

How we hack on Cockpit Infrastructure

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Goal

treat infrastructure as code

self-validating PR → container rebuilds, private temp deployment,
tests against product main branches

land PR → redeploy to production

Updating unit test container

[.github/workflows/unit-tests.yml](#):

```
name: unit-tests
on: pull_request
[...]
- name: Build unit test container if it changed
  run: |
    changes=$(git diff origin/master..HEAD --
              containers/unit-tests/)
    [ -z "$changes" ] || podman build \
      --tag ghcr.io/cockpit-project/unit-tests \
      containers/unit-tests/

- name: Run unit-tests container
  run: |
    podman run -v $(pwd):/source:ro \
      ghcr.io/cockpit-project/unit-tests
```

Keeping unit-tests container up to date

workflows/unit-tests-refresh.yml

on:

schedule:

auto-refresh every Sunday evening

- cron: '0 22 * * 0'

[...]

- name: Build fresh containers

run: |

podman build --tag ghcr.io/cockpit-project/unit-tests \
containers/unit-tests/

- name: Run amd64 clang test

run: containers/unit-tests/start CC=clang

- name: Push containers to registry

run: podman push ghcr.io/cockpit-project/unit-tests

Developing GitHub workflows

Test on your fork:

- example: [cockpit-ostree npm-update](#)
- example: [homepage docs auto-update](#)

Interactive SSH for debugging:

`uses: mxschmitt/action-tmate@v3`

Self-validating bots

images: Fix building of rhel-7-9 #1507



marusak merged 2 commits into `cockpit-project:master` from `martinpitt:fix-r79` 8 days ago



Conversation 3



Commits 2



Checks 1



Files changed 2



martinpitt commented 9 days ago • edited by cockpituos ▾

Member



Commit `63504ba` failed to consider that the previous `else` case also applied to rhel-7-9. Revert that part and go back to `else`, and add a comment to which images it applies.

Fixes #1481



image-refresh rhel-7-9

Run PR against a bots PR



marusak merged commit **1a1148f** into `cockpit-project:master` 6 days ago

[Hide details](#)[Revert](#)

5 checks passed

- | | |
|--|-------------------------|
| ✓ unit-tests (:latest) | Details |
| ✓ unit-tests (:i386) | Details |
| ✓ unit-tests (CC=clang) | Details |
| ✓ rhel-8-4 Tests passed | Details |
| ✓ rhel-8-4-distropkg@bots#1521 Tests passed | Details |

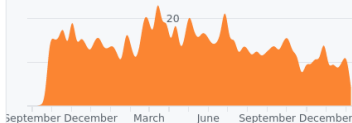
Self-maintaining bots



cockpituous

961 commits 969 ++ 1,361 --

#1



martinpitt

319 commits 3,012 ++ 2,521 --

#2



marusak

132 commits 1,647 ++ 1,215 --

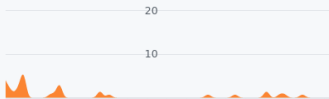
#3



Gundersanne

33 commits 13,722 ++ 153 --

#4



Updates to deployed infrastructure



Simple revert on **quay.io tag history**:

TAG CHANGE		DATE/TIME	REVERT
Jan 12, 2021			
latest	was reverted to SHA256 9bfccb27b09a from	Tue, Jan 12, 2021 10:08 AM	Restore to SHA256 4e7bfb29f463
Jan 5, 2021			
latest	was moved to SHA256 4e7bfb29f463 from	Tue, Jan 5, 2021 8:55 AM	Revert to SHA256 9bfccb27b09a
latest	was reverted to SHA256 9bfccb27b09a from	Tue, Jan 5, 2021 8:54 AM	Restore to SHA256 4e7bfb29f463
latest	was reverted to SHA256 4e7bfb29f463 from	Tue, Jan 5, 2021 8:53 AM	Restore to SHA256 9bfccb27b09a
latest	was moved to SHA256 9bfccb27b09a from	Tue, Jan 5, 2021 8:21 AM	Revert to SHA256 4e7bfb29f463
2021-01-05	was created pointing to SHA256 615461782a2b	Tue, Jan 5, 2021 8:21 AM	

Links/Documentation

- source.redhat.com/groups/public/cockpit/cockpit_wiki/cockpit_ci_resources
- github.com/cockpit-project/cockpituous/
- secrets in internal CEE GitLab repo, only accessible to a few team members
- github.com/cockpit-project/bots
- #cockpit on Freenode, cockpit-devel@lists.fedorahosted.org