

The JDownloader Continuous Deployment Immune System

Summary

Increasingly, software applications are shortening the time from bug fix to deployed software. JDownloader is such a software, which has shortened the time from commit to updated software to a minimum using continuous deployment practices. As a consequence of a fully automated process, semantic bugs can slip through and break a deployed system. This thesis describes and evaluates the JDownloader “immune system” that has been developed to catch such semantic bugs and aid or automate the decision to rollback a software release.

Work Results

- Literature review
 - Continuous integration, “Immune system” metaphor
- Research question
 - Requirements and challenge
- Design and implementation of the JD immune system
 - Different approaches Human x Maschine
- Evaluation of JD immune system

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Link to thesis descriptions: <http://osr.cs.fau.de/fun>

Link to layout of final theses: <http://wp.me/pDU66-S1>

Link to grading framework for final theses: <http://wp.me/pDU66-MF>