



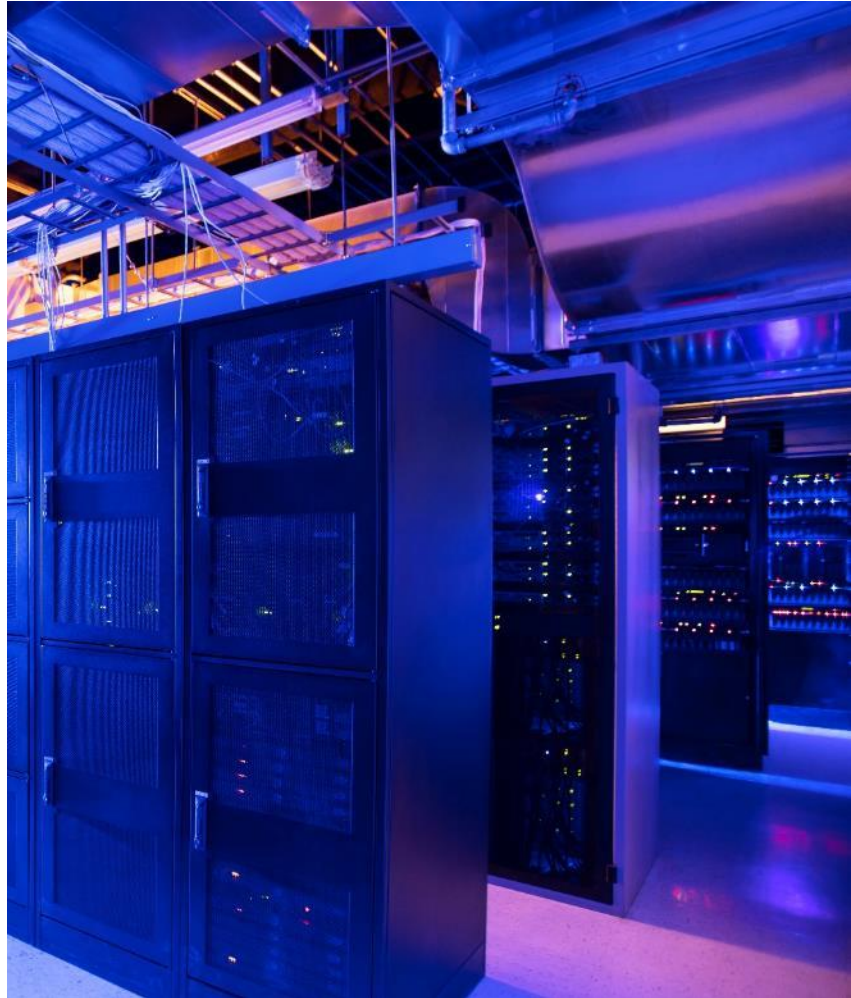
SOFTWARE QUALITY

Maintaining Software Quality in a rapidly expanding open-source community

- Dariusz Stojaczyk, Paul Luse, Seth Howell

AGENDA

- What is Software Quality?
- Testing in the SPDK Community
- Continuous Integration
- Where You Can Help



Software Quality in SPDK



SOFTWARE TESTING IN THE SPDK COMMUNITY

UNIT TESTS



- Run on every patch
- End-end functionality
- Components are black box

- Run on every patch
- Protect against regression
- Focused on public API per file



