

To a netfilter buildbot?

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Automatic build test and release

- Nftables got a test system
- No automatic run of it
- Need an automatic build

Automatic build test and release

- Jenkins
- Buildbot
- Travis-ci
- gitlab-ci

Java based with complete web GUI

- Web interface

Pros

- Big community
- Lots of plugins

Cons

- Java
- Web interface

Hosted service

- single file to describe the build
- run in the cloud

Pros

- Hosted
- simple configuration file

Cons

- Hosted

Gitlab CI

- Self hosted Github clone
- Running a travis-ci clone
- Flexible and powerful
 - Standard runners
 - Docker based runners

Pros

- simple configuration file

Cons

- Depends on gitlab

Build test and release

- open-source framework for automating software build, test, and release processes.

Used in Suricata

- git monitoring
- prscript

Pros

- Python configuration file
- Flexible

Cons

- Python configuration file
- No Docker integration

Master.cfg excerpt

```
trusted_dev=( "regit", "poona", "inliniac", "ken-tilera", "jasonish", "decanio" )
custom_repo = { "decanio": "suricata-np" }
for dev in trusted_dev:
    if custom_repo.has_key(dev):
        factory_prepr = SuriBuildFactory(repo='git://github.com/' + dev +
        factory_pcappr = SuriPcapTestBuildFactory(repo='git://github.com/
```


Buildbot and prscript

- A Python system to automate the compile/test cycle to validate code changes.
- Prscript is pre Pull Request script:
 - Known developers have to run it before PR
 - Trigger a series of build in the buildbot
 - Also some basic functional tests

Docker mode for prscript

- Buildbot installed in a docker container
- Ready to use via prscript
- Available in docker hub
- Configuration in the source

Kernel part

- Need to be able to use latest/custom kernel
- May need to test backward compatibility
 - Distribution kernel
 - Stable kernel

Discussion