Zuul is an open source CI/CD platform specializing in gating changes across multiple systems and applications before landing a single patch.

Zuul is a git-driven system that facilitates collaboration between teams, built for a world where development, testing, and deployment of applications and their dependencies are one continuous process.

The platform is ideal for test-driven open source projects and software development organizations who need to gate against multiple projects and systems. Zuul is pluggable and supports multiple development platforms, including Gerrit and GitHub, and leverages the Ansible ecosystem for third-party modules. It’s ideal for distributed development teams and built with security in mind. The code is available at zuul-ci.org.

Born out of the OpenStack community to integrate code reviews and automated testing at massive scale, Zuul is proven across millions of patches and now used by many software organizations, including BMW, GoDaddy, OpenLab, the Wikimedia Foundation and Tungsten Fabric. User case studies are available at zuul-ci.org/users.

The latest release of Zuul, version 3, adds features such as GitHub integration and Ansible-based jobs which are designed to facilitate collaboration between teams and realize a world where development, testing, and deployment of applications and their dependencies are one continuous process.
Why Zuul:

- Use Zuul to test the future; easily test changes to multiple systems together before landing a single patch
- Multi-system gating (infrastructure to apps, multi-project, multi-cloud)
- Multi-tenant design enables a mix of decentralized organization for scalability and velocity with centralized policy and compliance
- Built for distributed development teams with security top of mind
- Ability to start small without the worry of switching tools as you scale
- Proven at massive scale, but also used for small and medium-sized workloads
- Makes use of common Ansible content (no unique or new language)
- Pluggable and extensible -- potential to have a large community of third party modules and greater support from the ecosystem
- Truly open community at a foundation, not an open core model
- To put it simply -- stop merging broken code!

Select Case Studies: BMW and GoDaddy

Excerpts from Zuul user case studies available at zuul-ci.org/users.

The community that built Zuul was probably the first feature [that drew GoDaddy to Zuul]. We have a very large OpenStack installation at GoDaddy, and a few of us have been using Zuul since its very early days as OpenStack developers. This experience has always been pleasant, and the folks in charge of it are extremely responsive and welcoming. Beyond that, cross-repo gating allows us to keep our concerns separate, and build CI/CD pipelines out of a combination of upstream free/open software, such as OpenStack, in concert with our more custom GoDaddy-specific integrations.

Clint Byrum, senior cloud software engineer, GoDaddy

Tobias Henkel
software engineer, BMW

After using CI/CD systems for many years for an ever-increasing amount of projects, the limitations of the existing CI solutions were starting to impact our software development efforts. With the increasing size and complexity of today’s software projects such as autonomous driving, the scaling capabilities of our CI/CD solution have become a crucial prerequisite of future development. The Zuul solution, especially after release of version 3.0, fully supports all our requirements to provide a centrally hosted solution that can be shared by many internal software projects. This dramatically reduces operations overhead and frees up valuable developer time to continuously improve all aspects of our CI system setup. Zuul integrates seamlessly with our in-house OpenStack cloud and our repository systems Gerrit and GitHub. It also has an active community and provides the flexibility that our projects need.

Ready to explore Zuul?
Take it for a ride at zuul-ci.org/start

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