



**KubeCon**



**CloudNativeCon**

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**Europe 2023**

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 TiKV

# **Kubernetes Prow Jobs**

**Day 2 Aspects and How To Navigate, Read & Write Them**

# Kubernetes Prow Jobs

**Day 2 Aspects and How To Navigate, Read & Write Them**

# Who We Are



@psaggu



@jasonbraganza

**What is this talk about?**

# Agenda

- What Prow Jobs are, their different types & the anatomy of a prow job
- Introduction to Spyglass & Testgrid
  - How to use them to read test statistics & generate useful CI signals
- Dive into the code of existing Prow jobs running Kubernetes tests
  - Learn how to locally replicate, build and diagnose them

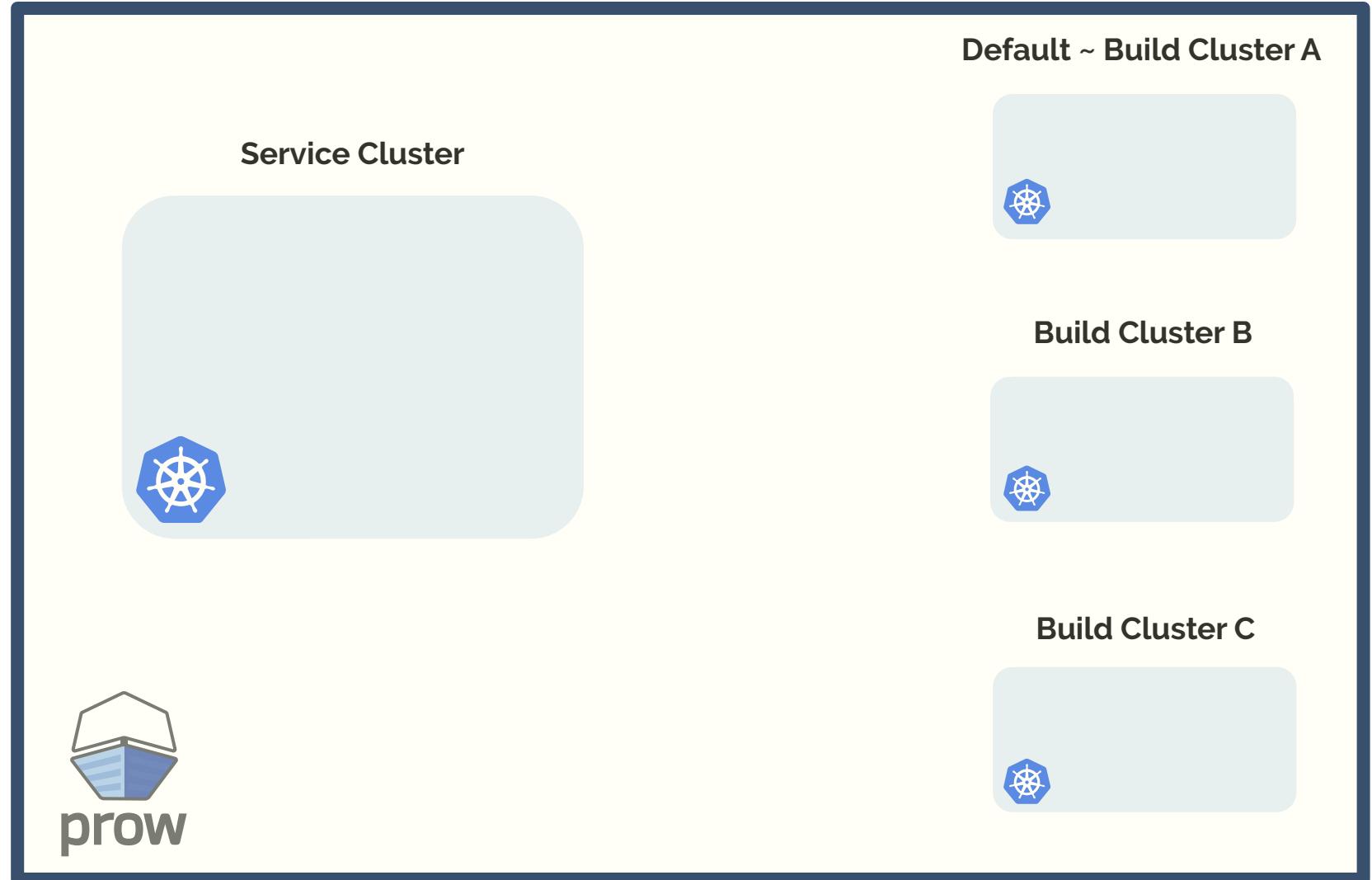
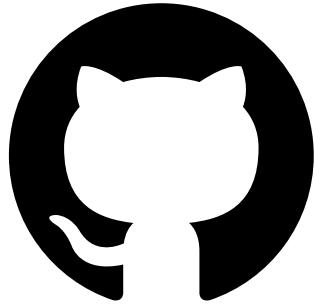
# **What is Prow?**

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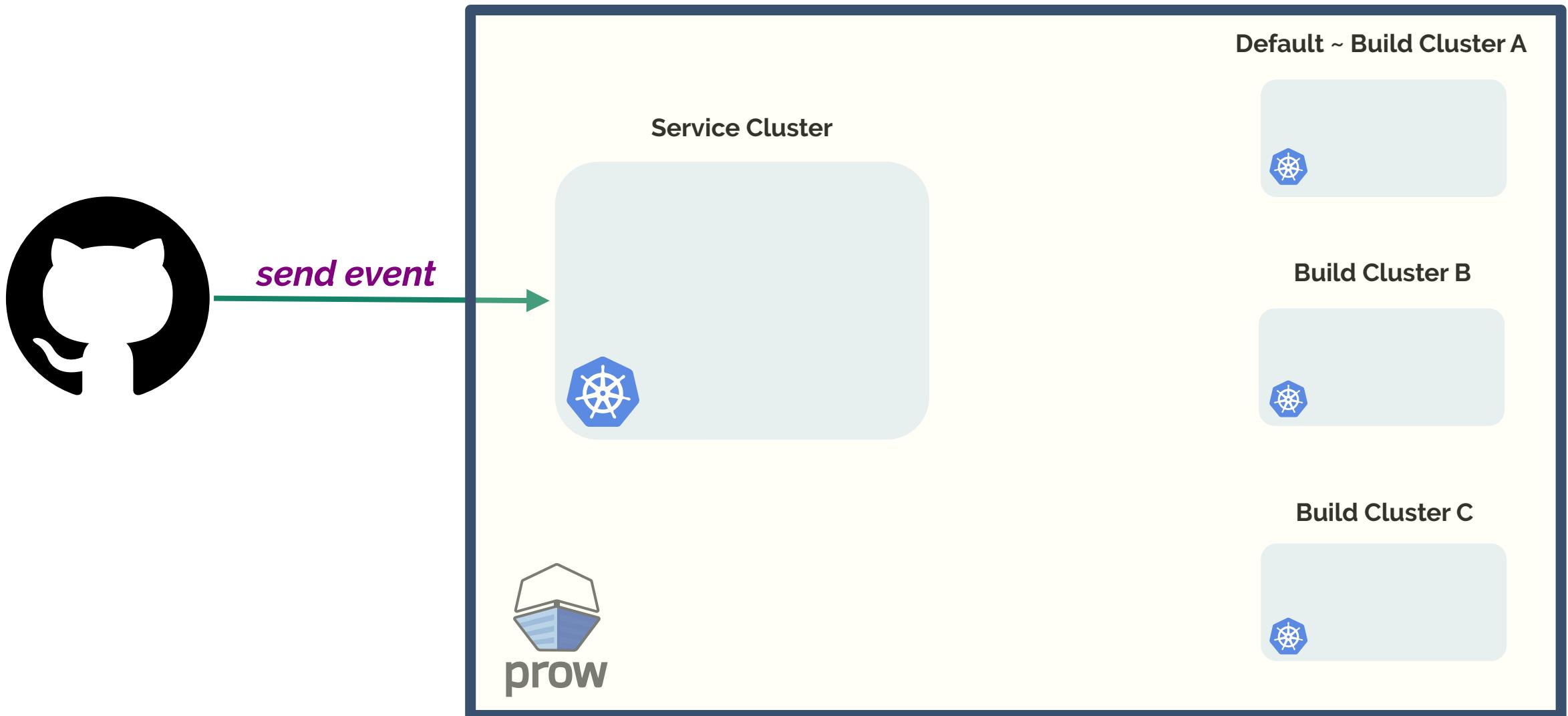
**A Kubernetes-centric CI/CD system  
from and for the Kubernetes community**

# **Prow (workflow)**

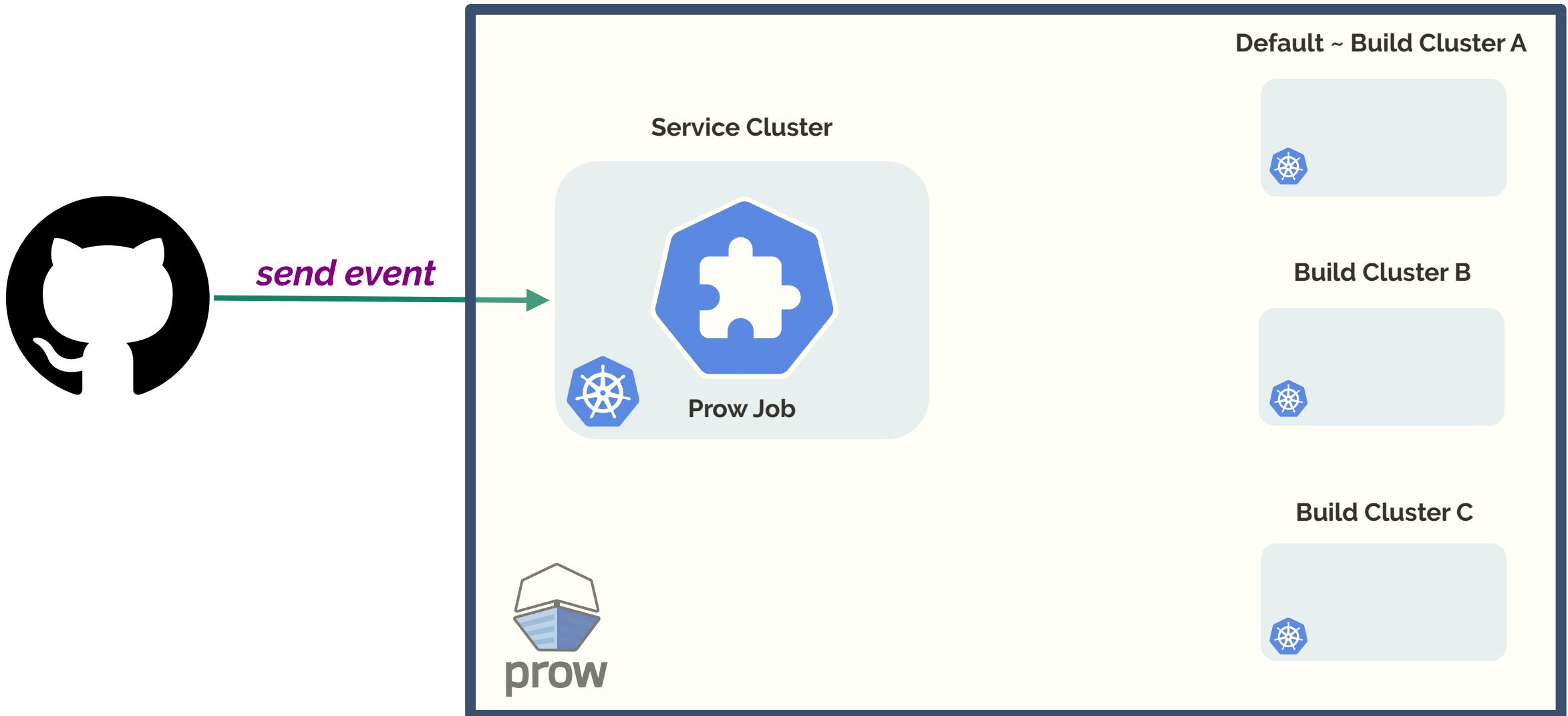
# Prow (workflow)



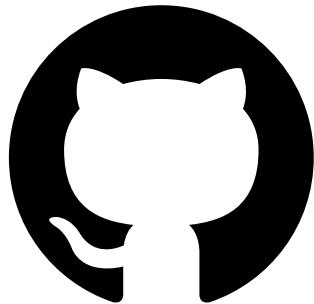
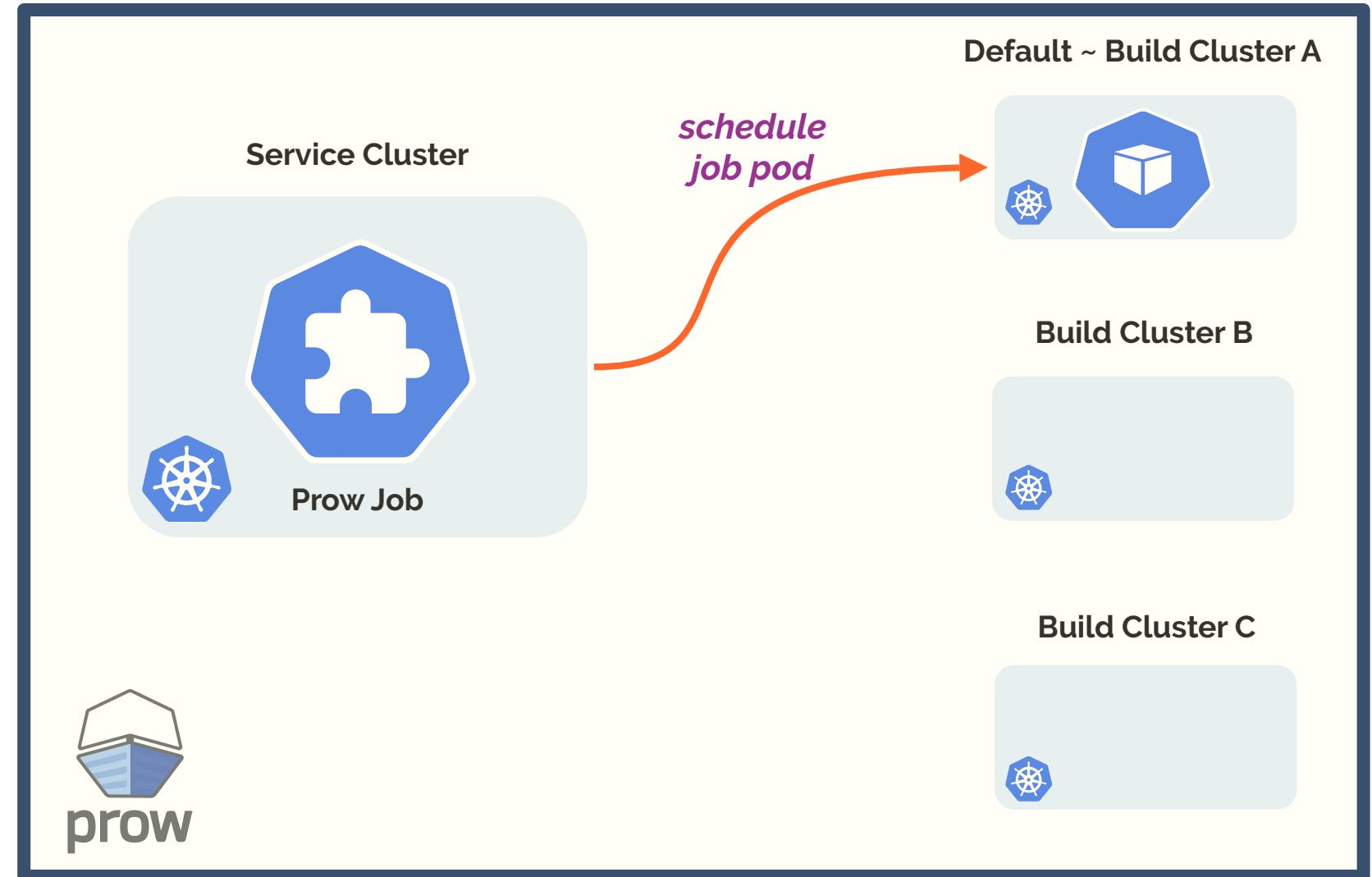
# Prow (workflow)



