



# Performance Services

AppLabs' Performance Services are designed to support the delivery of all types of IT software and hardware change, ensuring they fully meet the performance requirements for all key stakeholders.

Performance issues are traditionally difficult to identify prior to live operation of a new system but, when detected after launch, often involve costly remedial work. By using advanced testing services and tools, AppLabs can undertake realistic proving of your new systems in the development stages and provide important feedback to ensure problems are rectified at an earlier stage.

Once a new system is in live operation, performance continues to become a critical factor. We provide a bespoke

solution using our remote web load testing infrastructure, enabling you to select your performance test and quickly verify changes prior to implementation.

We also recognize that identifying problems only provides part of the solution. AppLabs' in-depth experience in technology development and testing ensures we can always identify the source of the problem and recommend a remedial course of action.

No matter what stage you are at in the lifecycle of your IT systems, AppLabs can provide performance services that optimize your systems' performance.



## Full Lifecycle Performance Testing

Despite the growing ubiquity of the internet, not all IT systems are customer facing or based on web technologies. Even if the internet is a major component of your IT strategy, many internet accessible and web-based systems are dependent on internal support services that are typically secured behind layers of your corporate IT infrastructure.

Performance testing even a single enterprise enabled application is never as simple as just applying a load to the system from the internet. In any large organization, there are shared services that form a complex mesh of support systems, each competing for various forms of common resources, such as network bandwidth, storage systems, databases and other technical capabilities such as internal proxies, DNS and LDAP servers, to name a few. This is where AppLabs' Full Lifecycle Performance Testing service can help.

Full performance testing is more than just load or stress testing. Performance testing can include tests of single user, concurrency, load, stress, resilience, failure, recovery, throughput and soak. Performance testing should not be just a testing stage carried out on a completed application or system. Performance testing is an activity that can occur during any testing stage, from requirements elicitation up to and including final acceptance testing.

Our extensive experience of providing performance testing services to the Forbes 2000 companies around the globe can help you plan, execute and analyze the performance testing of your software development products to ensure that performance related defects are detected as close to their point of origin as possible.

This is an advantage for any testing, where defects found earlier in the lifecycle cost less to fix, but it is critically important for performance related issues. It is widely accepted that functional defects not found early cost more to fix because of the additional effort required to identify

the root cause of the error. However, the root cause of performance defects can be deeply systemic in nature and may ultimately show that the wrong software or hardware architecture was chosen. This kind of defect is very expensive to remediate and is potentially a fatal weakness to the application or system under development. The earlier performance testing is started, the greater the likelihood of identifying fatal defects in the system and fixing them.

When the time comes to perform load testing on the complete system, prior stages of performance testing on the components that were used to build the system will engender confidence in the capability of the system to pass system and formal acceptance load testing. If the only performance testing the system is subject to is load testing as a final acceptance test, then it represents a serious risk.

AppLabs' Full Lifecycle Performance Testing service is designed to enable you to include performance testing across the development lifecycle, thus ensuring the delivery of the performance capabilities of the system.

AppLabs has over 100 performance testing consultants that can work with you to deliver your performance testing requirements. We work with a wide range of commercial and open source performance test and analysis tools.

Our engagement model is totally flexible; we can work with you onsite, on your own test, pre-production or production systems or we can develop a performance testing engagement model for you that combines onsite performance testing services, offsite performance execution in state of the art test lab environments and remote load testing over the web.

Whatever your performance testing requirements, AppLabs has a comprehensive solution.