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OpenJDK Infrastructure Status

Mohan Pakkurti – May 12th, 2011

# Infrastructure Scope

Areas that are currently scoped under Infrastructure for OpenJDK

- Bug system
- Code review system
- Build Infrastructure
- Test Infrastructure
- Website and Information management
- Project management tools

*a quote from the OpenJDK bylaws*

Governing board ensures that sufficient infrastructure is available to Community members

# Bug system - Current status

## Requirements collection and system selection

- Invited input on requirements and features on the OpenJDK mailing lists starting in March 2011
- Consolidated the requirements and invited discussion on the requirements in the OpenJDK mailing lists
- Selected systems to evaluate, Bugzilla and JIRA
- Collected use cases for how we want to use the bug system in both OpenJDK processes and internal Oracle processes
- Created processes to handle security bugs and sensitive information
- Comparison of Bugzilla and JIRA with reference to our requirements
- Scalability and usability testing

## Resources committed this project (from Oracle)

- A couple of people started looking into this part-time in January 2011
- In April we added a team of 3 full-time engineers focusing on OpenJDK infrastructure

# Bug system - Ongoing work

## Ongoing

- Discussions with external partners who can help implement the systems
- Scalability and usability testing of Bugzilla and JIRA
- Calculating the scale of HW, Disk, Network and other hard resources needed
- Securing hw & sw commitment to host the bugsystem from Oracle
- Securing resources to act as system owners and administrators
- Planning for a pilot system for JDK 8 projects

## Next steps

- Choose which system
  - Discussion will take place on the web-discuss list
- Deploy a pilot project for a few key JDK 8 projects
- Start migration planning for bugs in the legacy system

# Other infrastructure issues

- Current hardware and hosting infrastructure is fragile and needs urgent upgrades
- Implement a code review system that enables discussions around code, test and content changes and stores all interactions in that process
- Need to examine requirement for future needs for OpenJDK website and information management
- General Oracle direction for hosting public/open-source projects is Project Kenai (<http://kenai.com>)

## Appendix - Bug system

### Some key requirements for a Bug system

- Independent and will be used for all issue tracking in OpenJDK
- System to support multiple types of issues / tasks
- System to support multiple workflows for different processes defined in the bylaws and the OpenJDK engineering processes
- Ability to see related info on the issue – Code reviews, test cases
- Complex permissions and actions based on that
- Security and permissions to handle sensitive information
- Some features can be available to non-members in the system
- Flexible bug statistics and reporting features including user/groups reports
- Vote/watch/comment features
- Flexible dashboards, views and workflows by user, group and global tasks
- Programmable interface to the system to access all the data and actions
- Integration to other systems (scm, cr, build and test, dashboards etc)
- Preserve existing historical bug information