System Testing

- Guard against regressions
- Demonstrate value add
- Automation is WIP

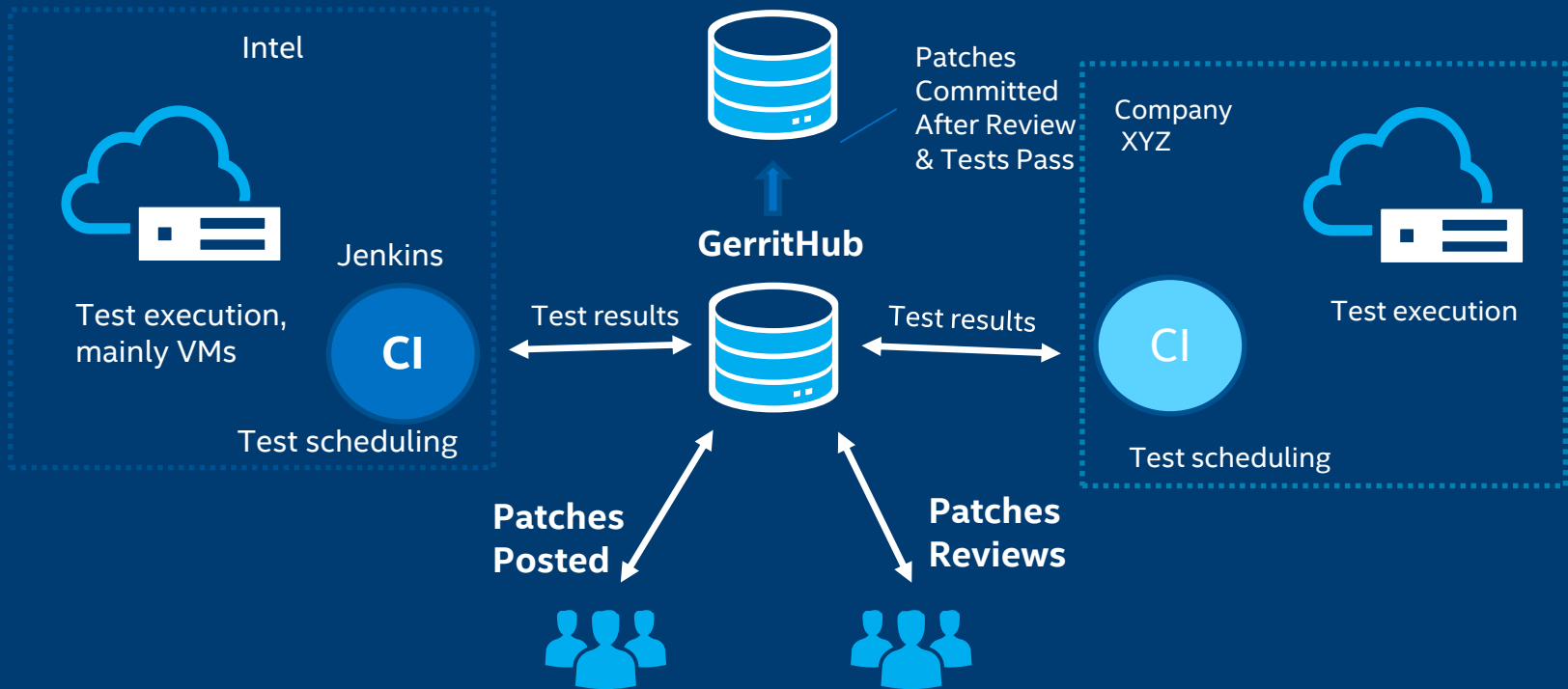


- Just getting started w/fuzzing
- Feel free to jump in!

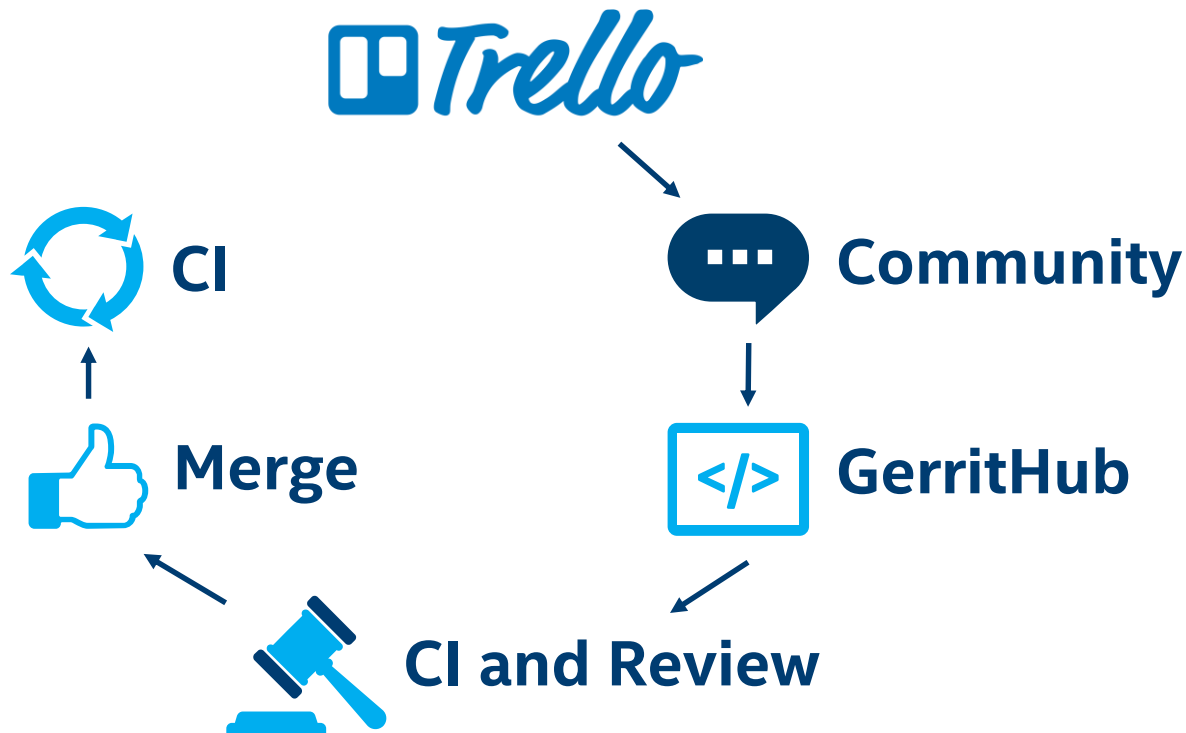


TEST CI & INFRASTRUCTURE

Get started at <https://spdk.io/development/>



AN SPDK PATCH: CRADLE TO GRAVE



WORKS IN PROGRESS – COMPLETE LIST ON TRELLO

- Fuzz Testing
- Automated Performance Testing
- Dedicated Nightly Test Hardware
- Scaling the Test Pool
- Security Threat Model

spdk.io/community

