SOSS Community Day

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Let devs be devs without sacrificing security

Andrew McNamara; Red Hat

What does it mean to be a developer?

Build off of open source software

Explore new problem spaces and solutions

Use tooling that is supportive not disruptive

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Devs want to easily build artifacts

festoji / .github / workflows / **package.yaml**

arewm update slsa provenance generator ✓

Code | Blame | 90 lines (75 loc) · 2.67 KB

```yaml
---
name: Package

on:
  push:
  workflow_dispatch:

env:
  IMAGE_REGISTRY: quay.io
  IMAGE_REPO: arewm/festoji
  IMAGE_TAGS: latest

jobs:
  build:
```

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Devs want to troubleshoot builds

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Devs want to explore new tech

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Devs don’t need to be this unhappy

SLSA Build L3:

Harden the build platform

Generate provenance

Devs don’t need to be this unhappy

Focus on hardening the build platform

Focus on accurate (detailed) provenance

Provide templates for builds and tests

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Devs don’t need to be this unhappy

Flexibility vs. risk

Sliding scale of risk

enterprise contract

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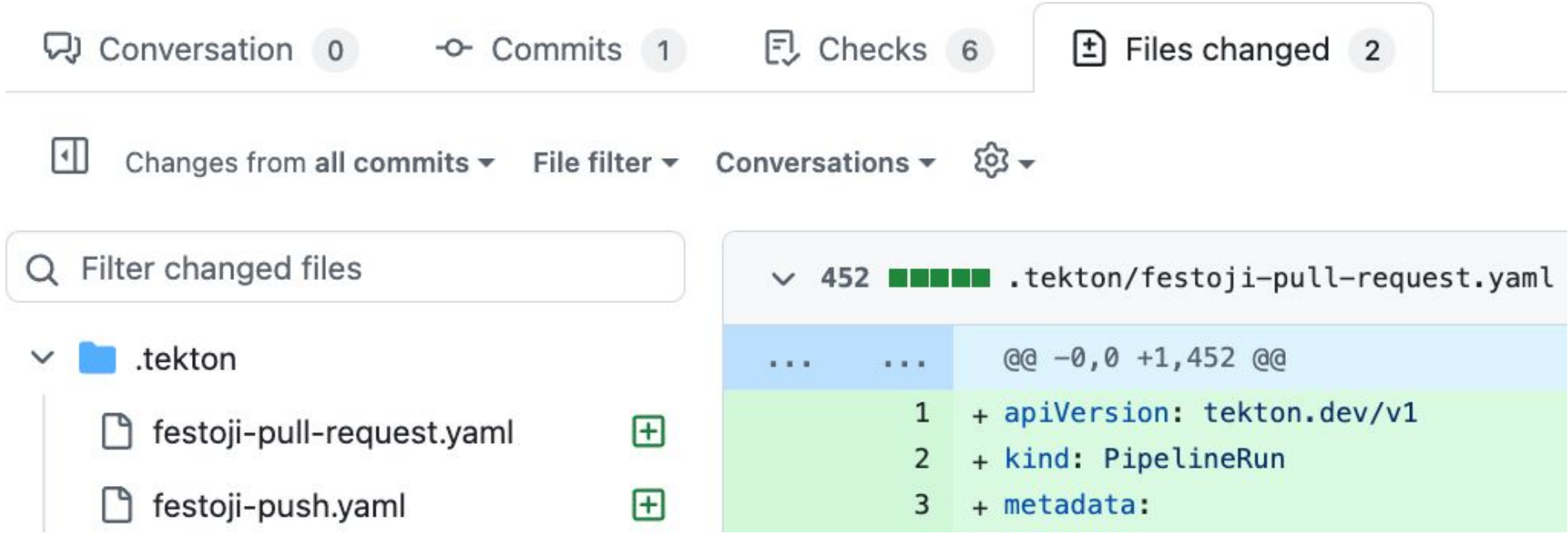
Devs can easily build artifacts



Devs can easily build artifacts

Results

Component ▾ | Status ▾ | Filter by rule...

