

# Agenda

## Write in your subtitle here

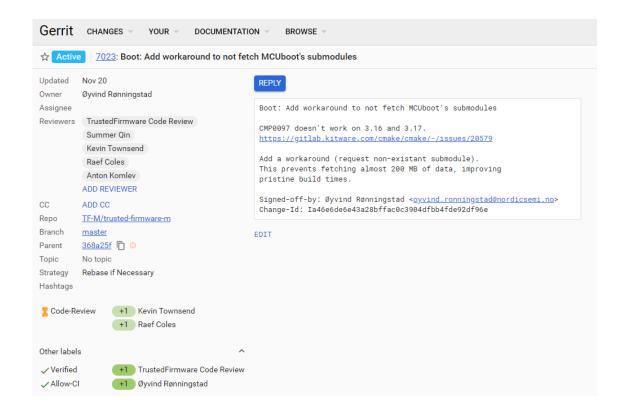
- How CI helps
- TF-M openCl
- Issue report
- Ongoing...



# How CI helps

### CI with TF-M daily developer

- Example Patch
- Steps
  - Allow-Cl to trigger the patch verification
  - Wait the comment on the patch
  - Find the error details if have
  - CI results/artifacts/errors





## TF-M openCl

#### Infra

- Run slaves based on AWS
- Jenkins/LAVA support by LSS
- Entry on tf.org: https://ci.trustedfirmware.org/view/TF-M

#### Repos

- Job configs
  - https://git.trustedfirmware.org/ci/tf-m-jobconfigs.git
- CI Scripts
  - https://git.trustedfirmware.org/ci/tf-m-ciscripts.git



## TF-M CI Jobs overview

#### **Production CI Jobs**

- tf-m-build-docs-nightly
- tf-m-nightly
- tf-m-static(per-patch)
- tf-m-build-docs
- tf-m-build-config
- tf-m-lava-submit
- tf-m-cppcheck
- tf-m-checkpatch

#### Release Jobs

- tf-m-release
- tf-m-code-coverage

#### Infra Jobs

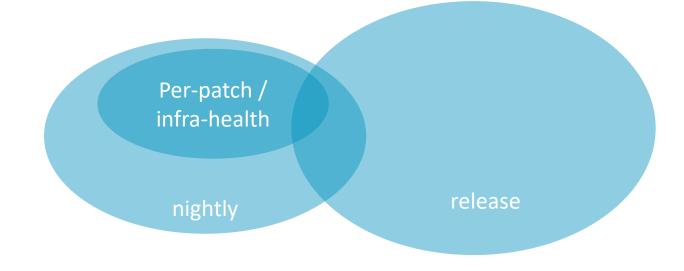
- tf-m-infra-health
- tf-m-build-config-infra-health



# Job coverage

### Jobs defined for different purpose

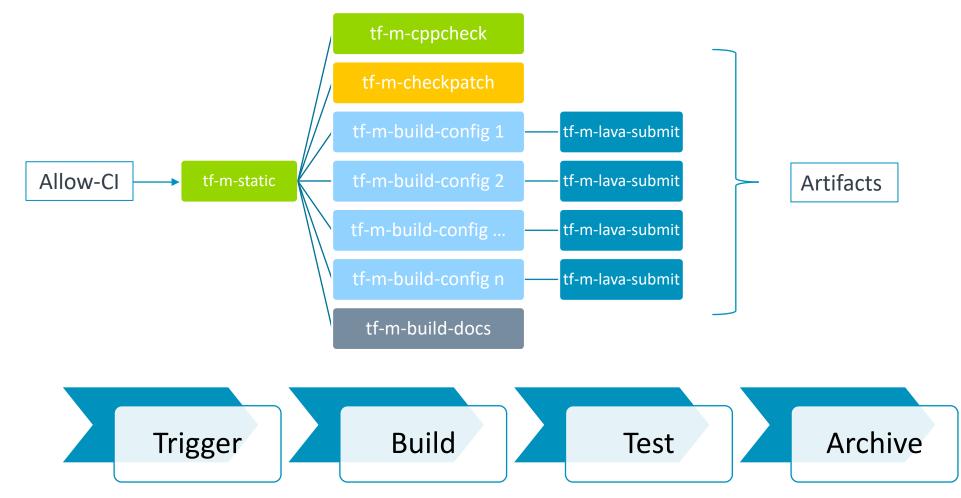
- Release job
  - Active during release stage
  - Manually only
  - Size: XL
- Nightly job
  - Active ever day to cover the latest HEAD
  - Notification to mail list when got fail
  - Size: M
- Per-patch
  - Gerrit patch verify before merge
  - Size: S