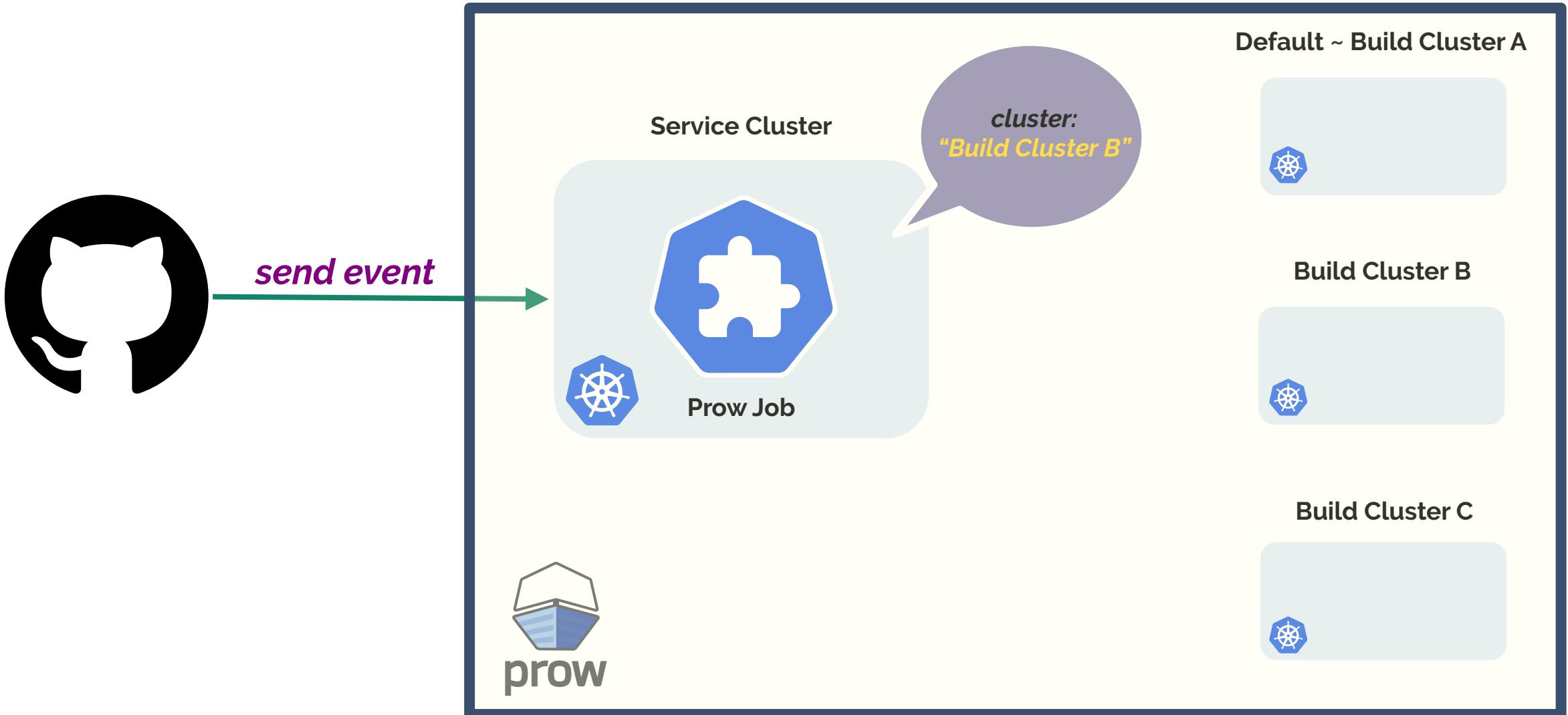
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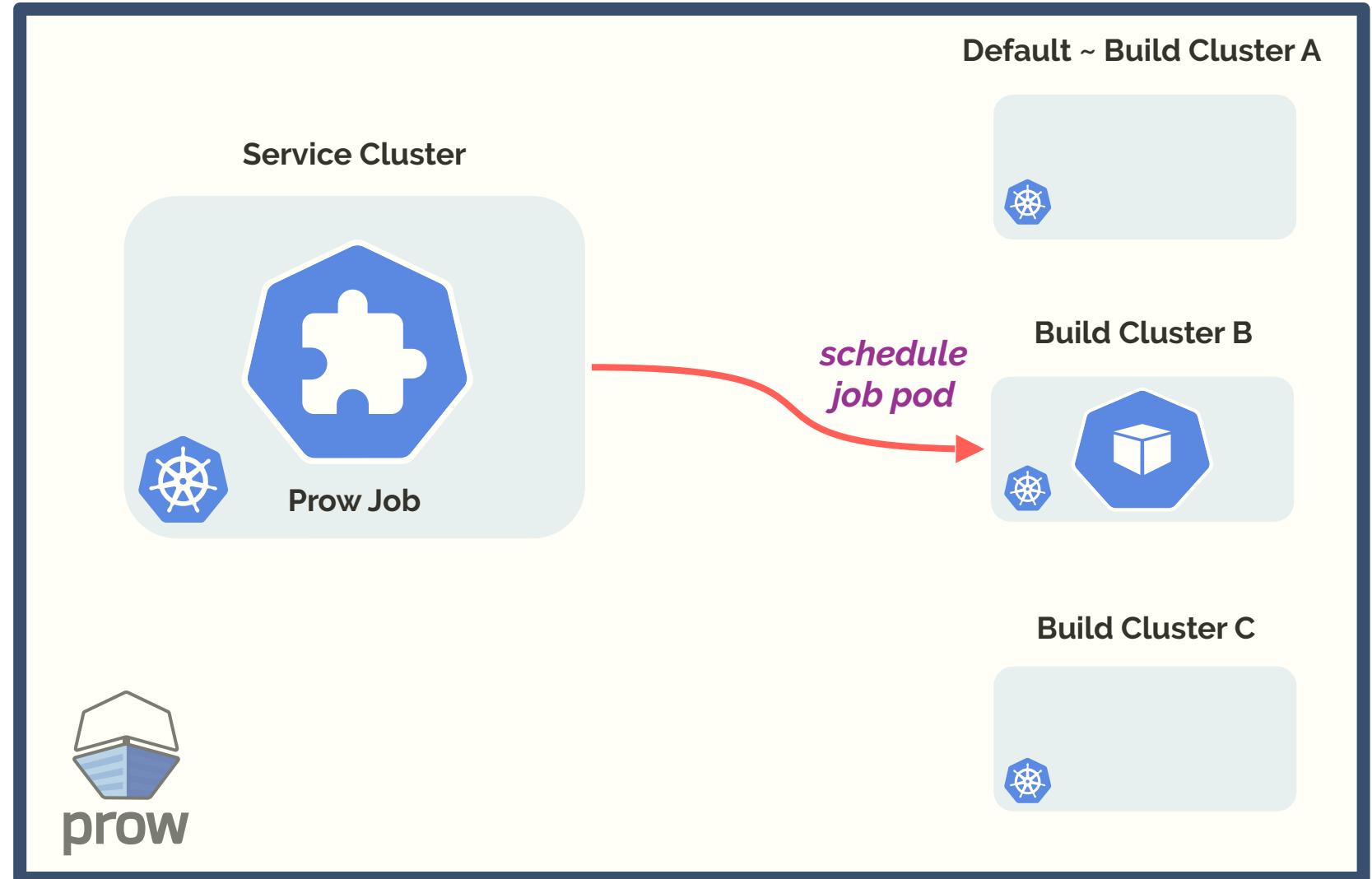
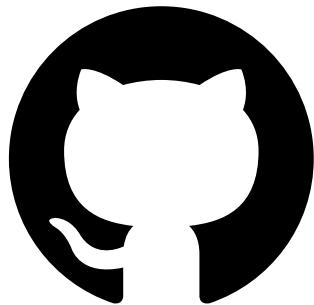
# Prow (workflow)



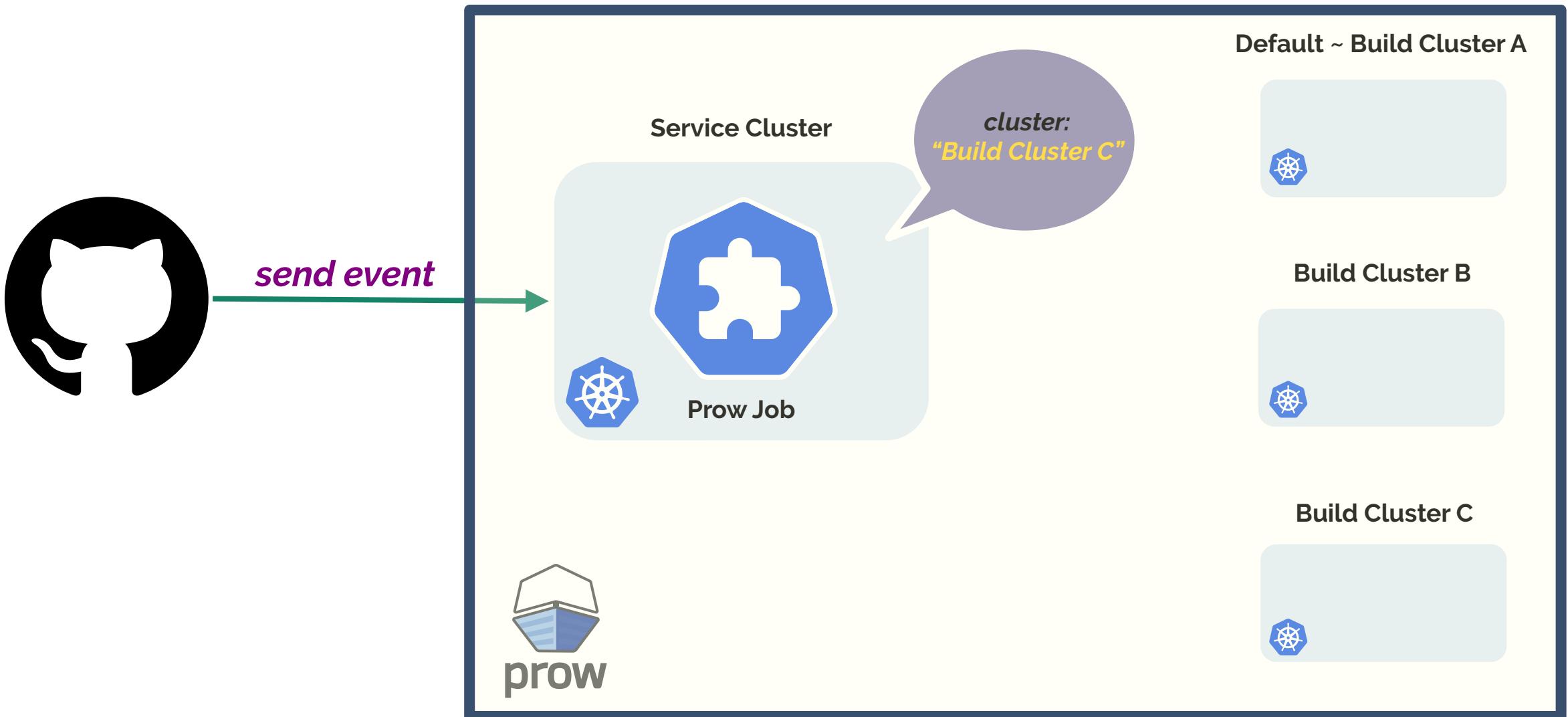
# Prow (workflow)



