Continuous Integration and Delivery for Open Source and Free Software Development

Dong Ma
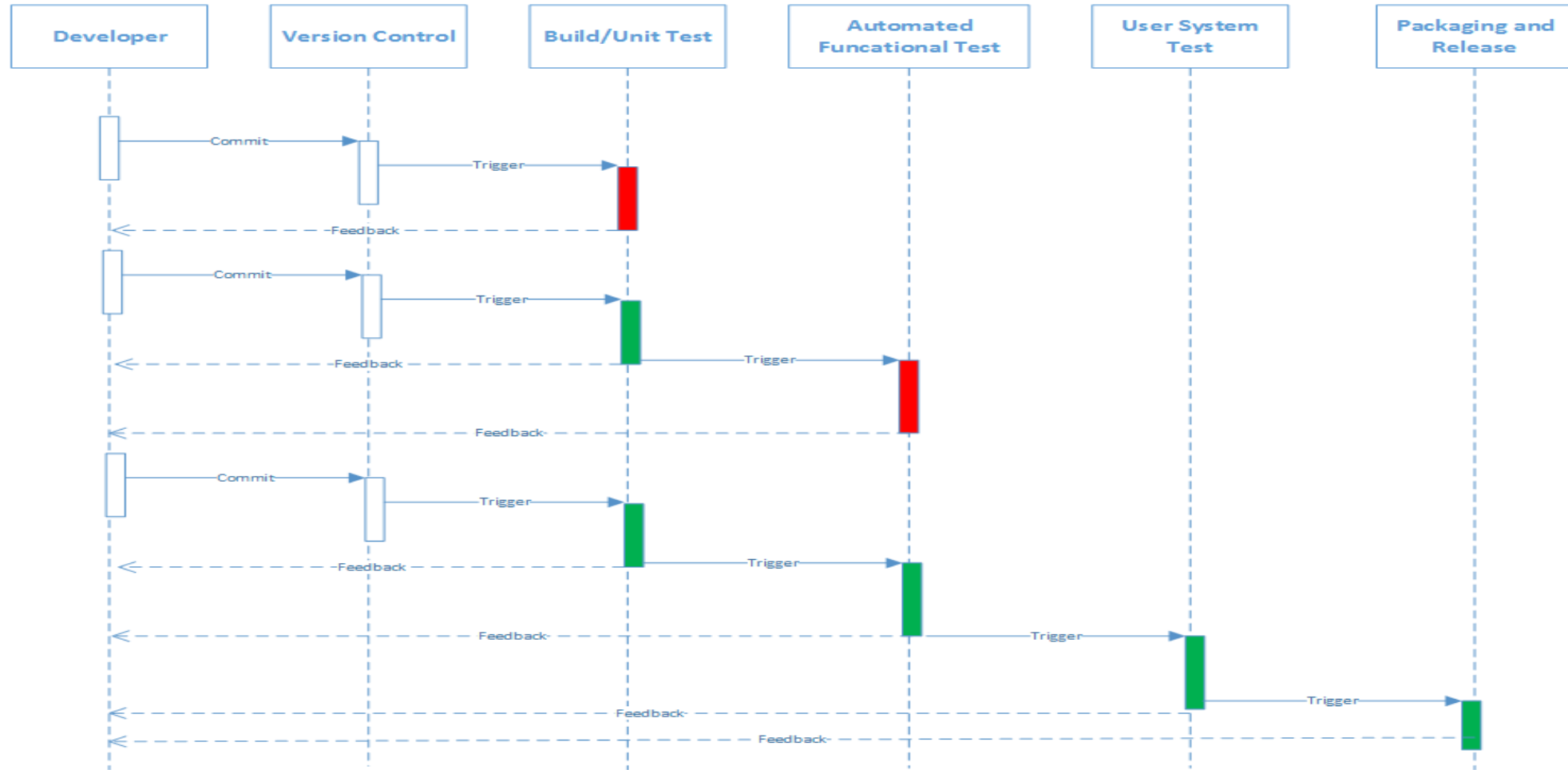
Hewlett Packard Enterprise

winterma.dong@gmail.com

Dong Ma (Vincent)

- Hewlett Packard Enterprise software engineer, focused on Free and Open Source Software development

- OpenStack Infrastructure Team software engineer focused on Jenkins and OpenStackCI