# Job dependencies

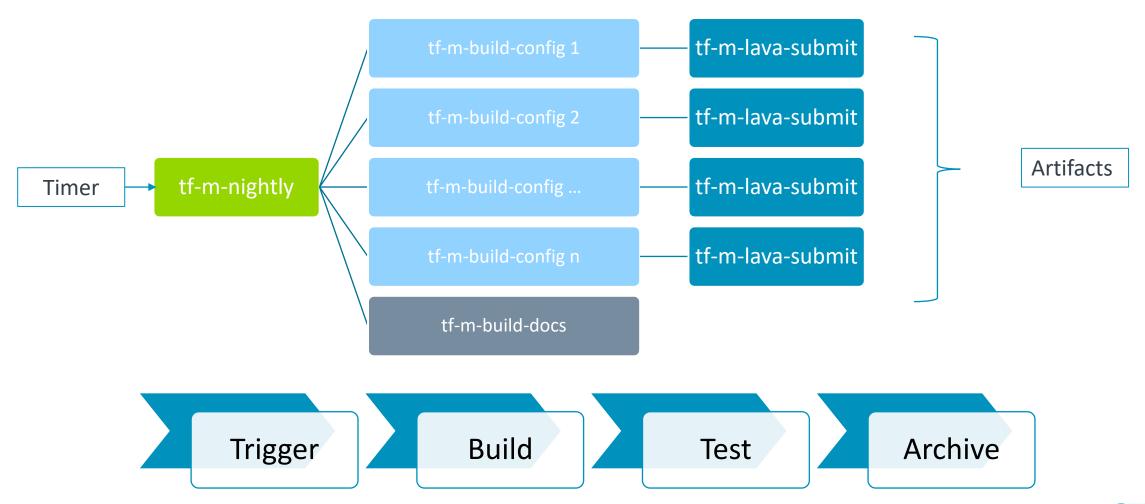
Per-patch





# Job dependencies

Nightly





## CI notification

- Nightly job only
- Email when build or test fail
- Email address: tf-m-ci-notifications@lists.trustedfirmware.org
- Mail list:
  - <a href="https://lists.trustedfirmware.org/mailman/listinfo/tf-m-ci-notifications">https://lists.trustedfirmware.org/mailman/listinfo/tf-m-ci-notifications</a>
- Public to partners
  - Easy to add or remove independently
- Archive





## Contribute

#### Young CI

- Welcome
- Many mechanism have chances to improve
- More automated tests required
- Gerrit:
  - https://review.trustedfirmware.org/q/project: ci/tf-m-ci-scripts

#### **Staging Server**

- Staging jobs
  - https://ci.staging.trustedfirmware.org/view/T
    F-M
- Staging repos
  - https://git.trustedfirmware.org/next/ci
- Staging doc in review
  - Google docs



## Cl Issue report

- TF-M CI Infra (LSS ticket)
  - Jenkins
  - LAVA
  - Gerrit
  - Git
- TF-M CI Scripts (tf-m@lists.trustedfirmware.org)
  - Build process
  - Test configs



## Ongoing

- Musca B1 board for LAVA test
- ARM CLANG compiler support
- CI mail list for notification with fail content
- More info about TF-M CI phase 2
  - <a href="https://developer.trustedfirmware.org/w/collaboration/openci">https://developer.trustedfirmware.org/w/collaboration/openci</a>





## **Artifacts**

- Build log
- Build output
- Test output
- Result summary



arm

Q & A