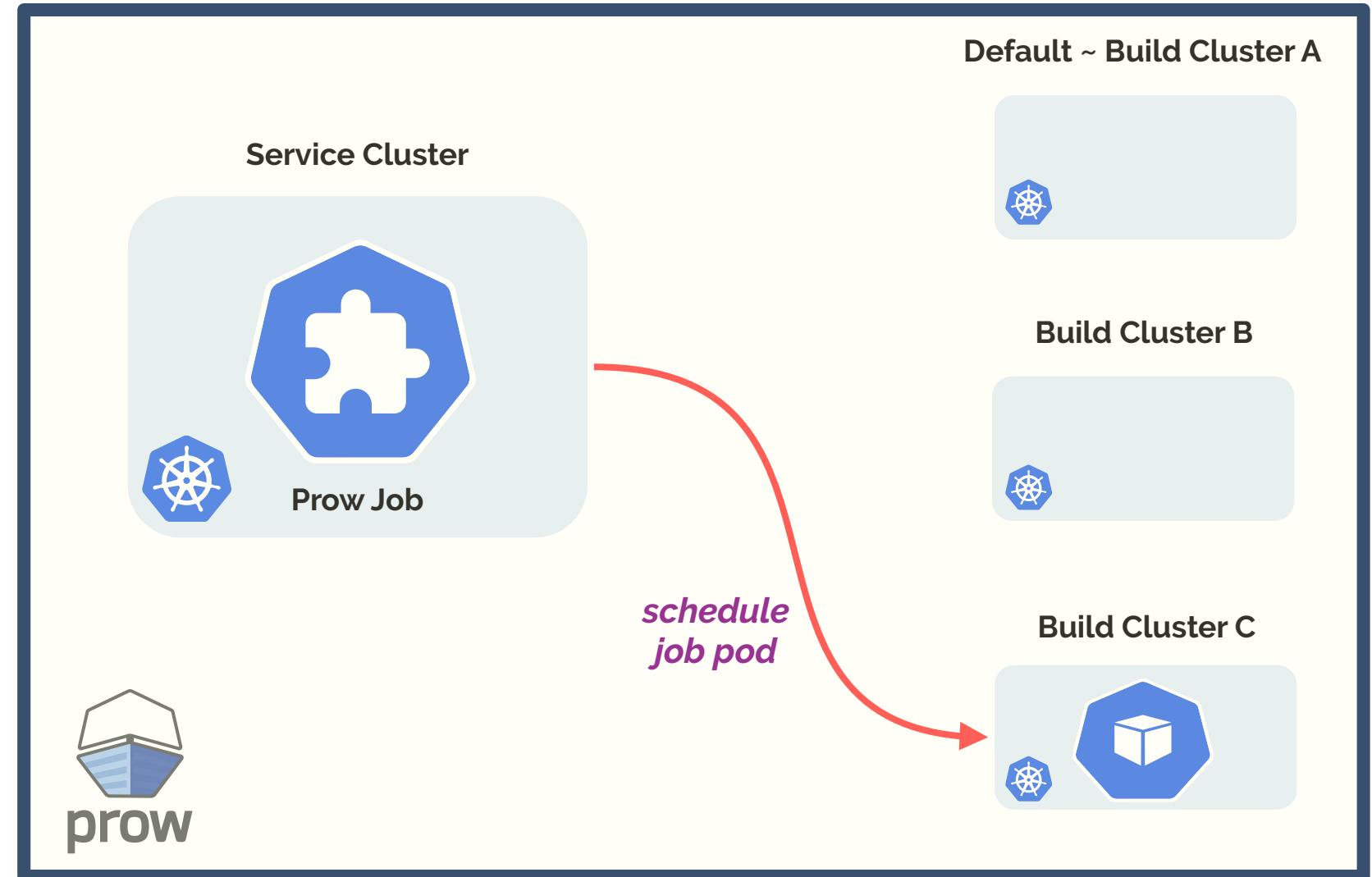
# Prow (workflow)



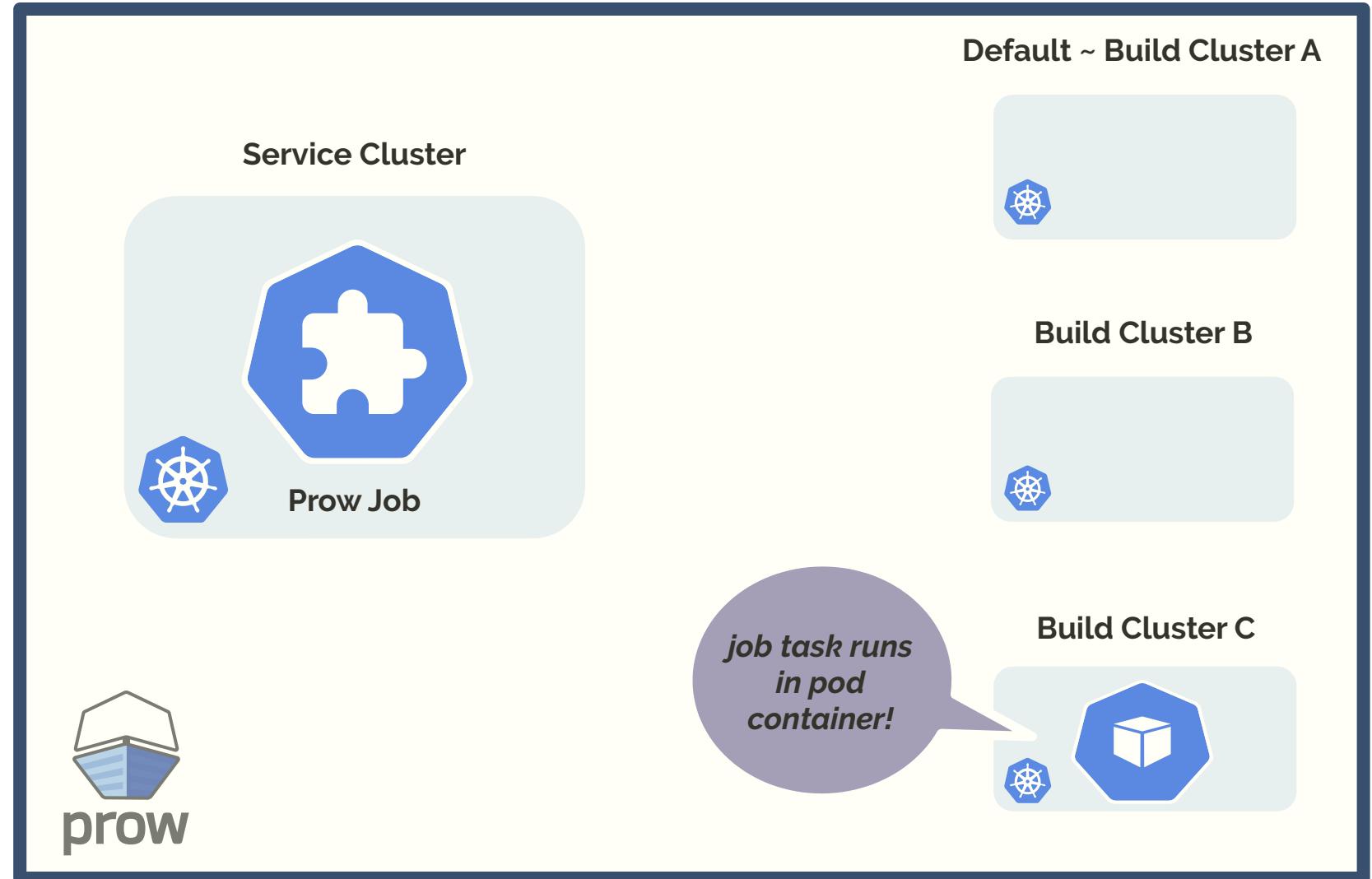
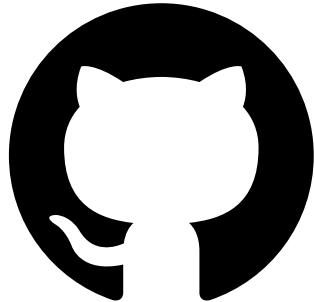
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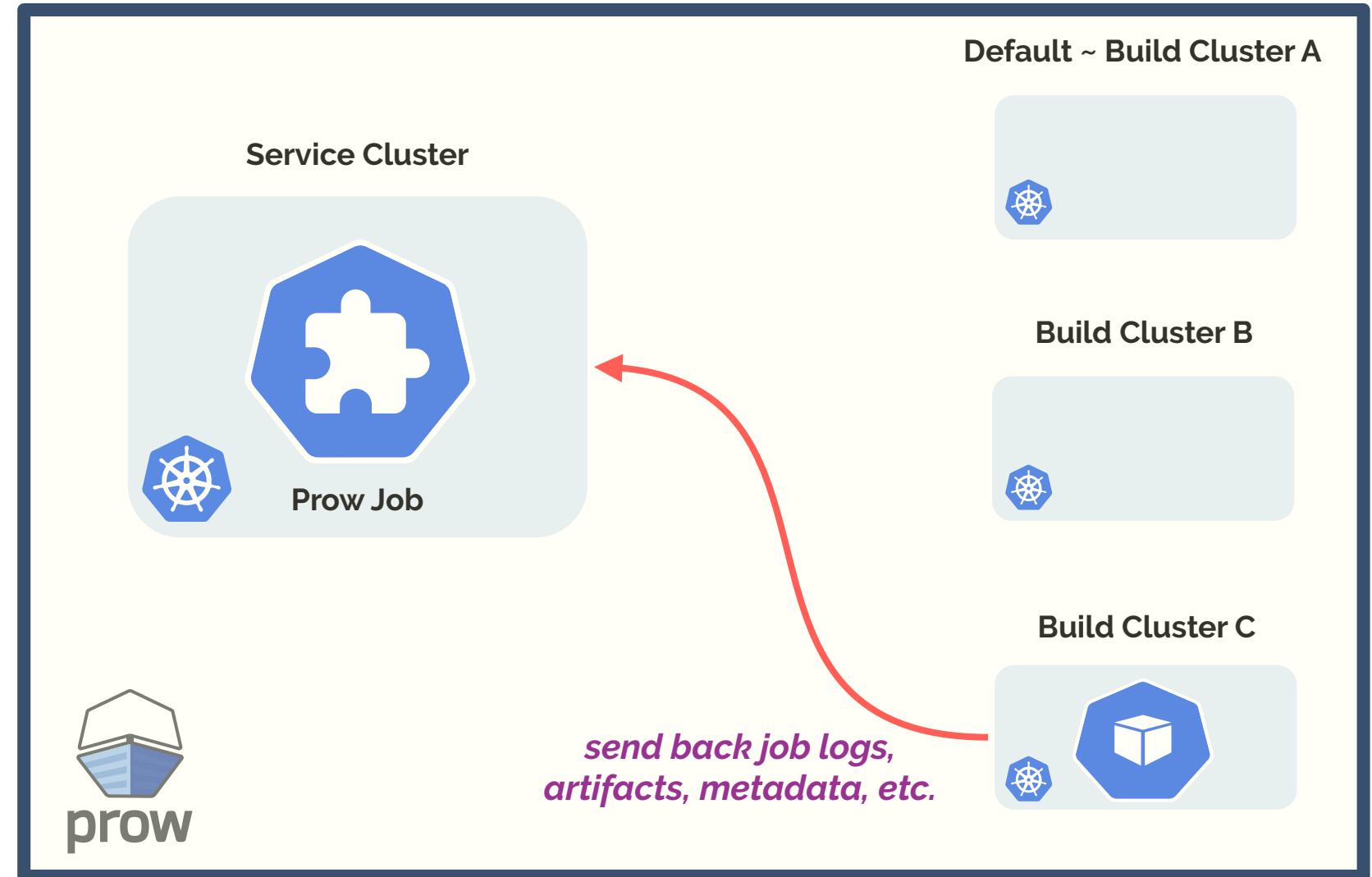
# Prow (workflow)



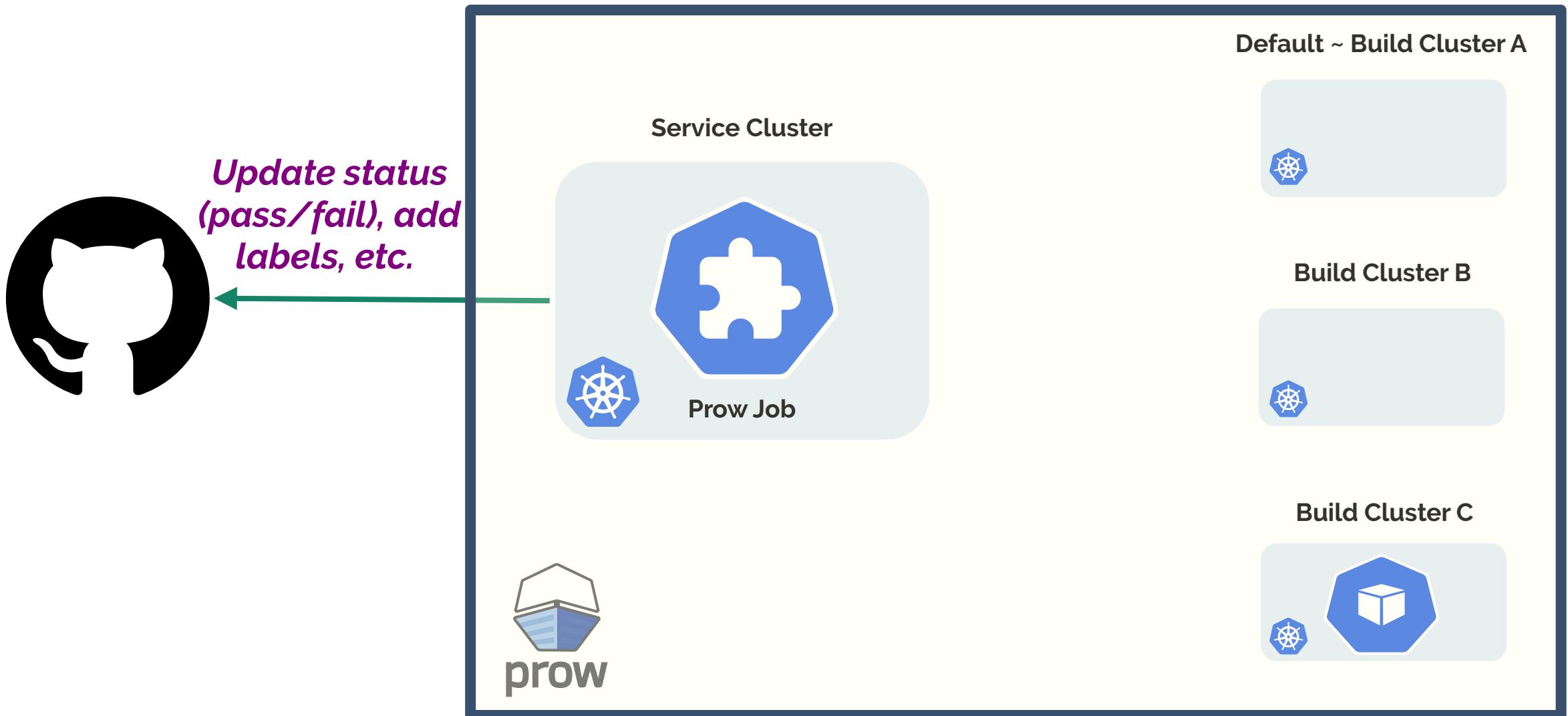
# Prow (workflow)



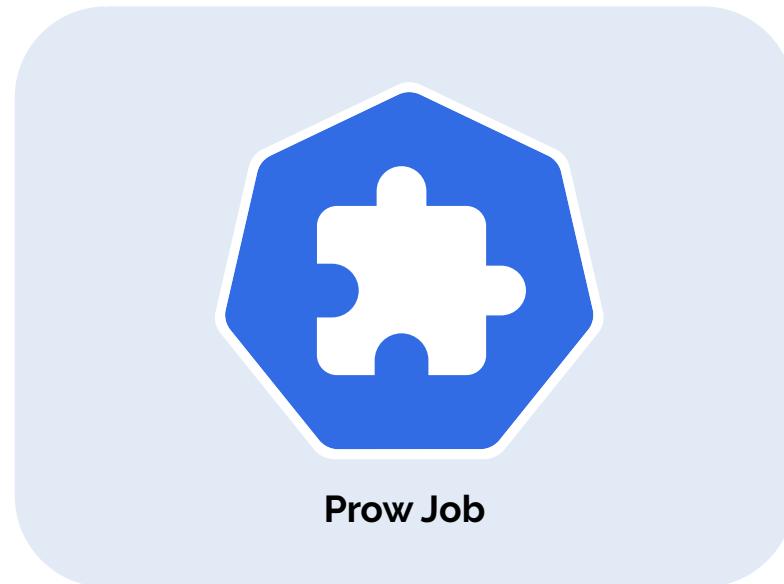
# Prow (workflow)



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*Kubernetes-native CI jobs*, managed by the Prow CI/CD system

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Automate testing, building, and deploying code  
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Jobs are defined using YAML files

Triggered by GitHub events such as pull requests,  
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Automate testing, building, and deploying code changes in a Kubernetes cluster (and more ...)

