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## Performance Audit

### Quickly Determine How Your Site is Performing

*A Coban Performance Assurance Offering*

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#### Overview

The Performance Audit is designed to guide our customers through their capacity planning process, helping them determine how many page views per second their site will need to deliver in order to handle the anticipated peak user load. We also quickly put their site through a series of infrastructure, stress, and baseline tests to measure how close they are to being able to handle their peak user load. With the data gathered from this offering, our customers will learn how their site performs, in no uncertain terms, and be able to make informed decisions when moving ahead with their performance assurance strategy.

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#### Value Proposition

> **Validation**

Our engineers will help you determine the proper use cases to test. We'll develop realistic load simulations of those use cases and quantify your site's performance characteristics.

> **Cost Reduction**

Performance, scalability, and stability defects can be costly to fix, as they sometimes require significant changes to the architecture. The cost of fixing them only increases over time. Let us help you identify them early on.

> **Proactive Decision Making**

Find out how your site currently performs. We'll deliver the information you need, helping you understand how your site performs and what areas of your site require immediate attention.

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#### Service Description

> **Performance Assurance Workshop (Condensed)**

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.

> **Load Simulation Development**

Based on your input during the workshop, our team will develop load simulations of all the relevant use cases defined during the workshop. We can utilize your in-house load testing tools, or bring our own tools.

> **Infrastructure Testing**

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

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> **Baseline Testing**

Baseline testing allows us to measure how your site currently performs and scales. We measure the throughput of your site, 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.

> **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.

Through this offering, the customer will understand how their site performs with a limited number of use cases. Those wishing more in-depth coverage of use cases, scalability testing, longevity and stability testing, and high volume benchmark testing should see our [Readiness Evaluation](#) or [Continuous Performance Assurance](#) offerings.

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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***

Three weeks.