

# Community Presentation: Zuul CI (Clint)

- Why did OpenStack need Zuul?
- What is Zuul's killer feature?
- What is Zuul version 3 changing?
- BonnyCI - Closed beta Zuul-aaS for Open Source Projects
  - Live demo!

<https://git.openstack.org/cgit/openstack-infra/zuul>

<https://docs.openstack.org/infra/publications/zuul/>

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# Community Presentation: Zuul CI

- Why did OpenStack need Zuul?
  - Rapid influx of developers. 900 - 2000 active devs every release (depending on who you count)
    - Not only large in numbers, but in diversity - Most populated time zones are well represented.
  - Desire to test components integrated together pre-merge in as many reasonable ways as can be done in a “gate”
  - Support Continuous Delivery of all components as far upstream as possible.

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- What are Zuul's killer feature(s)?
  - Speculative Future Merge testing. "Next Nearest Non-failing Item"
    - Shorten gate-testing delays optimistically
  - Cross-Repo Dependencies
    - Build explicit ordering of un-landed commits across multiple repositories
      - Can work one-way, without gating both sides
  - Massive Parallelism

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- What is Zuul version 3 changing?
  - Re-factoring to support clearer lines between Zuul and OpenStack
    - Less complicated deployment and operation
    - Less requirements on target test nodes (Zuul pushes code instead of nodes pulling)
    - In-repo job definition to support decentralized usage
    - Auth system so you can safely give Zuul cloud credentials
  - Adding Github support ... ehh.. In 3.1
- Rapidly reaching production readiness - June is a safe bet

# Community Presentation: Zuul CI

- BonnyCI - Closed beta Zuul-aaS for Open Source Projects
  - Inspired by internal IBM success with Gerrit and Zuul
  - Early feature-incomplete preview of Github support to reach wider audience
  - Closed beta to help us understand how projects will use Zuul
  - Running fork of Zuul v2.5 today
  - Prototyping v3
  - Ready to scale onto any OpenStack cloud
    - Others are a nodepool driver away
- Anybody want to see a demo of Zuul working via Github?