Jobs are defined using YAML files

Triggered by GitHub events such as pull requests, commits, or scheduled runs

# **Types of Prow Jobs**

# **Types of Prow jobs**

Presubmits

Postsubmits

Periodics

# Types of Prow jobs

Presubmits: *run against code in PR(s)*

Postsubmits

Periodics

# **Types of Prow jobs**

Presubmits

**Postsubmits:** *run after merging code*

Periodics

# Types of Prow jobs

Presubmits

Postsubmits

**Periodics:** *run on a periodic basis*

# Types of Prow jobs

Presubmits: *run against code in PR(s)*

Postsubmits: *run after merging code*

Periodics: *run on a periodic basis*

# **Anatomy of Prow Jobs**

# Anatomy: Periodics

```
1 periodics:  
2   - name: foo-job  
3     decorate: true  
4     interval: 1h  
5     extra_refs:  
6       - org: org  
7         repo: repo  
8         base_ref: main  
9         spec: {}
```

# Anatomy: Periodics

```
1 periodics: ← Job type identifier
2   - name: foo-job
3     decorate: true
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```

*Name of the Prow Job*

# Anatomy: Periodics

```
1 periodics:  
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```

*Enable Pod Utility Decoration*



**Podutils**



# Podutils

*Prov Job*

# Podutils

*Wrapper*

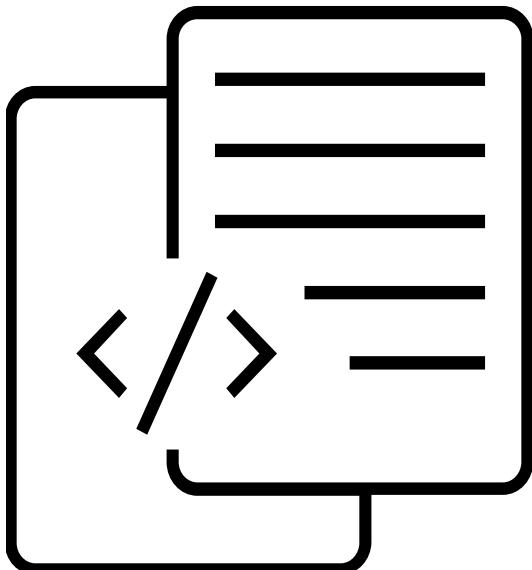
*Prov Job*

# Podutils

[docs.prow.k8s.io/docs/components/pod-utilities/#what-the-test-container-can-expect](https://docs.prow.k8s.io/docs/components/pod-utilities/#what-the-test-container-can-expect)

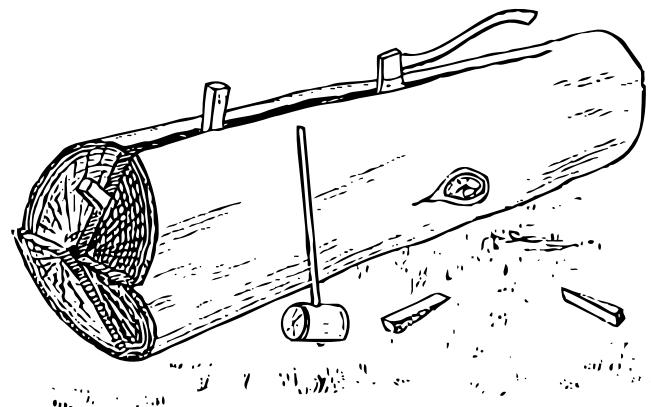
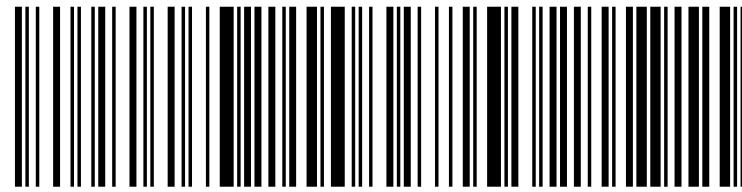
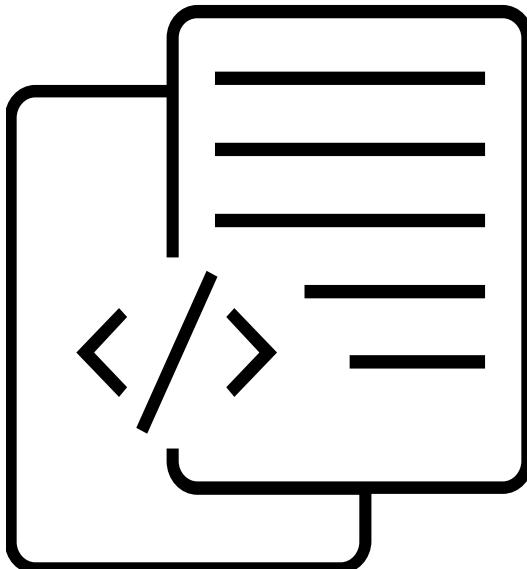
# Podutils

- Source code



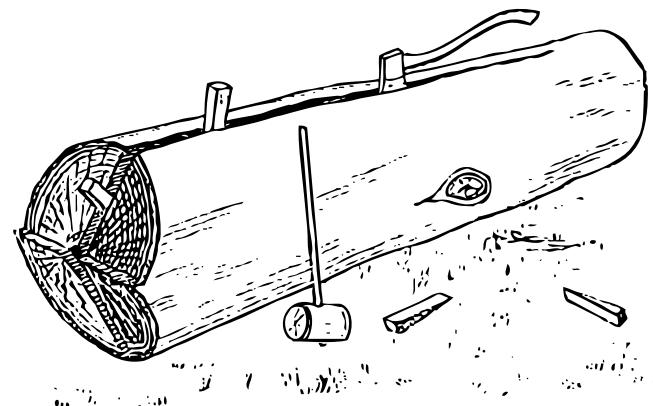
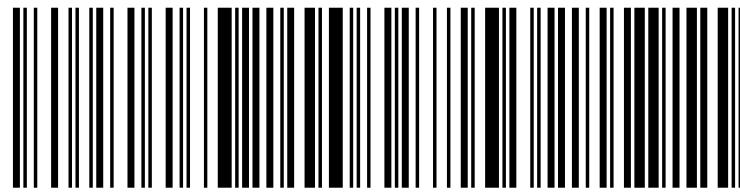
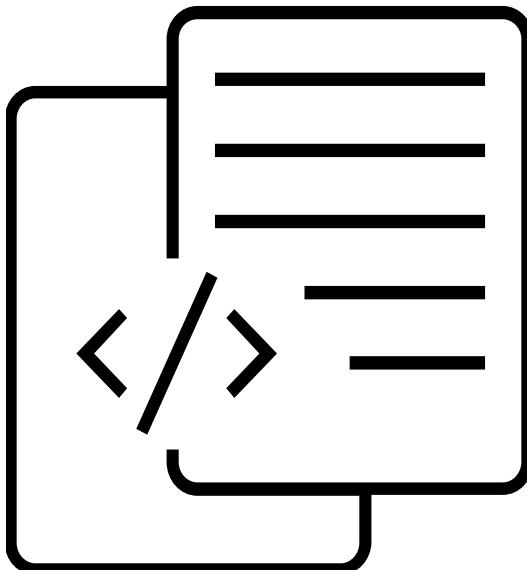
# Podutils

- Source code
- Metadata / Logs



# Podutils

- Source code
- Metadata / Logs
- Artifacts



# Anatomy: Periodics

```
1 periodics:  
2   - name: foo-job  
3     decorate: true  
4     interval: 1h  
5     extra_refs:  
6       - org: org  
7         repo: repo  
8         base_ref: main  
9         spec: {}
```

*How often the Job runs*

# Anatomy: Periodics

```
1 periodics:  
2   - name: foo-job  
3     decorate: true  
4     interval: 1h  
5     extra_refs:  
6       - org: org  
7         repo: repo  
8         base_ref: main  
9     spec: {}
```

*Data to clone the Repo*

# Anatomy: Periodics

```
1 periodics:  
2   - name: foo-job  
3     decorate: true  
4     interval: 1h  
5     extra_refs:  
6       - org: org  
7         repo: repo  
8         base_ref: main  
9         spec: {}
```

*Valid Kubernetes PodSpec*

# **Anatomy: Postsubmits**

# Anatomy: Postsubmits

```
1 postsubmits:  
2   org/repo:  
3     - name: bar-job  
4       decorate: true  
5       max_concurrency: 10  
6     branches:  
7       - ^main$  
8     skip_branches:  
9       - ^release-.*$  
10    spec: {}
```

# Anatomy: Postsubmits

```
1 postsubmits: ← Job type identifier
2   org/repo:
3     - name: bar-job
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5       max_concurrency: 10
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```

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```

*Identifier to checkout org/repo  
in the container*

# Anatomy: Postsubmits

```
1 postsubmits:  
2   org/repo:  
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6   branches:  
7     - ^main$  
8   skip_branches:  
9     - ^release-.*$  
10  spec: {}
```

*Same as periodics*

# Anatomy: Postsubmits

```
1 postsubmits:  
2   org/repo:  
3     - name: bar-job  
4       decorate: true  
5       max_concurrency: 10 ←  
6     branches:  
7       - ^main$  
8     skip_branches:  
9       - ^release-.*$  
10    spec: {}
```

*Run no more than this number of job instances, concurrently*

# Anatomy: Postsubmits

```
1 postsubmits:  
2   org/repo:  
3     - name: bar-job  
4       decorate: true  
5       max_concurrency: 10  
6       branches:  
7         - ^main$  
8       skip_branches:  
9         - ^release-.*$  
10      spec: {}
```

*Run only against these branches  
(specified using regexps)*

# Anatomy: Postsubmits

```
1 postsubmits:  
2   org/repo:  
3     - name: bar-job  
4       decorate: true  
5       max_concurrency: 10  
6     branches:  
7       - ^main$  
8     skip_branches:  
9       - ^release-.*$  
10    spec: {}
```

*Skip these branches  
(specified using regexps)*

# **Anatomy: Presubmits**

# Anatomy: Presubmits

```
1 presubmits:  
2   org/repo:  
3     - name: qux-job  
4       decorate: true  
5       always_run: true  
6       run_if_changed: "qux/.*"  
7       skip_report: true  
8       context: qux-job  
9       max_concurrency: 10  
10      branches: []  
11      skip_branches: []  
12      spec: {}
```

# Anatomy: Presubmits

```
1 presubmits: ← Job type identifier
2   org/repo:
3     - name: qux-job
4       decorate: true
5       always_run: true
6       run_if_changed: "qux/./*"
7       skip_report: true
8       context: qux-job
9       max_concurrency: 10
10      branches: []
11      skip_branches: []
12      spec: {}
```

# Anatomy: Presubmits

```
1 presubmits:  
2   org/repo: ←  
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*Identifier to checkout org/repo  
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# Anatomy: Presubmits

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8     context: qux-job  
9     max_concurrency: 10  
10    branches: []  
11    skip_branches: []  
12    spec: {}
```

*Same as periodics*

# Anatomy: Presubmits

```
1 presubmits:  
2   org/repo:  
3     - name: qux-job  
4       decorate: true  
5       always_run: true ←  
6       run_if_changed: "qux/.*"  
7       skip_report: true  
8       context: qux-job  
9       max_concurrency: 10  
10      branches: []  
11      skip_branches: []  
12      spec: {}
```

*Run for every PR  
(or only when requested)*

# Anatomy: Presubmits

```
1 presubmits:  
2   org/repo:  
3     - name: qux-job  
4       decorate: true  
5       always_run: true  
6       run_if_changed: "qux/.*" ←  
7       skip_report: true  
8       context: qux-job  
9       max_concurrency: 10  
10      branches: []  
11      skip_branches: []  
12      spec: {}
```

*Regexp, only run  
on certain changed files*

# Anatomy: Presubmits

```
1 presubmits:  
2   org/repo:  
3     - name: qux-job  
4       decorate: true  
5       always_run: true  
6       run_if_changed: "qux/.  
7       skip_report: true ←  
8       context: qux-job  
9       max_concurrency: 10  
10      branches: []  
11      skip_branches: []  
12      spec: {}
```

*Skip setting status on Github  
(or not)*

# Anatomy: Presubmits

```
1 presubmits:  
2   org/repo:  
3     - name: qux-job  
4       decorate: true  
5       always_run: true  
6       run_if_changed: "qux/.  
7       skip_report: true  
8       context: qux-job ← context: qux-job  
9       max_concurrency: 10  
10      branches: []  
11      skip_branches: []  
12      spec: {}
```

*Status Context*  
*Defaults to the job name*

# Anatomy: Presubmits

```
1 presubmits:  
2   org/repo:  
3     - name: qux-job  
4       decorate: true  
5       always_run: true  
6       run_if_changed: "qux/.  
7       skip_report: true  
8       context: qux-job  
9       max_concurrency: 10 }  
10      branches: [] ← Same as postsubmits  
11      skip_branches: []  
12      spec: {}
```

# **Presets**

# Presets

