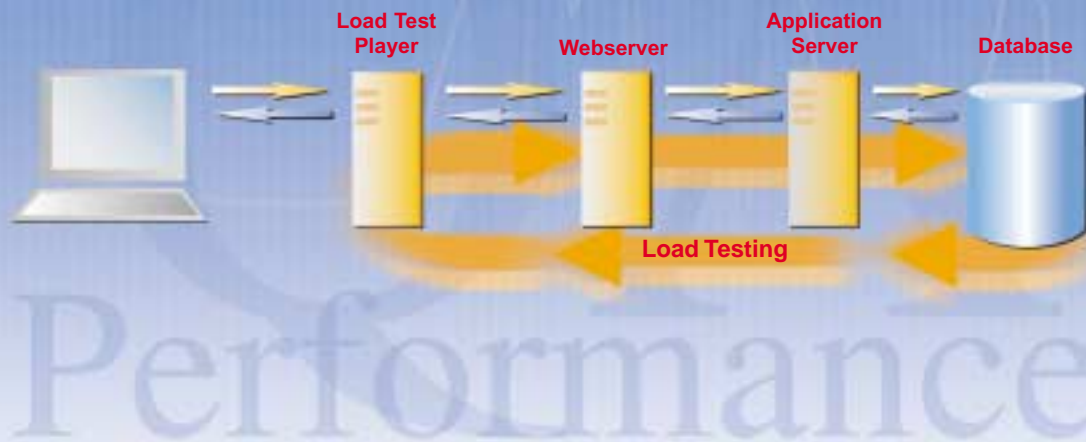
- simulate the environment in which the load test executes
- run large, accurate load tests using only minimal hardware resources
- accurately capture even the most complex applications, such as those involving multiple protocols
- simulate e-business transactions with features like modem speed simulation, user think-time and transaction throughput control.

Make testing fully repeatable

To improve performance and resolve production issues, you need a repeatable load testing process. For effective repeatable testing, however, it's necessary to reproduce test conditions and test data exactly.

QACenter Performance Edition includes a powerful data management tool which helps you to tune systems for optimal performance prior to production. You can:

- ensure data reliability throughout the performance testing process
- baseline, restore and manage underlying system databases
- create and re-create valid and accurate test data.



The QACenter Performance Edition solution offers the most accurate simulation of a production environment and the ability to run larger tests with less hardware.

Validate system availability and performance

Lack of sufficient advance information on application performance makes it difficult for IT managers to set appropriate system level agreements for in-house and external customers.

QACenter Performance Edition includes advanced server and application monitoring tools which give a detailed picture of application performance over an entire system. With these tools, IT managers can:

- pinpoint bottlenecks and determine the root cause of system failures
- establish achievable system level agreements
- improve system availability by planning capacity to meet future demands
- budget for system growth.

Centralize control of performance monitoring

With many far-flung system components—client/server, LAN, WAN, firewall, web server, application server, database server—monitoring application performance is a management challenge and a complex technical task.

Sophisticated features of QACenter Performance Edition help centralize the collection and analysis of system performance data.

- The ActiveAnalysis feature makes possible automatic correlation of information on test results, reported to a single point of control.
- The Conductor module lets you control load test and server monitoring functions from the same user interface.
- From Conductor, IT managers can define a load test scenario, the machines they wish to monitor and the characteristics to be measured, start and stop the process, and bring back all data for analysis at the end of the test.

- The easy-to-use reporting module allows you to overlay response time information with information on web server, database server and database usage, giving a full picture in one tool.

Support multiple environments

Today's applications use multiple tiers and a wide range of middleware, environments, databases and communications protocols. QACenter Performance Edition provides support for e-business, ERP and custom client/server applications with a single tool suite.

Protect your investment in mission-critical applications with a load-testing and performance monitoring solution that supports the majority of leading applications and architectures in today's market. Improve productivity by reducing the learning curve—give your developers one tool to support multiple applications.

Expertise when you need it

With rapidly changing IT environments and the shortage of well-trained personnel, not every development team has the full set of skills or experience required. When you need a consultative, committed partner to help conduct performance testing and monitoring, look to us. Compuware delivers the tools, the skilled testing professionals and the right level of involvement for your project's success.

Compuware can perform testing at your site or remotely; complement your existing applications and operations staff; or train you in the best performance testing methodologies and tools. No matter what your requirements, Compuware delivers flexible, creative thinking and superior insight into finding and resolving performance problems. When you need your own team of experts, Compuware can respond.

Compuware products and professional services— delivering quality applications

Compuware is a leading global provider of software products and professional services that help IT professionals develop, integrate, test and manage the performance of the applications driving their businesses. Our solutions enhance every step in the application life cycle—from defining requirements to supporting production levels—for web, distributed and mainframe platforms. Our services professionals work at customer sites around the world, sharing their real-world perspective and experience to deliver an integrated, reliable solution.

Please contact us to learn more about how our comprehensive solutions can help your organization improve productivity, create higher quality applications and speed time to market.

