

ODIM CI Process

Tool used for CI

[GitHub Actions](#)

Introduction

GitHub Action workflows are added to the ODIM repository. These workflows called as checks gets triggered whenever a Pull Request(PR) is raised against the master branch.

The result from the workflow execution is then updated to the PR.

PRs are allowed to review and merge, only if the checks are passed.

Following checks are added as part of CI process:

SI No.	Workflow Name	Description
1	build_unittest.yml	Builds and run Unit Tests with code coverage enabled
2	build_deploy_test.yml	Builds, Deploys, run sanity tests and upload build artifacts (like odimra logs)

These checks run in parallel and takes approximately 9 mins to complete.

GitHub Action Workflows details

1. **build_unittest.yml**
 - a. Brings up a Ubuntu 18.04 VM hosted on GitHub infrastructure with preinstalled packages mentioned in link <https://github.com/actions/virtual-environments/blob/master/images/linux/Ubuntu1804-README.md>
 - b. Installs Go 1.13.8 package
 - c. Installs and configures Redis 5.0.8 with two instances running on port 6379 and 6380.
 - d. Checks out the PR code into the Go module directory
 - e. Builds the code
 - f. Runs the unit tests
2. **build_deploy_test.yml**
 - a. Brings up a Ubuntu 18.04 VM hosted on GitHub infrastructure with preinstalled packages mentioned in link <https://github.com/actions/virtual-environments/blob/master/images/linux/Ubuntu1804-README.md>
 - b. Checks out the PR code
 - c. Build and deploys the following docker containers
 - i. Odimra
 - ii. Generic redfish plugin
 - iii. Kafka
 - iv. Zookeeper
 - v. Consul
 - vi. Redisdb
 - d. Runs the sanity tests
 - e. Uploads the build artifacts

***Note:** Build status notifications with the link to the GitHub Actions build job page will be sent to the developer's email.*

Screen shots of the checks after they are executed

<> CodeIssues 2Pull requests 4ActionsProjectsWikiSecurityInsights

Workflows

New workflow

All workflows

build_deploy_test

build_unittest

All workflows

Filter workflows

Event	Status	Branch	Actor	
✓ Create test-pr2.txt	build_unittest #1: Pull request #68 opened by ashraf-vazeer	test-pr2	2 days ago	...
✓ Create test-pr2.txt	build_deploy_test #1: Pull request #68 opened by ashraf-vazeer	test-pr2	2 days ago	...

<> CodeIssues 2Pull requests 4ActionsProjectsWikiSecurityInsights

✓ Create test-pr2.txt

test-pr2

ca@cc48

Re-run jobs

build_unittest

on: pull_request

Build

build_unittest / Build

succeeded 2 days ago in 6m 46s

Search logs

Set up job

Set up Go 1.13.8

Setup Redis

Check out code into the Go module directory

Build

Test

Post Check out code into the Go module directory

Complete job

3s

11s

1m 50s

0s

2m 5s

2m 37s

0s

0s

<> CodeIssues 2Pull requests 4ActionsProjectsWikiSecurityInsights

✓ Create test-pr2.txt

test-pr2

ca@cc48

Artifacts 1

Re-run jobs

build_deploy_test

on: pull_request

Deploy

build_deploy_test / Deploy

succeeded 2 days ago in 8m 12s

Search logs

Set up job

Run actions/checkout@v2

Build the Docker image & Deploy

Test

Upload Build Artifact

Post Run actions/checkout@v2

Complete job

2s

1s

8m 6s

1s

0s

0s

1s