```
1  presets:
2    - labels:
3      preset-foo-bar: "true"
4    env:
5      - name: FOO
6        value: BAR
7    volumes:
8      - name: foo
9        emptyDir: {}
10     - name: bar
11       secret:
12         secretName: bar
13     volumeMounts:
14       - name: foo
15         mountPath: /etc/foo
16       - name: bar
17         mountPath: /etc/bar
18         readOnly: true
```

# Presets

```
1  presets: ← Identifier for Presets
2  - labels:
3    preset-foo-bar: "true"
4  env:
5    - name: FOO
6      value: BAR
7  volumes:
8    - name: foo
9      emptyDir: {}
10   - name: bar
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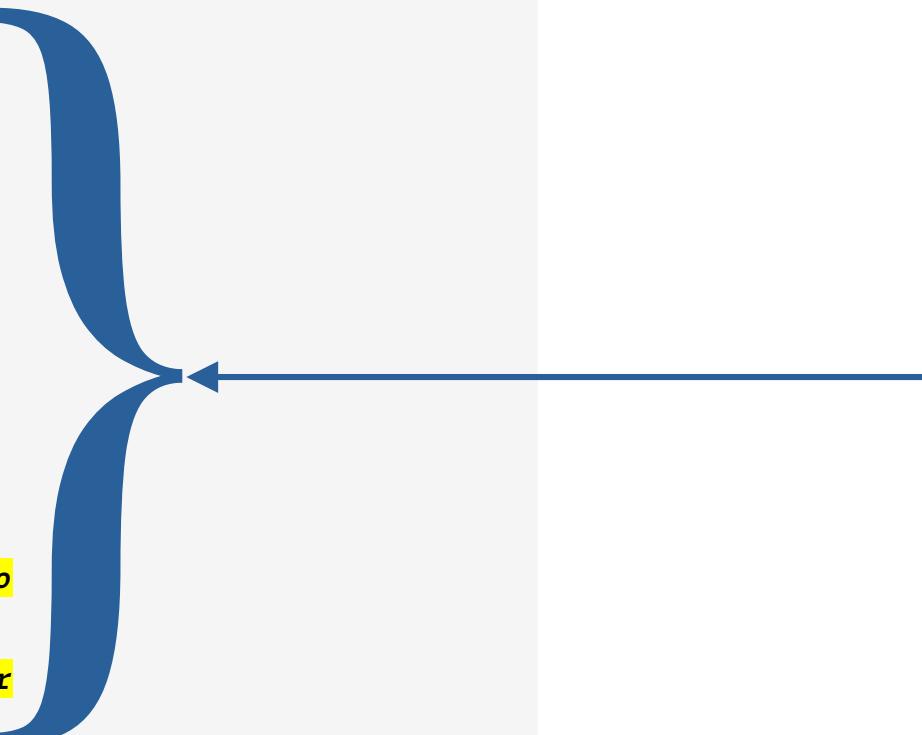
# Presets

```
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3     preset-foo-bar: "true"  
4 env:  
5   - name: FOO  
6     value: BAR  
7 volumes:  
8   - name: foo  
9     emptyDir: {}  
10  - name: bar  
11    secret:  
12      secretName: bar  
13 volumeMounts:  
14  - name: foo  
15    mountPath: /etc/foo  
16  - name: bar  
17    mountPath: /etc/bar  
18    readOnly: true
```

*A Job with these labels/values  
will have the Preset applied*

# Presets

```
1 presets:  
2   - labels:  
3     preset-foo-bar: "true"  
4     env:  
5       - name: FOO  
6         value: BAR  
7     volumes:  
8       - name: foo  
9         emptyDir: {}  
10      - name: bar  
11        secret:  
12          secretName: bar  
13        volumeMounts:  
14          - name: foo  
15            mountPath: /etc/foo  
16          - name: bar  
17            mountPath: /etc/bar  
18            readOnly: true
```



*All of this will be inserted  
into job container*

# **Job Environment Variables**

# Job Environment Variables

Prow provides *job-specific* environment variables which are *automatically injected into all containers within a Kubernetes pod*

# Job Environment Variables

Variable	Periodic	Postsubmit	Presubmit	Description
JOB_NAME	✓	✓	✓	Name of the job
JOB_TYPE	✓	✓	✓	Type of job
PROW_JOB_ID	✓	✓	✓	Unique identifier for the owning Prow Job
REPO_NAME		✓	✓	GitHub repo that triggered the job

For a complete list, check: [docs.prow.k8s.io/docs/jobs/#job-environment-variables](https://docs.prow.k8s.io/docs/jobs/#job-environment-variables)

**Now that we know ProwJobs**

**Let us ...**

# VISUALISE!

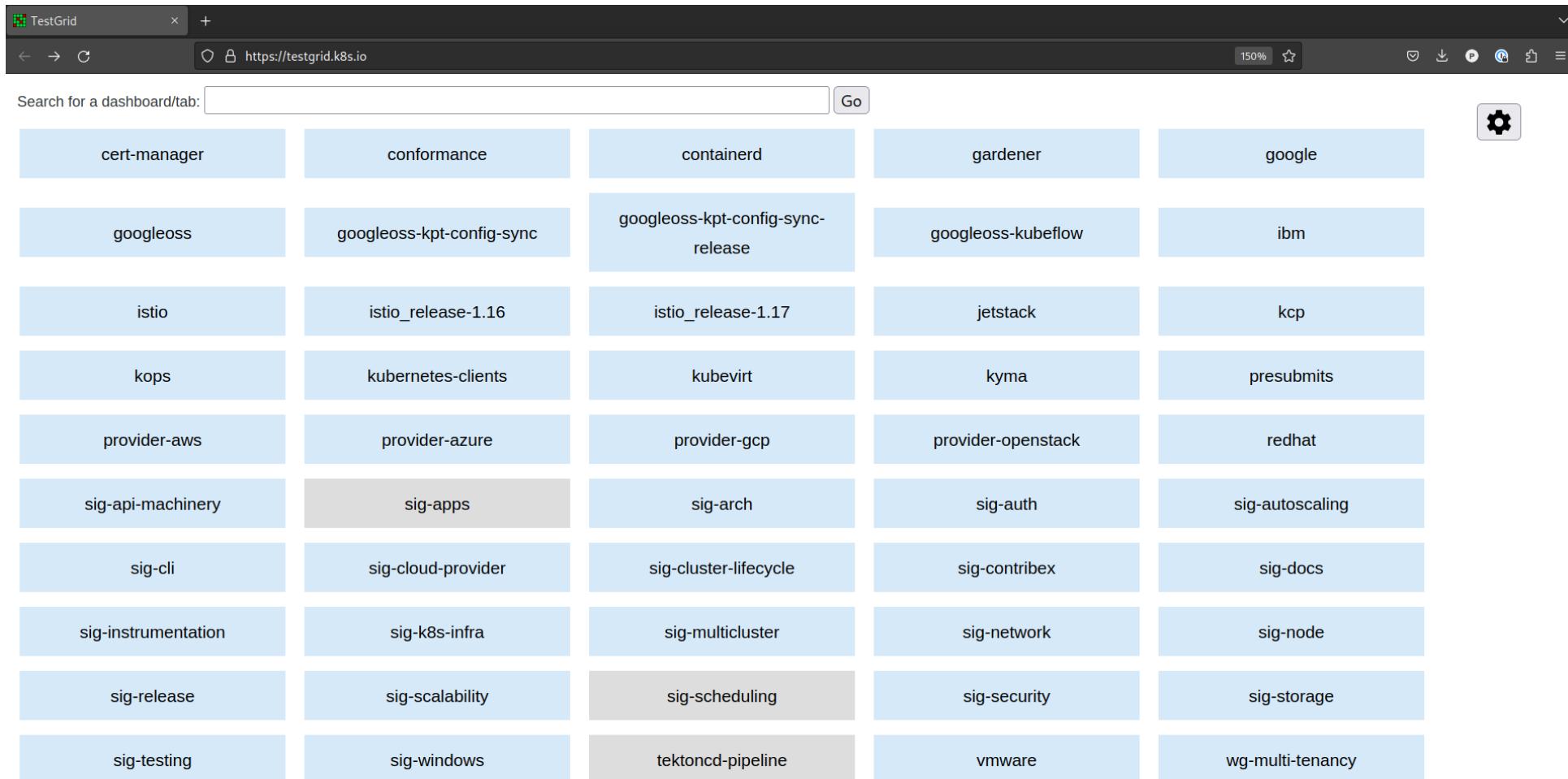


## ALL THE PROWJOBS

# **Testgrid**

**Testgrid**  
**( testgrid.k8s.io )**

# Testgrid (testgrid.k8s.io)



# Testgrid (testgrid.k8s.io)

The screenshot shows the Testgrid interface at <https://testgrid.k8s.io>. The dashboard is organized into a grid of tabs. A search bar at the top allows users to find specific dashboards or tabs. The tabs are arranged in four rows and five columns:

cert-manager	conformance	containerd	gardener	google
googleoss	googleoss-kpt-config-sync	googleoss-kpt-config-sync-release	googleoss-kubeflow	ibm
istio	istio_release-1.16	istio_release-1.17	jetstack	kcp
kops	kubernetes-clients	kubevirt	kyma	presubmits
provider-aws	provider-azure	provider-gcp	provider-openstack	redhat
sig-api-machinery	sig-apps	sig-arch	sig-auth	sig-autoscaling
sig-cli	sig-cloud-provider	sig-cluster-lifecycle	sig-contribex	sig-docs
sig-instrumentation	sig-k8s-infra	sig-multicluster	sig-network	sig-node
sig-release	sig-scalability	sig-scheduling	sig-security	sig-storage
sig-testing	sig-windows	tektoncd-pipeline	vmware	wg-multi-tenancy

A specific tab, **sig-contribex**, is highlighted with a yellow background. A blue arrow points from the text "Dashboard Group" to this highlighted tab.

**Dashboard Group**

# Testgrid (testgrid.k8s.io)

The screenshot shows the Testgrid interface at <https://testgrid.k8s.io>. The dashboard features a grid of tabs, each representing a different test suite or project. A large bracket on the right side groups several tabs under the heading "Dashboard Tabs".

Dashboard Tabs (grouped by bracket):

- sig-contribex-community
- sig-contribex-k8s-triage-robot
- sig-contribex-org
- sig-contribex-slack-infra
- sig-node
- sig-storage
- wg-multi-tenancy

Other visible tabs include:

- cert-manager
- conformance
- containerd
- gardener
- google
- googleoss
- googleoss-kpt-config-sync
- googleoss-kpt-config-sync-release
- googleoss-kubeflow
- ibm
- istio
- istio\_release-1.16
- istio\_release-1.17
- jetstack
- kcp
- kops
- kubernetes-clients
- kubevirt
- kyma
- presubmits
- provider-aws
- provider-azure
- provider-gcp
- provider-openstack
- redhat
- sig-api-machinery
- sig-apps
- sig-auth
- sig-autoscaling
- sig-cli
- sig-cloud-provider
- sig-cluster-lifecycle
- sig-docs
- sig-instrumentation
- sig-k8s-infra
- sig-multicloud
- sig-node
- sig-release
- sig-scalability
- sig-scheduling
- sig-storage
- sig-testing
- sig-windows
- tektoncd-pipeline

<https://testgrid.k8s.io/sig-contribex>

Dashboard  
Tabs

# Testgrid (testgrid.k8s.io)



## Dashboard Group sig-contribex :: Overview

Status	Dashboard	Health
	OVERALL	20 / 24 Tabs Passing
⊖	<a href="#">sig-contribex-community</a>	0 / 1 Passing (1 FLAKY)
✓	<a href="#">sig-contribex-k8s-triage-robot</a>	16 / 16 Passing (16 PASSING)
⊖	<a href="#">sig-contribex-org</a>	3 / 4 Passing (3 PASSING, 1 FLAKY)
⚠	<a href="#">sig-contribex-slack-infra</a>	1 / 3 Passing (1 PASSING, 1 FLAKY, 1 FAILING)

# Testgrid (testgrid.k8s.io)

The screenshot shows a web browser window titled "sig-contribex Test Grid" displaying the Testgrid interface at <https://testgrid.k8s.io/sig-contribex>. The main title is "Dashboard Group sig-contribex :: Overview". Below it is a table with four rows, each representing a dashboard category:

Status	Dashboard	Health
OVERALL		20 / 24 Tabs Passing
–	<a href="#">sig-contribex-community</a>	0 / 1 Passing (1 FLAKY)
✓	<a href="#">sig-contribex-k8s-triage-robot</a>	16 / 16 Passing (16 PASSING)

Below the table, there are two more rows:

–	<a href="#">sig-contribex-org</a>	3 / 4 Passing (3 PASSING, 1 FLAKY)
⚠	<a href="#">sig-contribex-slack-infra</a>	1 / 3 Passing (1 PASSING, 1 FLAKY, 1 FAILING)

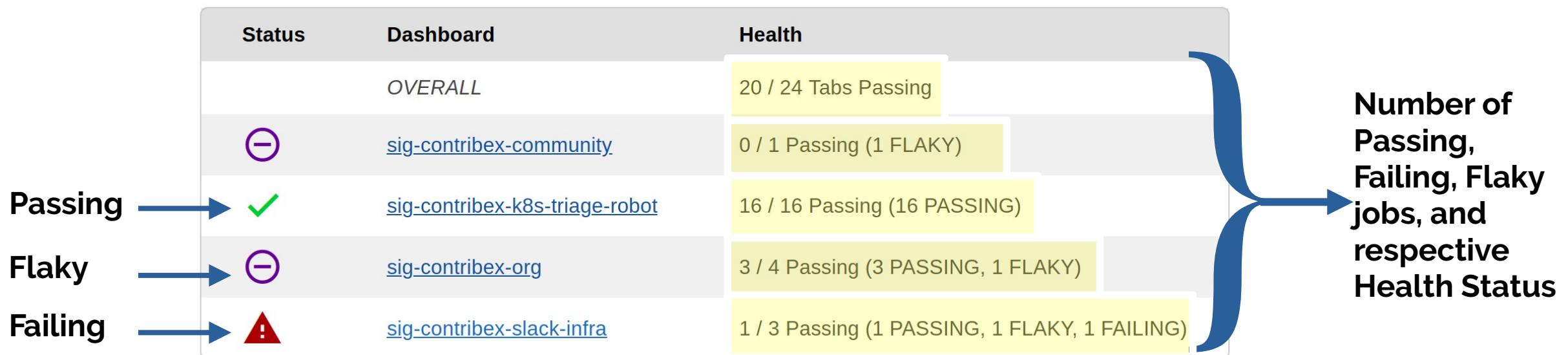
A large blue arrow points from the right side of the table towards the text "Dashboard Tabs" located on the right.

