

Pega Load Testing

Scalability and performance testing of your Pega solution

A Pega Datasheet

It's typical after releasing a new application – or a new release of an existing application – to experience critical scalability issues that didn't occur during unit testing, quality assurance, or user acceptance testing. The Pega Load Testing service helps project teams develop a load testing program to uncover performance issues that may only arise in production. These issues may be related to the number of concurrent users, volume of transactions occurring at peak times, or the volume of data present in a production system.

As part of the load testing service, Pega staff conducts a pre-testing evaluation of the Pega Platform™ and its underlying infrastructure (database, application server, load balancer, etc.) and recommends any changes needed to conform to best practices. Next, Pega works with technical leads and business representatives to develop projections of peak production load, create story boards of user actions to be simulated, develop load test scripts using Apache JMeter, and execute tests. Once these steps are completed, the resulting data is analyzed, and a detailed evaluation and remediation plan is provided.

With Pega's Load Testing service your project benefits from:

- Improved user experience after release
- More accurate assumptions and peak load projections
- Reusable load testing assets
- Expertise in a variety of load tests, including general load, endurance, stress testing, and peak testing
- Ability to test both interactive UI-based applications or simulate input and output sources for headless applications
- Ability to use existing IT infrastructure or Pega-provided cloud infrastructure to drive load
- Ability to evaluate performance impact of changes to existing Pega infrastructure, or the impact of other system changes, such as an anticipated increase in users

Challenge

A key risk factor for any project is the possibility that the system will become slow or fail after go-live. These issues can lead to lost productivity and low user adoption for new capabilities that deliver ROI.

Solution

Pega's Load Testing service puts your projects on the path to success by helping you develop accurate projections of peak load, create and execute a load testing program, and evaluate the resulting data. Pega reviews your platform's infrastructure and assists with remediation of any issues found prior to, or as a result of, load testing.

Timeline and deliverables

The effort depends on the scope and complexity of the scenarios that are scripted. A straightforward project might require two resources for six weeks. Larger projects may require additional time if the application is complex, there are many user scenarios to script, or a high volume of users or transactions need to be simulated.

Key deliverables include:

- Pre-testing infrastructure evaluation
- Load testing plan, including test design and volume metrics
- Parameterized JMeter load testing scripts
- Load test report with performance data and charts
- Remediation or improvement plan

When is the Pega Load Testing service appropriate?

Pega Load Testing is most appropriate when a project is anticipating its initial go-live release, a release with major new functionality, or a significant increase in users. Once a load testing program has been established, Pega recommends customers perform testing prior to every production release. This service typically takes place when development is nearly complete, but early enough so that tests can be developed and executed prior to the release (preferably with time to implement changes if any issues are identified).

What resources are involved?

Pega resources:

- One or two Technical Architects from the Pega Consulting
- Technical Solutions and Design Office
- On-shore and off-shore resources (when needed)

Client resources:

- Project Manager
- Infrastructure Architect
- Business Architect
- Quality Assurance Lead

Getting started

Contact your Pega Practice Leader to discuss your load testing needs. We will work with you to schedule a Pega Load Testing service that meets your goals.

How long is the service?

- Typically four weeks, depending on complexity and scope.

When is load testing needed?

- Pega Load Testing services are most appropriate when a project is anticipating its initial go-live release, a release with major new functionality, or a significant increase in users.

Who should I contact?

- Your Pega Practice Leader.

About Pegasystems

We are Pegasystems, the leader in software for customer engagement and operational excellence. Our adaptive, cloud-architected software – built on the unified Pega Platform™ – empowers people to rapidly deploy and easily change applications to meet strategic business needs. Over our 35-year history, we've delivered award-winning capabilities in CRM and digital process automation (DPA), powered by advanced artificial intelligence and robotic automation, to help the world's leading brands achieve breakthrough business results. Learn more about us at pegacom.