



Hewlett Packard
Enterprise

DAOS CI Overview

Virtual DUG May 2025

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Agenda

- CI configuration
- Test pipeline for git commit
- Interpreting test results



DAOS: CI configuration

- Checkboxes for author before requesting gatekeeper.

Steps for the author:

- ☐ Commit message follows the [guidelines](#).
- ☐ Appropriate [Features or Test-tag](#) pragmas were used.
- ☐ Appropriate [Functional Test Stages](#) were run.
- ☐ At least two positive code reviews including at least one code owner from each category referenced in the PR.
- ☐ Testing is complete. If necessary, forced-landing label added and a reason added in a comment.

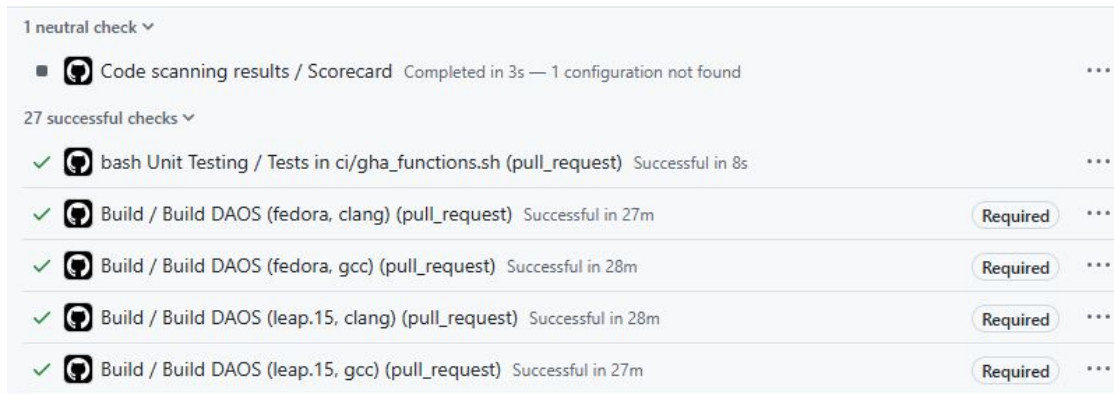
After all prior steps are complete:

- ☐ Gatekeeper requested (daos-gatekeeper added as a reviewer).







- Commit message guidelines:
<https://daosio.atlassian.net/wiki/spaces/DC/pages/11133911069/Commit+Comments>
 - Commit message requires a valid DAOS JIRA ticket reference
- Features or Test-tag: <https://daosio.atlassian.net/wiki/spaces/DC/pages/10984259629/Test+Tags>
 - Typically left as default to run complete test list defined for PR.
 - Could be used to reduce scope for quick targeted testing.
 - May be needed to increase test coverage in specific component area e.g Features: pool
- Functional Test Stages:
<https://daosio.atlassian.net/wiki/spaces/DC/pages/12147556353/CI+Functional+Test+Stages>
 - Typically left as default to run complete test stages defined for PR.

DAOS: Test pipeline for git commit

- When a git commit is pushed, the following tests get triggered:
 - GHA tests
 - Jenkins tests
- Example of GHA tests:



The screenshot shows a GitHub Actions workflow summary. It starts with '1 neutral check' which is 'Code scanning results / Scorecard', completed in 3s with a note '1 configuration not found'. Below this, there are '27 successful checks'. The first check is 'bash Unit Testing / Tests in ci/gha_functions.sh (pull_request)', successful in 8s. Following this are four 'Build / Build DAOS' checks for different configurations: (fedora, clang), (fedora, gcc), (leap.15, clang), and (leap.15, gcc), all successful in 27m. Each build check has a 'Required' badge and a three-dot menu icon.

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 1 neutral check ▾ | |
| ■  Code scanning results / Scorecard Completed in 3s — 1 configuration not found | ... |
| 27 successful checks ▾ | |
| ✓  bash Unit Testing / Tests in ci/gha_functions.sh (pull_request) Successful in 8s | ... |
| ✓  Build / Build DAOS (fedora, clang) (pull_request) Successful in 27m | Required ... |
| ✓  Build / Build DAOS (fedora, gcc) (pull_request) Successful in 28m | Required ... |
| ✓  Build / Build DAOS (leap.15, clang) (pull_request) Successful in 28m | Required ... |
| ✓  Build / Build DAOS (leap.15, gcc) (pull_request) Successful in 27m | Required ... |