**Dashboard Tabs**

# Testgrid (testgrid.k8s.io)



## Dashboard Group sig-contribex :: Overview



# Testgrid (testgrid.k8s.io)



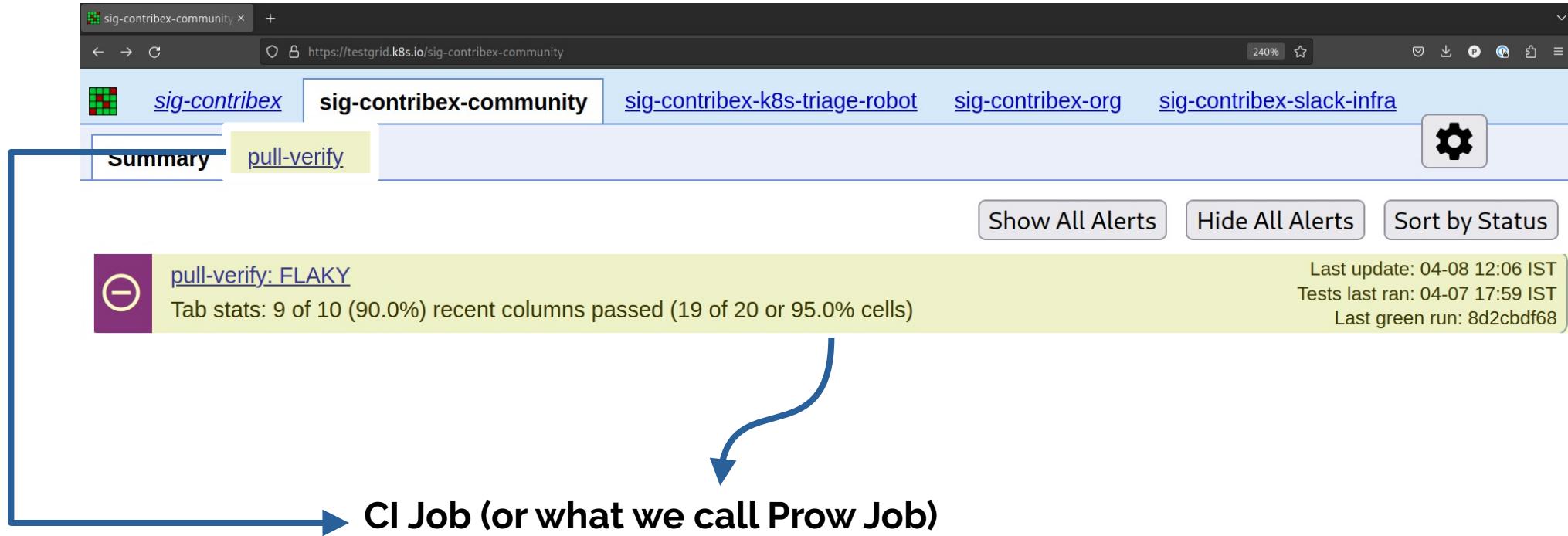
## Dashboard Group sig-contribex :: Overview

Status	Dashboard	Health
	OVERALL	20 / 24 Tabs Passing
⊖	<a href="#">sig-contribex-community</a>	0 / 1 Passing (1 FLAKY)
✓	<a href="#">sig-contribex-k8s-triage-robot</a>	16 / 16 Passing (16 PASSING)
⊖	<a href="#">sig-contribex-org</a>	3 / 4 Passing (3 PASSING, 1 FLAKY)
⚠	<a href="#">sig-contribex-slack-infra</a>	1 / 3 Passing (1 PASSING, 1 FLAKY, 1 FAILING)

# Testgrid (testgrid.k8s.io)

The screenshot shows a web browser window displaying the Testgrid interface at <https://testgrid.k8s.io/sig-contribex-community>. The title bar of the browser says "sig-contribex-community". The main content area shows a navigation bar with tabs: "sig-contribex" (selected), "sig-contribex-community" (highlighted in yellow), "sig-contribex-k8s-triage-robot", "sig-contribex-org", and "sig-contribex-slack-infra". Below the tabs, there are buttons for "Summary" (selected) and "pull-verify". On the right side of the summary section is a gear icon. At the bottom of the summary section, there are buttons for "Show All Alerts", "Hide All Alerts", and "Sort by Status". A purple button with a minus sign is visible on the left. The "pull-verify" section contains the text "pull-verify: FLAKY" and "Tab stats: 9 of 10 (90.0%) recent columns passed (19 of 20 or 95.0% cells)". To the right of this section are three timestamped status messages: "Last update: 04-08 12:06 IST", "Tests last ran: 04-07 17:59 IST", and "Last green run: 8d2cbdf68".

# Testgrid (testgrid.k8s.io)



# Testgrid (testgrid.k8s.io)

The screenshot shows a web browser window for the URL <https://testgrid.k8s.io/sig-contribex-community>. The page title is "sig-contribex-community". The navigation bar includes tabs for [sig-contribex](#), [sig-contribex-community](#) (which is active), [sig-contribex-k8s-triage-robot](#), [sig-contribex-org](#), and [sig-contribex-slack-infra](#). Below the tabs are buttons for [Summary](#) and [pull-verify](#) (which is highlighted). On the right side of the header is a gear icon for settings.

Below the header, there are three buttons: [Show All Alerts](#), [Hide All Alerts](#), and [Sort by Status](#).

The main content area has a purple header bar containing a minus sign icon and the text "pull-verify: FLAKY". Below this, a green bar displays "Tab stats: 9 of 10 (90.0%) recent columns passed (19 of 20 or 95.0% cells)". To the right of these bars, a status summary is shown: "Last update: 04-08 12:06 IST", "Tests last ran: 04-07 17:59 IST", and "Last green run: 8d2cbdf68".

# Testgrid (testgrid.k8s.io)

The screenshot shows a browser window titled "sig-contribex-community" displaying the Testgrid interface at <https://testgrid.k8s.io/sig-contribex-community#pull-verify>. The page title is "sig-contribex-community". The main navigation tabs are "sig-contribex", "sig-contribex-community" (which is active), "sig-contribex-k8s-triage-robot", "sig-contribex-org", and "sig-contribex-slack-infra". Below the tabs, there are buttons for "Summary" (selected) and "pull-verify" (disabled). A gear icon for settings is also present.

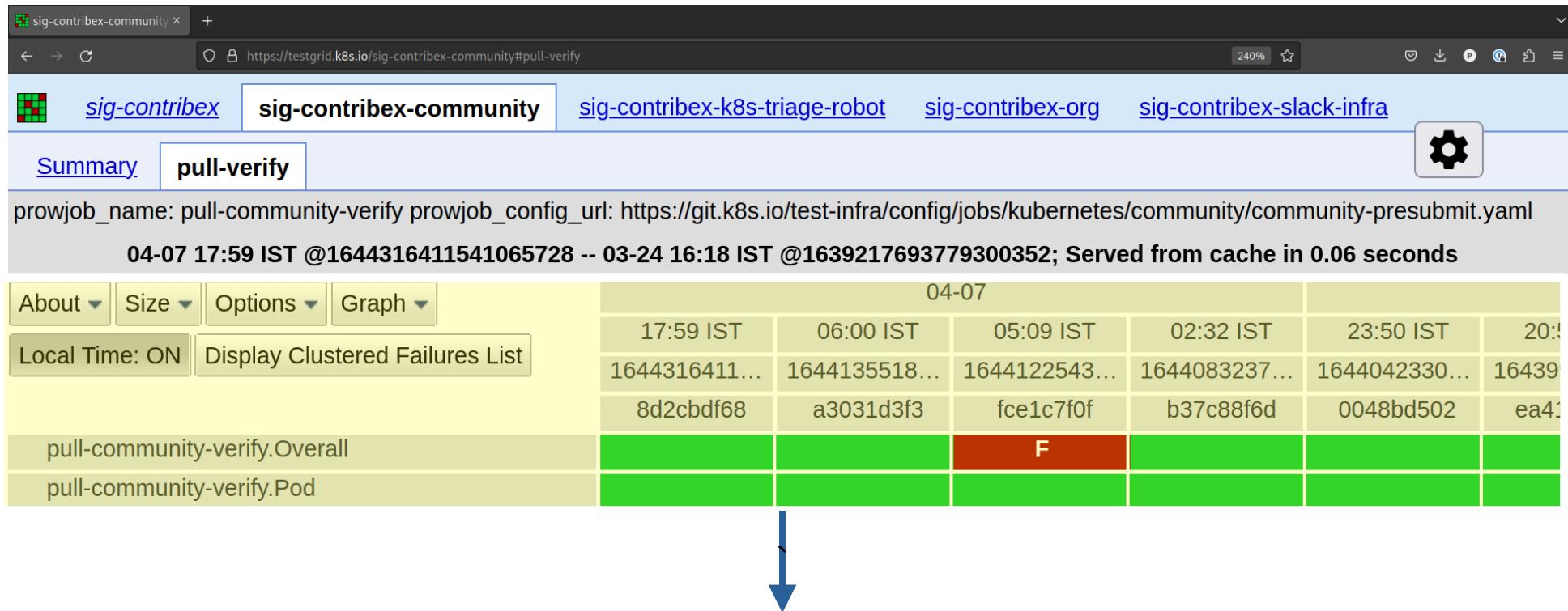
prowjob\_name: pull-community-verify prowjob\_config\_url: <https://git.k8s.io/test-infra/config/jobs/kubernetes/community/community-presubmit.yaml>

**04-07 17:59 IST @1644316411541065728 -- 03-24 16:18 IST @1639217693779300352; Served from cache in 0.06 seconds**

About ▾ Size ▾ Options ▾ Graph ▾ Local Time: ON Display Clustered Failures List

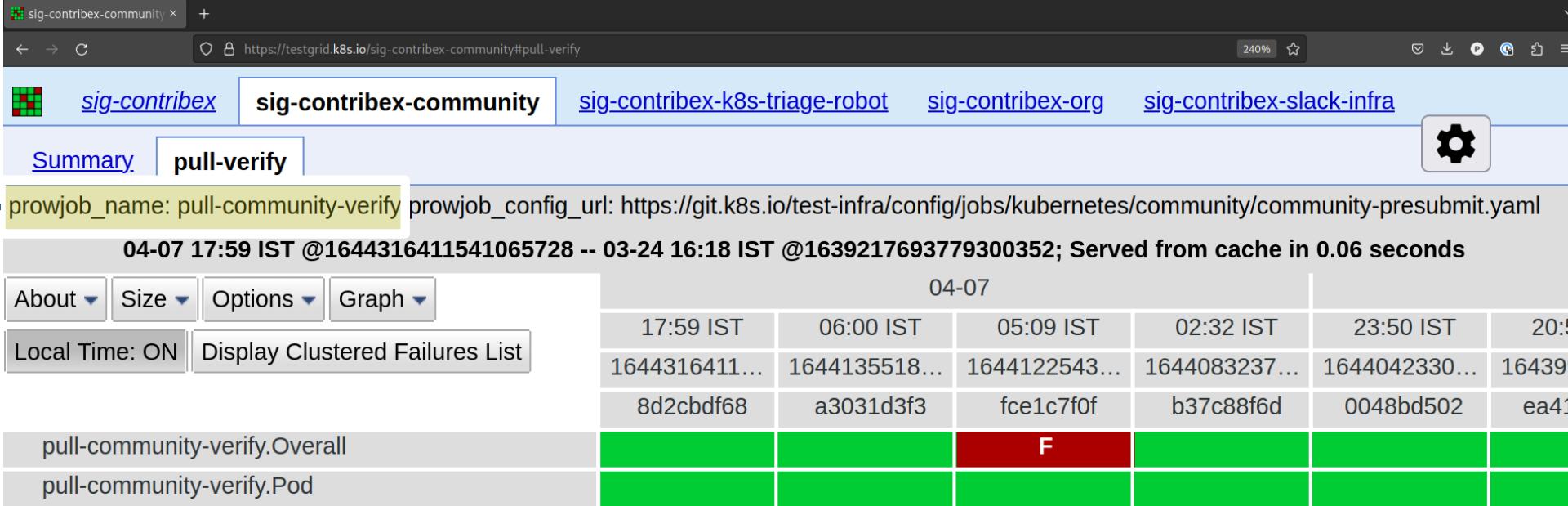
04-07					
17:59 IST	06:00 IST	05:09 IST	02:32 IST	23:50 IST	20:51 IST
1644316411541065728	1644135518...	1644122543...	1644083237...	1644042330...	164399...
8d2cbdf68	a3031d3f3	fce1c7f0f	b37c88f6d	0048bd502	ea413...
pull-community-verify.Overall		F			
pull-community-verify.Pod					

# Testgrid (testgrid.k8s.io)



Grid-like view of the performance of the job

# Testgrid (testgrid.k8s.io)



The screenshot shows a browser window for the Testgrid interface at <https://testgrid.k8s.io/sig-contribex-community#pull-verify>. The page title is "sig-contribex-community". The navigation bar includes links for [sig-contribex](#), [sig-contribex-community](#) (which is active), [sig-contribex-k8s-triage-robot](#), [sig-contribex-org](#), and [sig-contribex-slack-infra](#). A gear icon for settings is also present.

The main content area displays a "pull-verify" job configuration:

- prowjob\_name: pull-community-verify
- prowjob\_config\_url: <https://git.k8s.io/test-infra/config/jobs/kubernetes/community/community-presubmit.yaml>

A timestamp indicates the job was served from cache: **04-07 17:59 IST @1644316411541065728 -- 03-24 16:18 IST @1639217693779300352; Served from cache in 0.06 seconds**.

Job controls include "About", "Size", "Options", and "Graph" dropdowns, and buttons for "Local Time: ON" and "Display Clustered Failures List".

