Most tests have been running in Flutter CI <u>LUCI</u> for multiple flutter repositories, including <u>post-submit framework</u>, <u>pre-submit framework</u>, etc. This page uses framework as an example, and talks about what to do when a LUCI build failure happens.

## **Build dashboards**

- Flutter build dashboard
- LUCI Milo dashboard

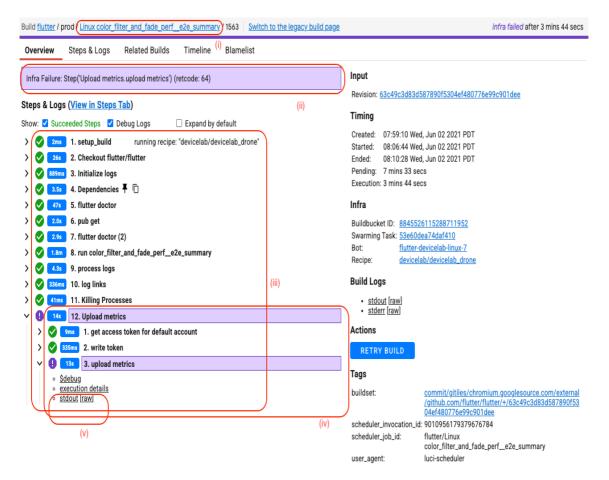
#### Infra Failure

An infra failure comes with network connection issues, hardware outage, recipe breakage, cipd dependency issues, etc. It shows up as a purple box in the dashboards:

- Framework post-submit build dashboard:
  [[/images/luci\_post\_submit\_infra\_failure.png|luci\_post\_submit\_infra\_failure]]
- Framework pre-submit build console:
  [[/images/luci\_pre\_submit\_infra\_failure.png|luci\_pre\_submit\_infra\_failure]]

## Overview of an infra failure build

An example build: Linux color filter and fade perf e2e summary



- (i) Link to the historical build list of this builder
- (ii) A quick glimpse of the infra failure
- (iii) The step list of this builder, defined by the recipe on the right

- (iv) The real failed step causing the build failure
- (v) Check stdout for detailed log

#### What to do

- 1. Check if the infra failure has happened on earlier builds by clicking (i)
- 2. Check if issue already exists in the infra bug pool
- 3. If not, file an infra bug
- 4. If this is a blocking failure, please add Projects <u>Infra Ticket Oueue</u>. The infra gardener will scan through the queue frequently.
- 5. If you want to get an immediate help, please ask in the discord hackers-infra channel
- 6. If this is an infra flake, and a retry is needed
  - For pre-submit test, click Re-run in the <u>check run page</u>:
    [[/images/luci\_pre\_submit\_rerun.png|luci\_pre\_submit\_rerun]]
    - No access limit.
  - For post-submit test, login to <u>framework build dashboard</u>, click the task box, and click RERUN: [[/images/luci\_post\_submit\_rerun.png|luci\_post\_submit\_rerun]]
    - Ask to re-run in discord hackers-infra if not allowed.

## **Test Failure**

A test failure shows up as a red box in the dashboards:

- Framework post-submit build dashboard:
  [[/images/luci\_post\_submit\_test\_failure.png|luci\_post\_submit\_test\_failure]]
- Framework pre-submit build console:
  [[/images/luci\_pre\_submit\_test\_failure.png|luci\_pre\_submit\_test\_failure]]

#### Overview of a test failure build

Please refer to the above example of the infra failure.

### What to do

- 1. Check if it happens in earlier builds/commits via (i)
- 2. Debug based on the error message (ii) and detailed log (v) to see if a real test failure caused by code changes.
- 3. Check if the issue already exists in the <u>bug pool</u>
- 4. Check if a flaky bug has been filed in flaky bug pool
- 5. File a new bug if needed
- 6. If a rerun is needed, please refer to step 6 in the above infra failure session.

# **Difference of Engine from framework repo**

## Rerun a post-submit test

Engine post submit builds are available in milo dashboard only, and only googlers can rerun. Please ask help from engine or infra team.