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## Readiness Evaluation

# Certify the Performance, Scalability, and Stability of Your Site Before Going Live

*A Coban Performance Assurance Offering*

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### Overview

The Readiness Evaluation offering is designed to meet all of our customer's performance needs before they go live. We guide the customer through the capacity planning process, and help them determine their performance requirements and goals. We put their entire application stack through a series of stress, scalability, longevity, stability, and high volume tests to flush out any performance, scalability, and stability defects. Using the information we gather during our testing, we isolate performance related issues and perform in-depth root cause analysis, down to the method level to discover the source of the site's bottlenecks. Our Readiness Evaluation allows you to go live with confidence.

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### Value Proposition

> **Prompt Planning and Execution**

Coban will get deeply engaged with your team and make sure that all performance testing related tasks are properly planned and executed before your site goes live.

> **Root Cause Analysis**

When performance, scalability, or stability problems are discovered while testing your site, our team will perform the necessary root cause analysis to make sure the issues get identified and resolved quickly. Our ongoing involvement won't allow your performance and stability issues to languish, while your engineering team focuses on the functional aspects of the system.

> **Going Live with Confidence**

Too many times we've seen that clients fail to plan and test adequately for performance before going live. The downtime required after launch to address performance issues can result in significant revenue loss and higher costs to resolve them. Our Readiness Evaluation enables you to realize measurable improvements and go live with confidence. Proactively testing and measuring the performance of your site allows you to:

- Avoid loss in revenue;
  - Eliminate slow page response times and loss in productivity;
  - Ensure that your site will scale with increased user demand;
  - Ensure successful long-term website deployments;
  - Improve user adoption and satisfaction with stable and responsive sites;
  - Budget more accurately for hardware and software.
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### Service Description

> **Performance Assurance Workshop**

During the workshop, our team will meet with your business, IT, and infrastructure teams to get a better understanding of your site's performance requirements, use cases, architecture, and test environment details.

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## > Load Simulation Development

Our team will develop load simulations of all the relevant use cases defined during the workshop.

## > Infrastructure Testing

We run a series of load tests designed to highlight any bottlenecks in the environment that may hinder the site's performance and scalability. This will help uncover any issues in your application stack.

## > Baseline Testing

Baseline testing allows us to measure how your site currently performs and scales. We measure the throughput, response times under load, and how the site responds to increasing load.

## > Stress Testing

Stress testing allows us to measure the impact of high concurrency on your site. It is used to uncover a variety of serious I/O contention issues caused by factors such as overly synchronized methods, poor caching strategies, slow network connections, expensive DB queries, or slow web service calls.

## > Scalability Testing

Our engineers will place your site under load and measure the scalability of the system under increasing load, increasing number of nodes, and increasing number of CPU's to make sure that your site can take advantage of the hardware you've invested in.

## > Code Profiling and Root Cause Analysis

We don't just tell you that your site performs badly, we tell you why. During the baseline and stress testing phases, our team pinpoints the areas that don't perform. We then attach code profilers under load and determine the source of the bottlenecks down to the method level.

## > Longevity and Stability Testing

Our team will place your site under load 24x7 in order to flush out any memory or resource leaks that would otherwise not surface until the system was under load for a prolonged period of time.

## > Peak User Load Testing

Our team will load the system with the anticipated peak user load. While peak user loads may rarely occur, we'll make sure your system can deliver when needed.

## > Platform Tuning

After all of your performance and scalability bottlenecks have been fixed, our engineers will tune the operating system, application server, and other elements in the stack so that your site runs optimally.

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## ***Why Coban?***

Coban is one of the very few organizations in the world that has a dedicated Performance Assurance practice and has a stellar record of bringing performance improvements to its customers consistently. Let our team of engineers and architects tackle all of your performance and scalability problems. We have extensive experience and unparalleled expertise that allow Coban to effectively manage your performance and scalability goals and quickly identify the root cause of a wide variety of related issues in the system.

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## ***Estimated Duration***

Six to eight weeks.