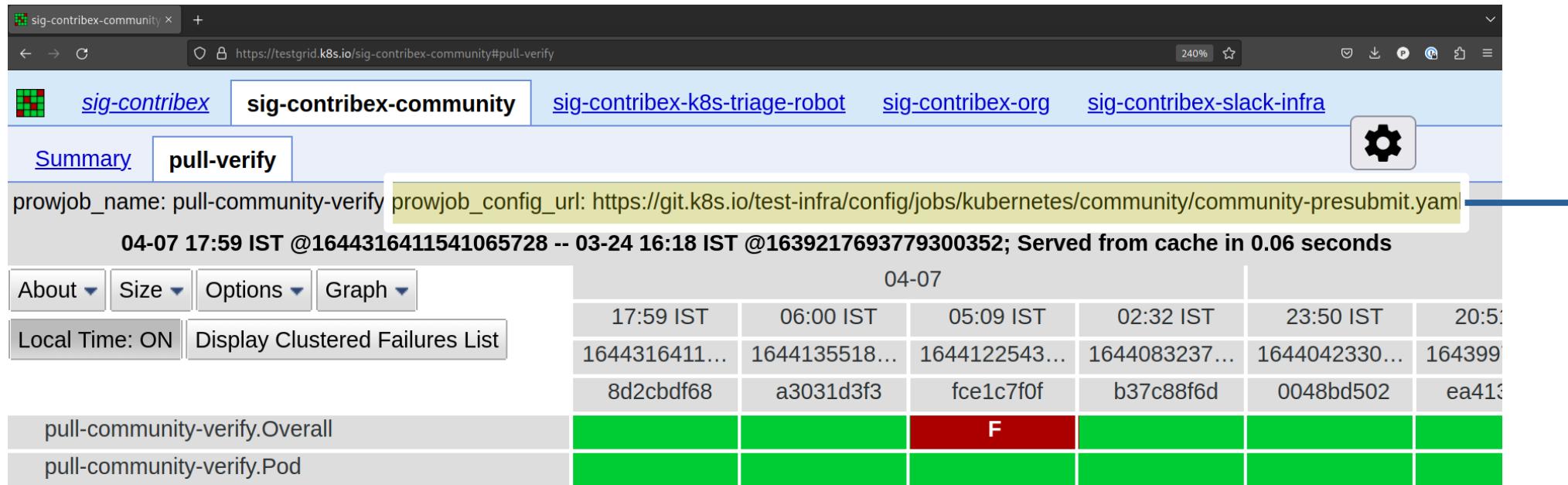
The results table for the "04-07" run shows six test runs:

	17:59 IST	06:00 IST	05:09 IST	02:32 IST	23:50 IST	20:51
1644316411...	1644135518...	1644122543...	1644083237...	1644042330...	164399	
8d2cbdf68	a3031d3f3	fce1c7f0f	b37c88f6d	0048bd502	ea413	
pull-community-verify.Overall			F			
pull-community-verify.Pod						

A blue arrow points from the bottom left towards the "Name of the Job" text below the table.

**Name of the Job**

# Testgrid (testgrid.k8s.io)



# URL to the Configuration of the Job

# Testgrid (testgrid.k8s.io)

The screenshot shows a GitHub repository page for `kubernetes/test-infra`. The repository is public, indicated by the "Public" badge. The main navigation bar includes links for Code, Issues (121), Pull requests (65), Actions, Projects (2), Security, and Insights. Below the navigation, a dropdown shows the branch `master`, and the file path `test-infra/config/jobs/kubernetes/community/community-presubmit.yaml` is displayed.

A pull request by `JohnTitor` titled "Update Go version on pull-community-verify" has been merged, indicated by a green checkmark icon.

The code editor shows the YAML configuration for the `community-presubmit`. The code is as follows:

```
presubmits:
  kubernetes/community:
    - name: pull-community-verify
      branches:
        - master
      always_run: true
      decorate: true
      spec:
        containers:
          - image: golang:1.18.2
            command:
              - sh
              - "-c"
              # Add GOPATH/bin back to PATH to workaround #9469
              - "export PATH=$PATH:$GOPATH/bin && make verify"
        annotations:
          testgrid-dashboards: sig-contribex-community
          testgrid-tab-name: pull-verify
```

<git.k8s.io/test-infra/config/jobs/kubernetes/community/community-presubmit.yaml>

# Testgrid (testgrid.k8s.io)

The screenshot shows a GitHub repository page for `kubernetes/test-infra`. The repository is public, has 121 issues, 65 pull requests, and 2 projects. A pull request by `JohnTitor` titled "Update Go version on pull-community-verify" has been merged. The code review shows a single commit with a green checkmark. The code editor displays the file `community-presubmit.yaml`, which contains YAML configuration for a presubmit job. The job runs a script to verify the code in a Golang container.

```
presubmits:
  kubernetes/community:
    - name: pull-community-verify
      branches:
        - master
      always_run: true
      decorate: true
      spec:
        containers:
          - image: golang:1.18.2
            command:
              - sh
              - "-c"
              # Add GOPATH/bin back to PATH to workaround #9469
              - "export PATH=$PATH:$GOPATH/bin && make verify"
        annotations:
          testgrid-dashboards: sig-contribex-community
          testgrid-tab-name: pull-verify
```

(presubmit job triggered on every PR)

- inside a Golang container,
- checkout k/community from master,
- and run "make verify" from the root

[git.k8s.io/test-infra/config/jobs/kubernetes/community/community-presubmit.yaml](https://git.k8s.io/test-infra/config/jobs/kubernetes/community/community-presubmit.yaml)

# Testgrid (testgrid.k8s.io)

The screenshot shows a browser window titled "sig-contribex-community" displaying the Testgrid interface at <https://testgrid.k8s.io/sig-contribex-community#pull-verify>. The page title is "sig-contribex-community". The main navigation tabs are "sig-contribex", "sig-contribex-community" (which is active), "sig-contribex-k8s-triage-robot", "sig-contribex-org", and "sig-contribex-slack-infra". Below the tabs, there are buttons for "Summary" (highlighted) and "pull-verify". A gear icon for settings is also present.

Below the tabs, the URL is displayed as `prowjob_name: pull-community-verify prowjob_config_url: https://git.k8s.io/test-infra/config/jobs/kubernetes/community/community-presubmit.yaml`.

A timestamp indicates the data was served from cache: **04-07 17:59 IST @1644316411541065728 -- 03-24 16:18 IST @1639217693779300352; Served from cache in 0.06 seconds**.

On the left, there are dropdown menus for "About", "Size", "Options", and "Graph", and buttons for "Local Time: ON" and "Display Clustered Failures List".

The main content area shows a grid of test results for the "pull-community-verify" job across different time periods. The columns represent specific test runs:

	17:59 IST	06:00 IST	05:09 IST	02:32 IST	23:50 IST	20:51
1644316411...	1644135518...	1644122543...	1644083237...	1644042330...	164399	
8d2cbdf68	a3031d3f3	fce1c7f0f	b37c88f6d	0048bd502	ea413	

Below the grid, two rows of labels are shown:

pull-community-verify.Overall			F			
pull-community-verify.Pod						

# Testgrid (testgrid.k8s.io)

The screenshot shows a dark-themed web interface for a Prow job named "pull-community-verify" with ID "#1644316411541065728".

At the top, there is a navigation bar with tabs: Job History, Prow Job YAML, PR History, PR, Artifacts, and Testgrid. The "Job History" tab is currently active.

A message at the top states: "Test started yesterday at 5:59 PM **passed** after 20s. ([more info](#))".

The main content area is titled "Build Log". It contains buttons for "Analyze", "Show all hidden lines", and a link to "Raw build-log.txt". Below these buttons, a message indicates "31 skipped lines...".

Below the build log, there is a section titled "Job Pod Info" with tabs for POD, VOLUMES, EVENTS, CLONEREFS, INITUPLOAD, PLACE-ENTRYPOINT, TEST, SIDECAR, and YAML. The "POD" tab is active.

# **Spyglass**

**Spyglass**  
**( prow.k8s.io )**

# Spyglass (prow.k8s.io)

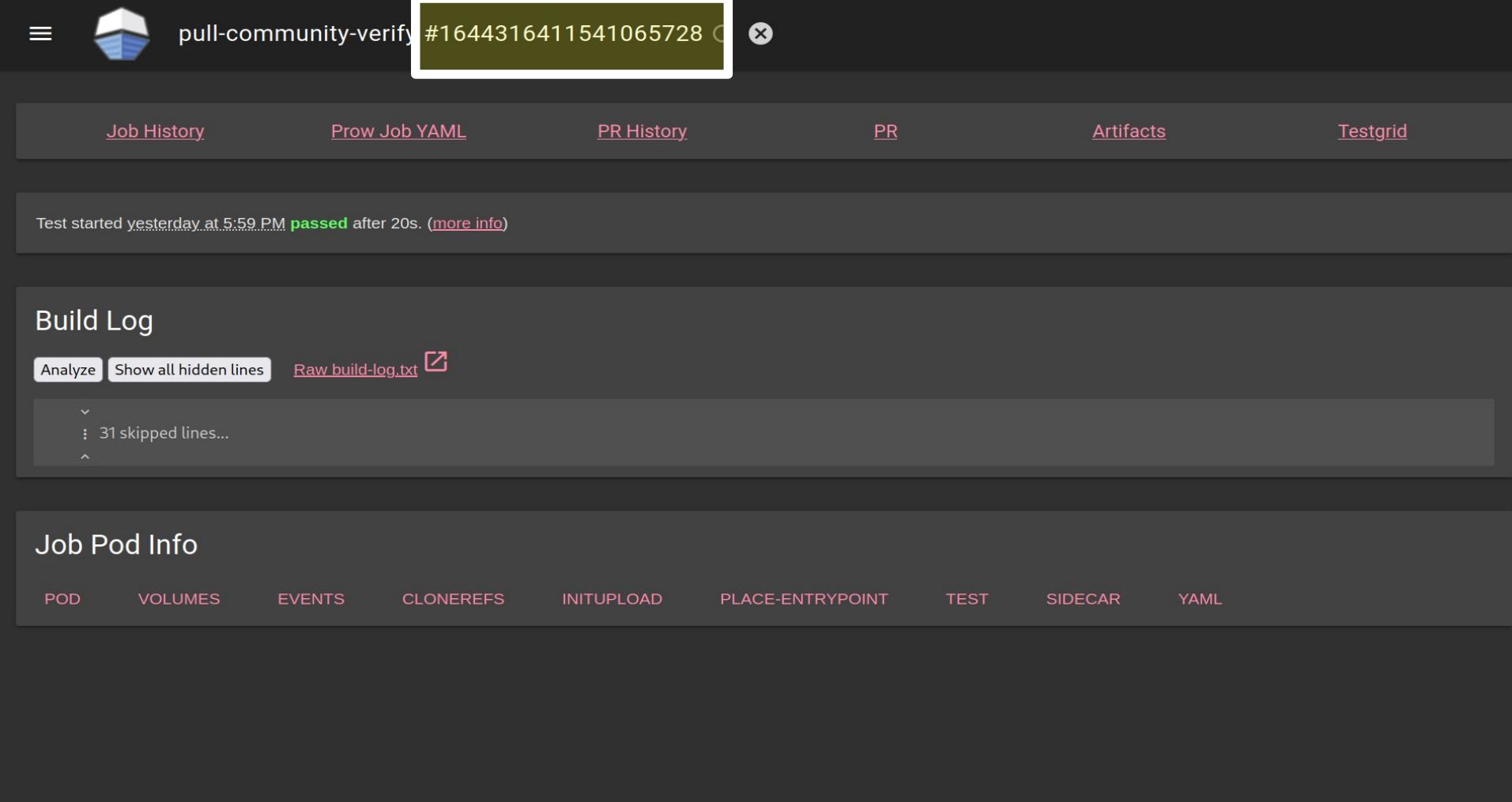
The screenshot shows a dark-themed web interface for a CI/CD pipeline. At the top, there's a header bar with a menu icon, a logo, the job name "pull-community-verify #1644316411541065728", and a close button. Below the header is a navigation bar with tabs: "Job History" (which is active), "Prow Job YAML", "PR History", "PR", "Artifacts", and "Testgrid".

In the main content area, a message states: "Test started yesterday at 5:59 PM **passed** after 20s. ([more info](#))".

A "Build Log" section contains buttons for "Analyze", "Show all hidden lines", and a link to "Raw build-log.txt". It also shows a collapsed log entry: "... 31 skipped lines...".

Below the build log is a "Job Pod Info" section with tabs for "POD" (which is active), "VOLUMES", "EVENTS", "CLONEREFS", "INITUPLOAD", "PLACE-ENTRYPOINT", "TEST", "SIDECAR", and "YAML".

# Spyglass (prow.k8s.io)



A screenshot of the Spyglass web interface. At the top, there is a navigation bar with a logo, the text "pull-community-verify", and a job ID "#1644316411541065728". Below the navigation bar is a horizontal menu with links: "Job History", "Prow Job YAML", "PR History", "PR", "Artifacts", and "Testgrid". A large blue arrow points downwards from the top left towards the "Job run instance ID" section. In the "Job run instance ID" section, there is a message: "Test started yesterday at 5:59 PM **passed** after 20s. ([more info](#))". Below this, there is a "Build Log" section containing a log viewer with buttons for "Analyze", "Show all hidden lines", and "Raw build-log.txt". The log viewer shows a summary: "31 skipped lines...". At the bottom, there is a "Job Pod Info" section with tabs for "POD", "VOLUMES", "EVENTS", "CLONEREFS", "INITUPLOAD", "PLACE-ENTRYPOINT", "TEST", "SIDECAR", and "YAML".

Job run instance ID

Test started yesterday at 5:59 PM **passed** after 20s. ([more info](#))

Build Log

Analyze Show all hidden lines Raw build-log.txt ↗

31 skipped lines...

Job Pod Info

POD VOLUMES EVENTS CLONEREFS INITUPLOAD PLACE-ENTRYPOINT TEST SIDECAR YAML

# Spyglass (prow.k8s.io)

The screenshot shows the Spyglass interface for a Prow job named "pull-community-verify #1644316411541065728". The top navigation bar includes links for "Job History", "Prow Job YAML", "PR History", "PR", "Artifacts", and "Testgrid". A prominent green banner at the top states: "Test started yesterday at 5:59 PM **passed** after 20s. ([more info](#))". A blue arrow points from the left margin to this banner area, with the text "Job status (running / finished / failed)" positioned below it. Below the banner, the "Build Log" section contains buttons for "Analyze", "Show all hidden lines", and a link to "Raw build-log.txt". A collapsed log entry shows "31 skipped lines...". The "Job Pod Info" section at the bottom includes tabs for "POD", "VOLUMES", "EVENTS", "CLONEREFS", "INITUPLOAD", "PLACE-ENTRYPOINT", "TEST", "SIDECAR", and "YAML".