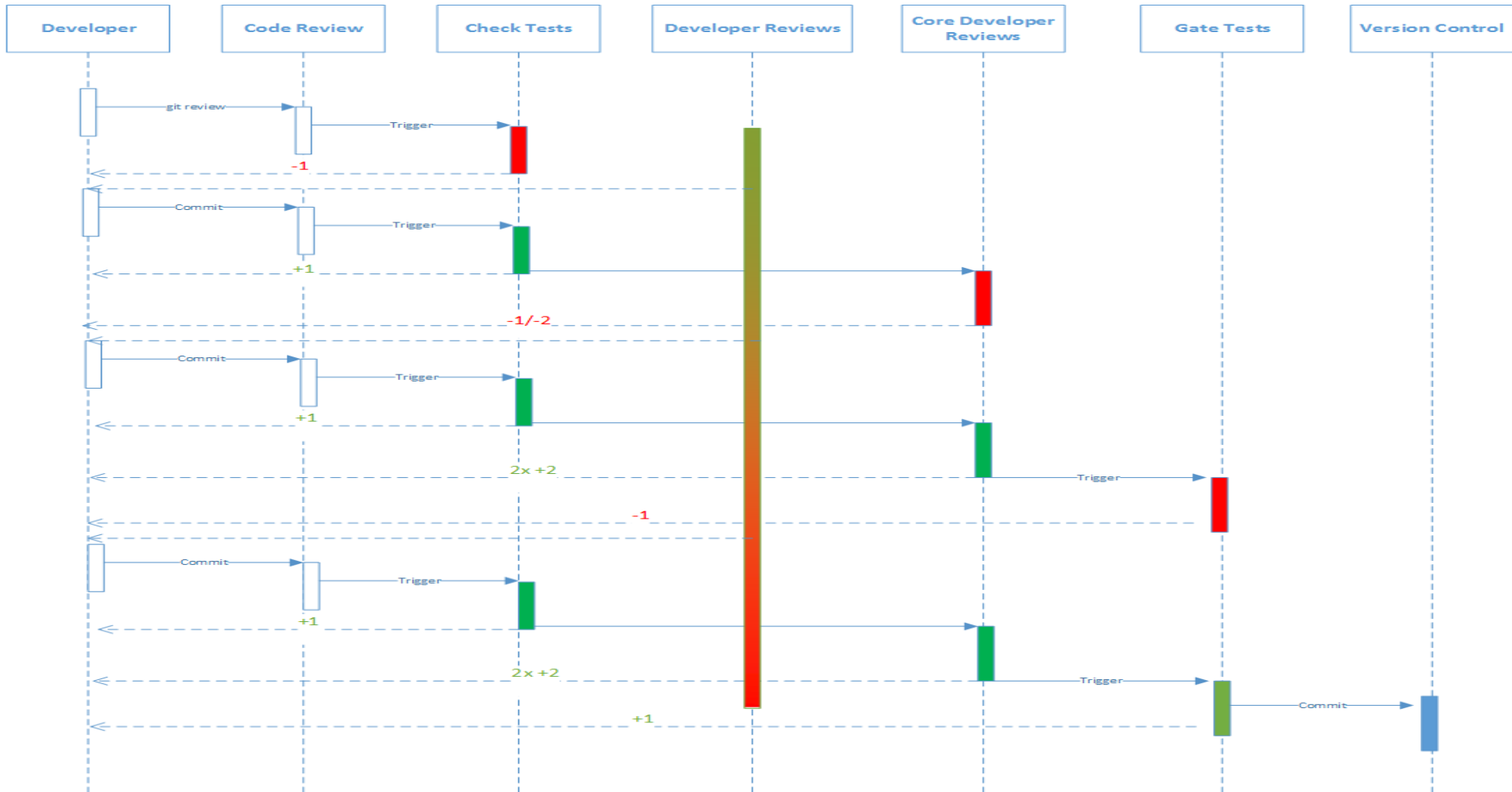- FOSSology project core contributor

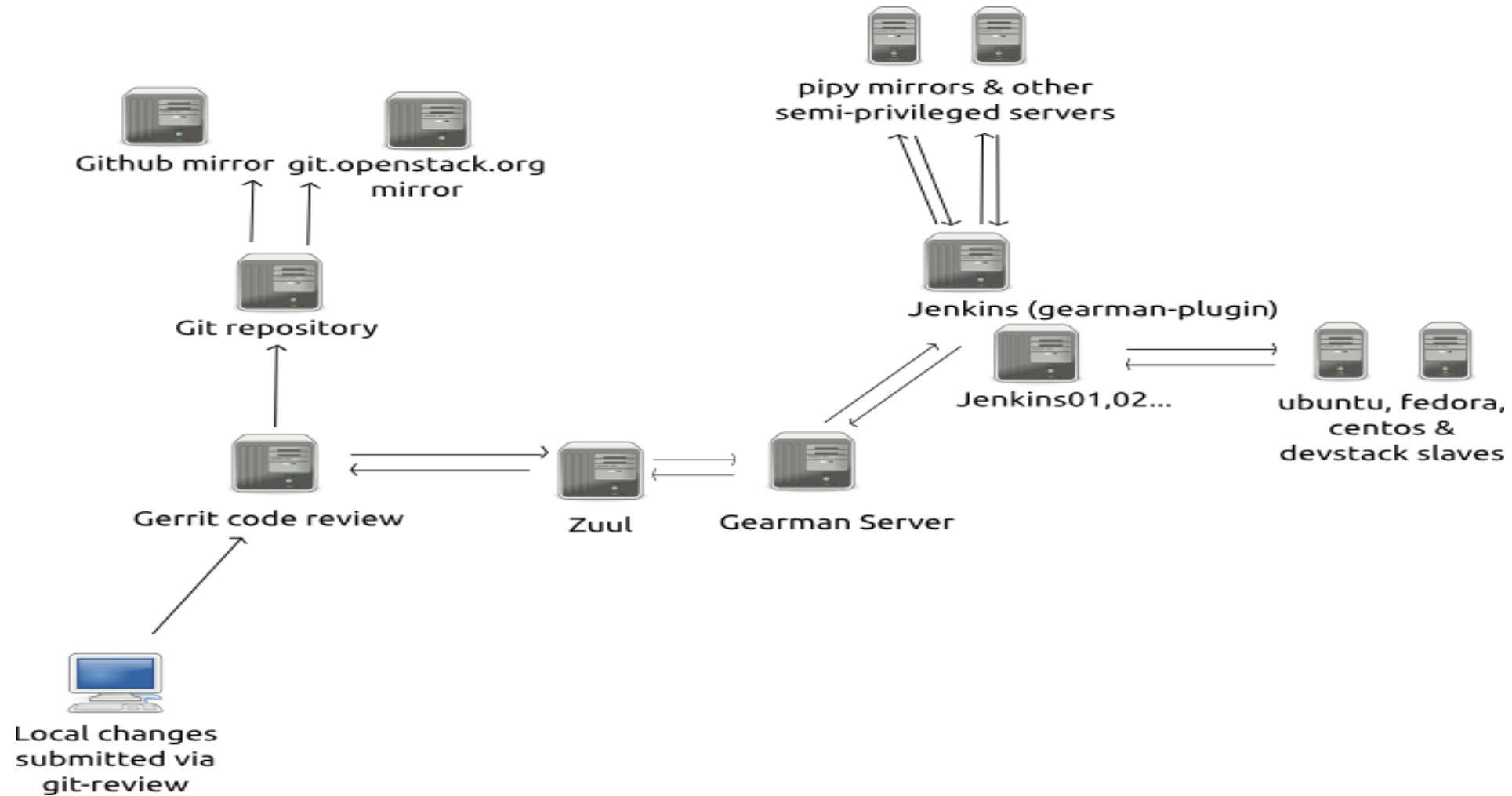# Typical Workflow of FOSSology project

Problems

- Commits in rapid succession can make CI tests obsolete as they run

- It is possible to end up with a broken master temporarily

- Doesn't scale to large open source projects

OpenStack workflow

OpenStack Infrastructure

Problems solved

- The master version is always OK at any time
- Gated commits with Zuul ensure that tests are never obsolete

How to leverage OpenStack way

- Tools we can use
  - Git
  - Gerrit
  - Zuul
  - Jenkins (jenkins-job-builder)
  - Nodepool
- Puppet OpenStackCI module documentation: http://docs.openstack.org/infra/openstackci/

Questions

- Contact
  - Email: winterma.dong@gmail.com
  - HPE Email: dong.ma@hpe.com
  - Freenode: larainema

- Resource
  - http://docs.openstack.org/infra/system-config/