Results summary

Failed 14 | Warning 3 | Success 94

	Rules	Status	Message	Component
>	Build task called with hermetic param set	Failed	Build task was not invoked with the hermetic parameter set	festoji
>	Required labels	Failed	The required "com.redhat.component" label is missing. La...	festoji
>	Required labels	Failed	The required "description" label is missing. Label descripti...	festoji
>	Exists	Failed	No source image references found	festoji
>	All required tasks were included in the pipeline	Failed	One of "source-build", "source-build-oci-ta" tasks is missi...	festoji
>	No tests erred	Failed	The Task "ecosystem-cert-preflight-checks" from the buil...	festoji
>	No tests were skipped	Failed	The Task "sast-snyk-check-oci-ta" from the build Pipeline...	festoji
>	Optional labels	Warning	The optional "maintainer" label is missing. Label descripti...	festoji

Devs can troubleshoot builds

```
taskRef:
  params:
  - name: name
    value: buildah-oci-ta
  - name: bundle
    value: quay.io/konflux-ci/tekton-catalog/task-buildah-oci-ta:0.2
  - name: kind
    value: task
  resolver: bundles
```

Devs can troubleshoot builds

```
$ tkn bundle list -o json quay.io/konflux-ci/tekton-catalog/task-buildah-oci-ta
:0.2 task buildah-oci-ta | jq
{
  "kind": "Task",
  "apiVersion": "tekton.dev/v1",
  "metadata": {
    "name": "buildah-oci-ta",
    "creationTimestamp": null,
    "labels": {
      "app.kubernetes.io/version": "0.2",
      "build.appstudio.redhat.com/build_type": "docker"
    },
    "annotations": {
      "tekton.dev/pipelines.minVersion": "0.12.1",
      "tekton.dev/tags": "image-build, konflux"
    }
  },
  "spec": {
[...]
```

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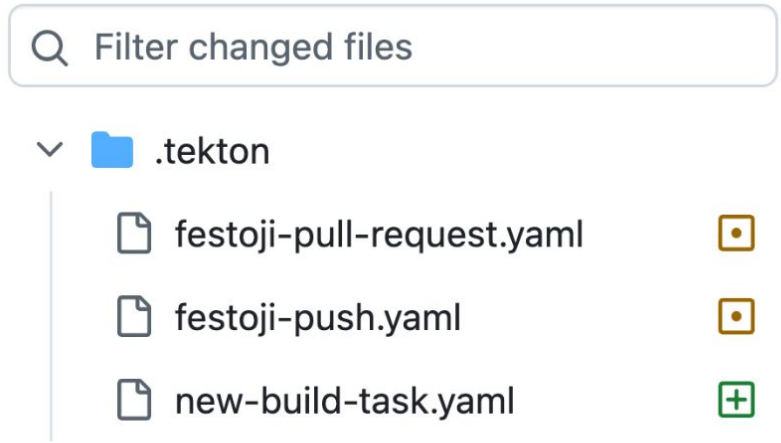
Devs can explore new tech

- 

6 ■■■■■ .tekton/festoji-pull-request.yaml

```
@@ -191,6 +191,12 @@ spec:
191  191            workspace: git-auth
192  192          - name: netrc
193  193            workspace: netrc
     194  +       - name: sample-new-build-task
     195  +         taskRef:
     196  +           kind: Task
     197  +           name: new-build-task
     198  +         runAfter:
     199  +           - clone-repository
194  200          - name: build-container
195  201            params:
196  202            - name: IMAGE
```

Devs don’t need to be this unhappy

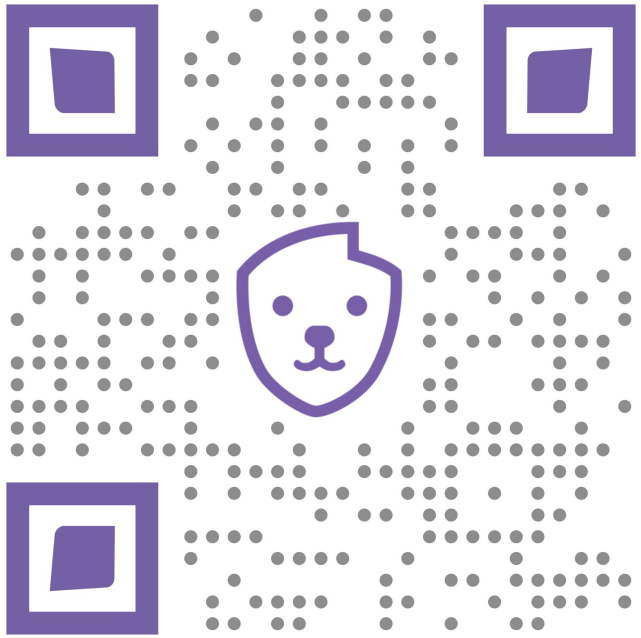



KONFLUX

Thank you!

@arewm

arewm@redhat.com



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