- GHA tests status and logs are visible from GitHub

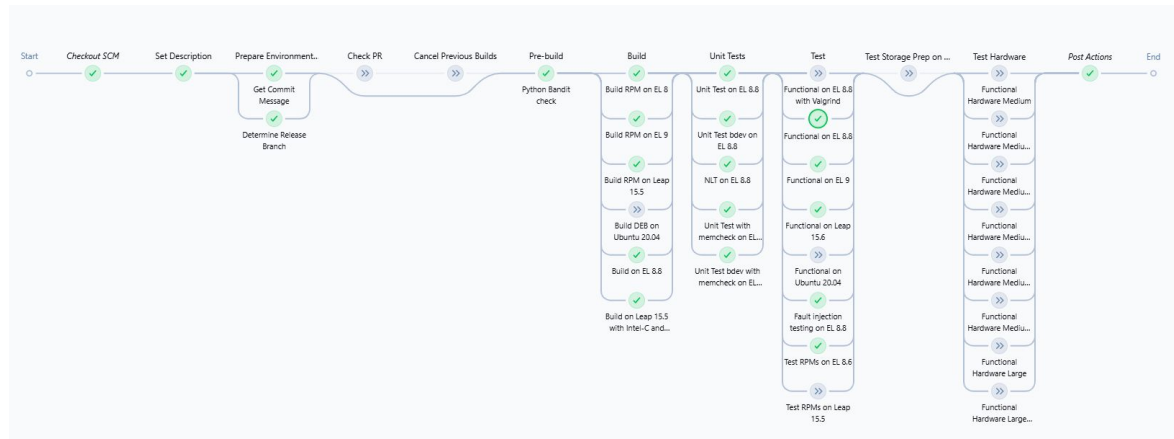


DAOS: Test pipeline for git commit

- Jenkins tests:
 - View in GitHub:

| | | |
|----------------------------------------------------------|----------------------------------------------|----------|
| test/Functional Hardware Medium Verbs Provider MD on SSD | Expected — Waiting for status to be reported | Required |
| test/Functional on EL 8.8 | Expected — Waiting for status to be reported | Required |
| test/NLT on EL 8.8 | Expected — Waiting for status to be reported | Required |
| test/Python Bandit check | Expected — Waiting for status to be reported | Required |
| test/Test RPMs on EL 8.6 | Expected — Waiting for status to be reported | Required |
| test/Unit Test bdev on EL 8.8 | Expected — Waiting for status to be reported | Required |
| test/Unit Test bdev with memcheck on EL 8.8 | Expected — Waiting for status to be reported | Required |

- View in Blue Ocean / Jenkins
(requires special privilege for access)



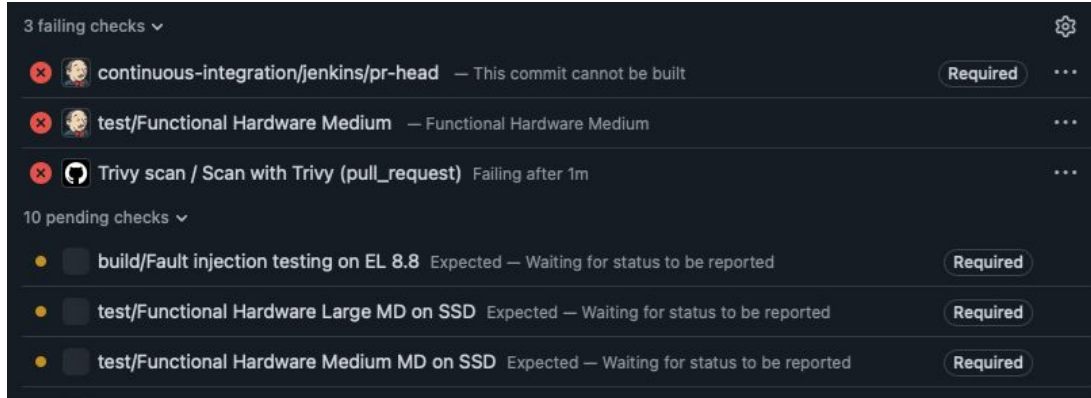
- Final status of Jenkins tests are visible from GitHub.
- Look for the following checkmark as indication of Jenkins tests completion and status



- The **Required** indicates that the test stage/category must be run and passing for the PR to be landed.
- Detailed progress and logs visible from Jenkins but requires special privilege for access.

DAOS: How to interpret errors

- Failure example:



- To get logs for Jenkins failures, please reach out to DAOS team members in DAOS slack Dev channel:
 - Daos slack dev channel (#developer)
 - <https://daos-stack.slack.com/archives/C05UTKACHPY>