Job status (running / finished / failed)

Job History    Prow Job YAML    PR History    PR    Artifacts    Testgrid

Test started yesterday at 5:59 PM **passed** after 20s. ([more info](#))

Build Log

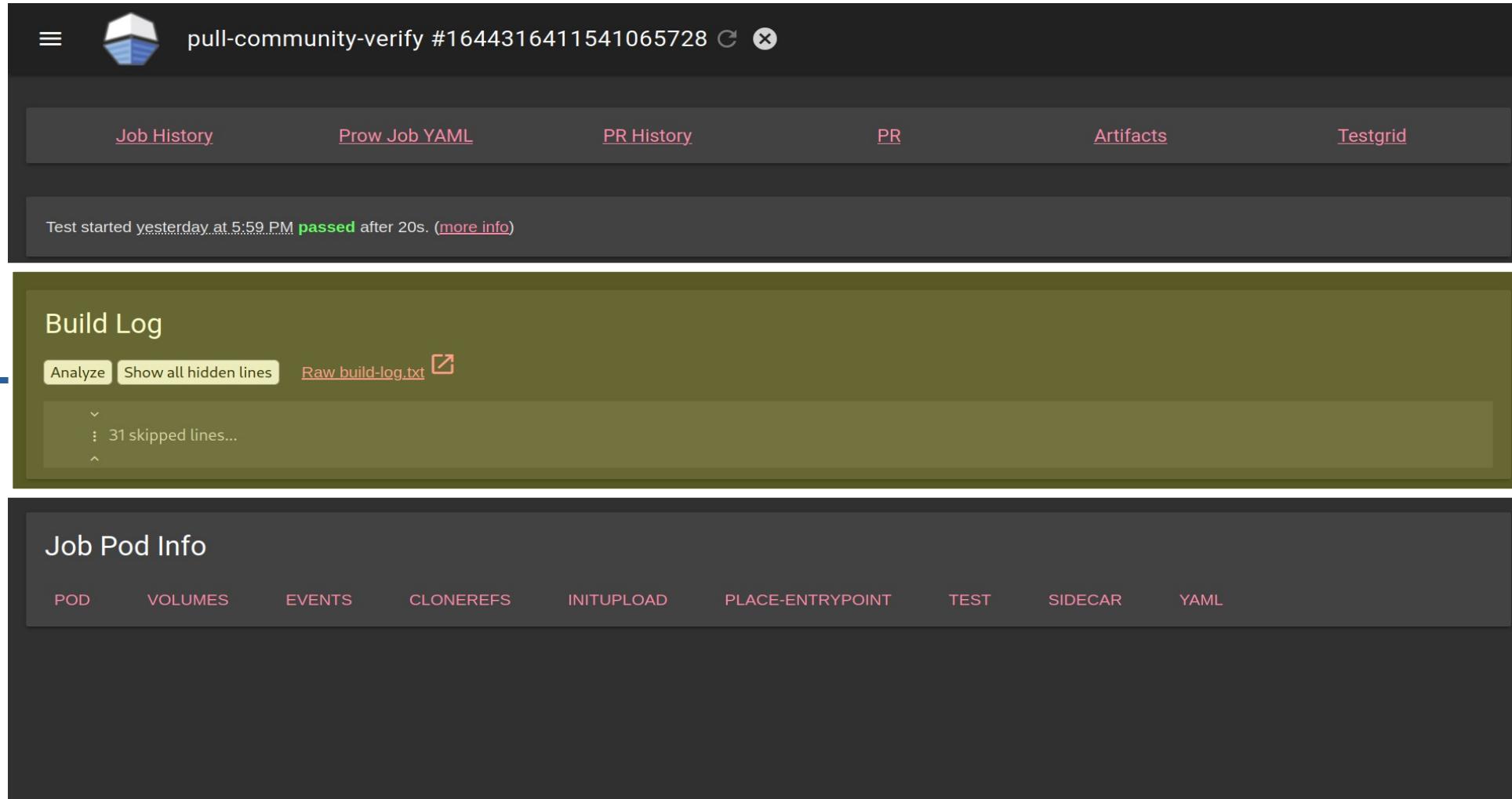
Analyze Show all hidden lines [Raw build-log.txt](#)

31 skipped lines...

Job Pod Info

POD VOLUMES EVENTS CLONEREFS INITUPLOAD PLACE-ENTRYPOINT TEST SIDECAR YAML

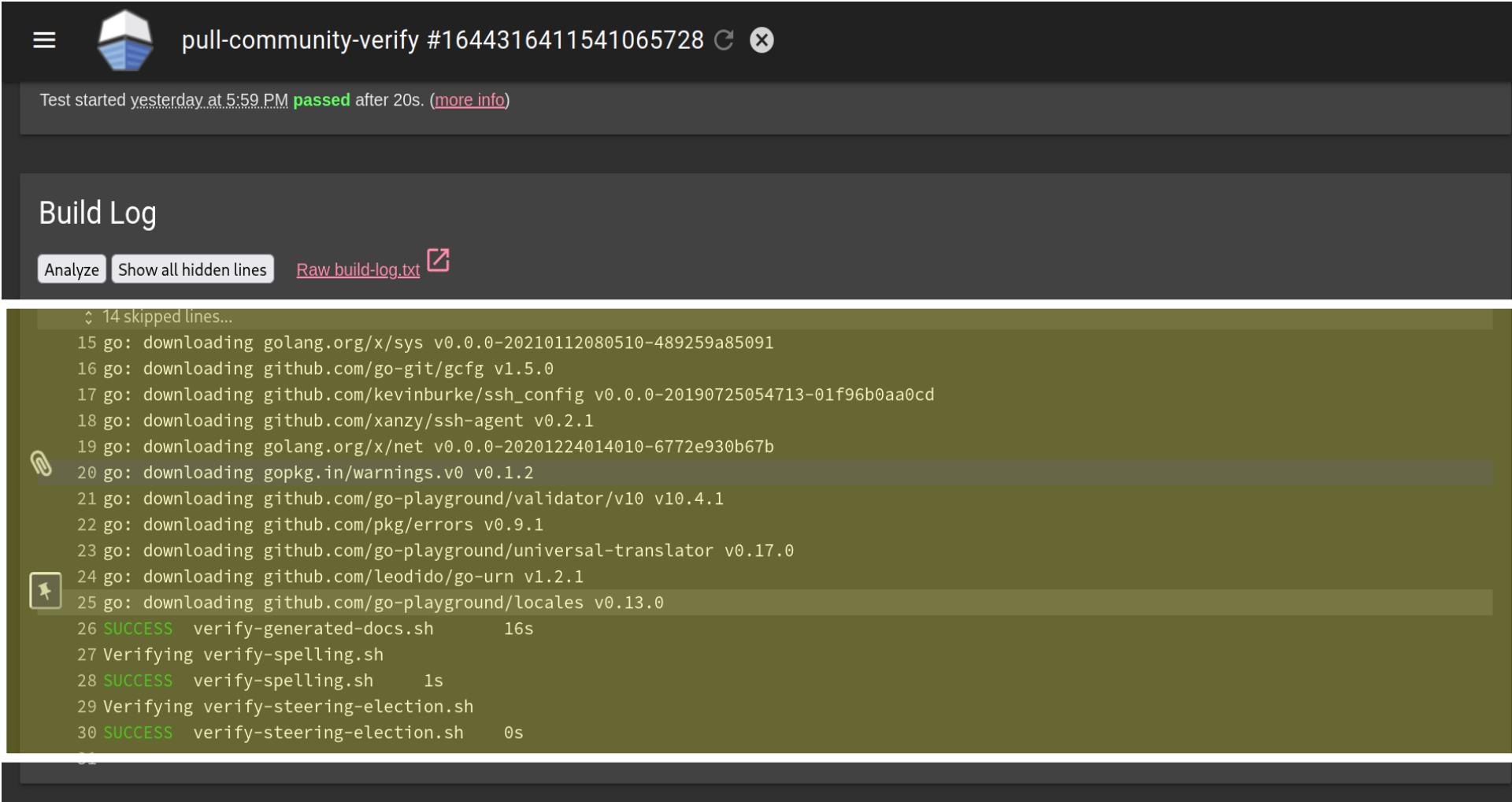
# Spyglass (prow.k8s.io)



The screenshot shows the Spyglass interface for a specific Prow job. At the top, there's a navigation bar with tabs for "Job History", "Prow Job YAML", "PR History", "PR", "Artifacts", and "Testgrid". Below this, a message states "Test started yesterday at 5:59 PM **passed** after 20s. ([more info](#))". The main content area is divided into two sections: "Build Log" (highlighted with a blue arrow) and "Job Pod Info". The "Build Log" section contains a button to "Analyze", a link to "Show all hidden lines", and a link to "Raw build-log.txt". It also displays a summary: "31 skipped lines...". The "Job Pod Info" section includes tabs for "POD", "VOLUMES", "EVENTS", "CLONEREFs", "INITUPLOAD", "PLACE-ENTRYPOINT", "TEST", "SIDECAR", and "YAML".

**Build logs  
(from the job  
container)**

# Spyglass (prow.k8s.io)



The screenshot shows a dark-themed web interface for a build log. At the top, it displays the repository name "pull-community-verify" and the pull request ID "#1644316411541065728". A green "C" icon indicates the status is "Completed". Below this, a message states "Test started yesterday at 5:59 PM **passed** after 20s. ([more info](#))". The main section is titled "Build Log" and contains the following log output:

```
⌚ 14 skipped lines...
15 go: downloading golang.org/x/sys v0.0.0-20210112080510-489259a85091
16 go: downloading github.com/go-git/gcfg v1.5.0
17 go: downloading github.com/kevinburke/ssh_config v0.0.0-20190725054713-01f96b0aa0cd
18 go: downloading github.com/xanzy/ssh-agent v0.2.1
19 go: downloading golang.org/x/net v0.0.0-20201224014010-6772e930b67b
⌚ 20 go: downloading gopkg.in/warnings.v0 v0.1.2
21 go: downloading github.com/go-playground/validator/v10 v10.4.1
22 go: downloading github.com/pkg/errors v0.9.1
23 go: downloading github.com/go-playground/universal-translator v0.17.0
⌚ 24 go: downloading github.com/leodido/go-urn v1.2.1
⌚ 25 go: downloading github.com/go-playground/locales v0.13.0
26 SUCCESS verify-generated-docs.sh      16s
27 Verifying verify-spelling.sh
28 SUCCESS verify-spelling.sh      1s
29 Verifying verify-steering-election.sh
30 SUCCESS verify-steering-election.sh    0s
```

# Spyglass (prow.k8s.io)

The screenshot shows the Spyglass interface for a pull request. At the top, there's a navigation bar with tabs: Job History, Prow Job YAML, PR History, PR, Artifacts, and Testgrid. Below the tabs, a message says "Test started yesterday at 5:59 PM passed after 20s. (more info)". The main content area has a "Build Log" section with buttons for Analyze, Show all hidden lines, and Raw build-log.txt. It also shows a summary: "31 skipped lines...". Below this is a "Job Pod Info" section with tabs for POD, VOLUMES, EVENTS, CLONEREFS, INITUPLOAD, PLACE-ENTRYPOINT, TEST, SIDECAR, and YAML. A blue arrow points from the "Job Pod Info" section up towards the "Build Log" section.

Job Pod Info  
(pod events,  
mounted  
volumes,  
applied pod  
spec, etc.)

Job History      Prow Job YAML      PR History      PR      Artifacts      Testgrid

Test started yesterday at 5:59 PM **passed** after 20s. ([more info](#))

Build Log

Analyze Show all hidden lines [Raw build-log.txt](#)

31 skipped lines...

Job Pod Info

POD VOLUMES EVENTS CLONEREFS INITUPLOAD PLACE-ENTRYPOINT TEST SIDECAR YAML

# Spyglass (prow.k8s.io)

The screenshot shows the Spyglass interface for a specific Prow job. At the top, there's a navigation bar with tabs: Job History (which is highlighted in green), Prow Job YAML, PR History, PR, Artifacts, and Testgrid. Below the navigation bar, a message indicates the test started yesterday at 5:59 PM and passed after 20s. The main content area is titled "Build Log" and contains a "Raw build-log.txt" link. A summary message states "31 skipped lines...". At the bottom, there's a section titled "Job Pod Info" with tabs for POD, VOLUMES, EVENTS, CLONEREFS, INITUPLOAD, PLACE-ENTRYPOINT, TEST, SIDECAR, and YAML.

Job history across all its recent run(s)

# Spyglass (prow.k8s.io)

Job History: pr-logs/directory/pull-community-verify				
Build	Revision	Started	Duration	Result
1644316411541065728	#7242 (dc1a1cb) by fabriziopandini	Apr 07 17:59:25	20s	SUCCESS
1644135518931259392	#7214 (a5d0493) by jeremyrickard	Apr 07 06:00:40	29s	SUCCESS
1644122543084277760	#7214 (c9aacd2) by jeremyrickard	Apr 07 05:09:07	36s	FAILURE
1644083237145808896	#7173 (2a08fb6) by marosset	Apr 07 02:32:52	20s	SUCCESS
1644042330216337408	#7173 (eb0f0af) by marosset	Apr 06 23:50:20	20s	SUCCESS
1643997404644511744	#7245 (58f64ba) by mboersma	Apr 06 20:51:49	20s	SUCCESS
1643904334410289152	#7212 (c11f9bc) by soltysh	Apr 06 14:41:59	19s	SUCCESS
1643801140233506816	#7243 (c7ce86a) by zmingxi	Apr 06 07:51:56	18s	SUCCESS
1643710041187946496	#7188 (1a27771) by xing-yang	Apr 06 01:49:55	17s	SUCCESS

# Spyglass (prow.k8s.io)

The screenshot shows a detailed view of a Prow job named "pull-community-verify #1644316411541065728". A blue arrow points from the text "Applied Prow job config in Yaml format" down to the "Prow Job YAML" tab, which is highlighted with a white border. Below the tabs, a message indicates the test passed: "Test started yesterday at 5:59 PM **passed** after 20s. ([more info](#))". The main content area is titled "Build Log" and contains a log viewer with buttons for "Analyze", "Show all hidden lines", and "Raw build-log.txt". The log itself shows a single line: "... 31 skipped lines...". At the bottom, there's a "Job Pod Info" section with tabs for POD, VOLUMES, EVENTS, CLONEREFs, INITUPLOAD, PLACE-ENTRYPOINT, TEST, SIDECAR, and YAML.

Applied Prow job config in Yaml format

pull-community-verify #1644316411541065728

Job History Prow Job YAML PR History PR Artifacts Testgrid

Test started yesterday at 5:59 PM **passed** after 20s. ([more info](#))

Build Log

Analyze Show all hidden lines Raw build-log.txt ↗

... 31 skipped lines...

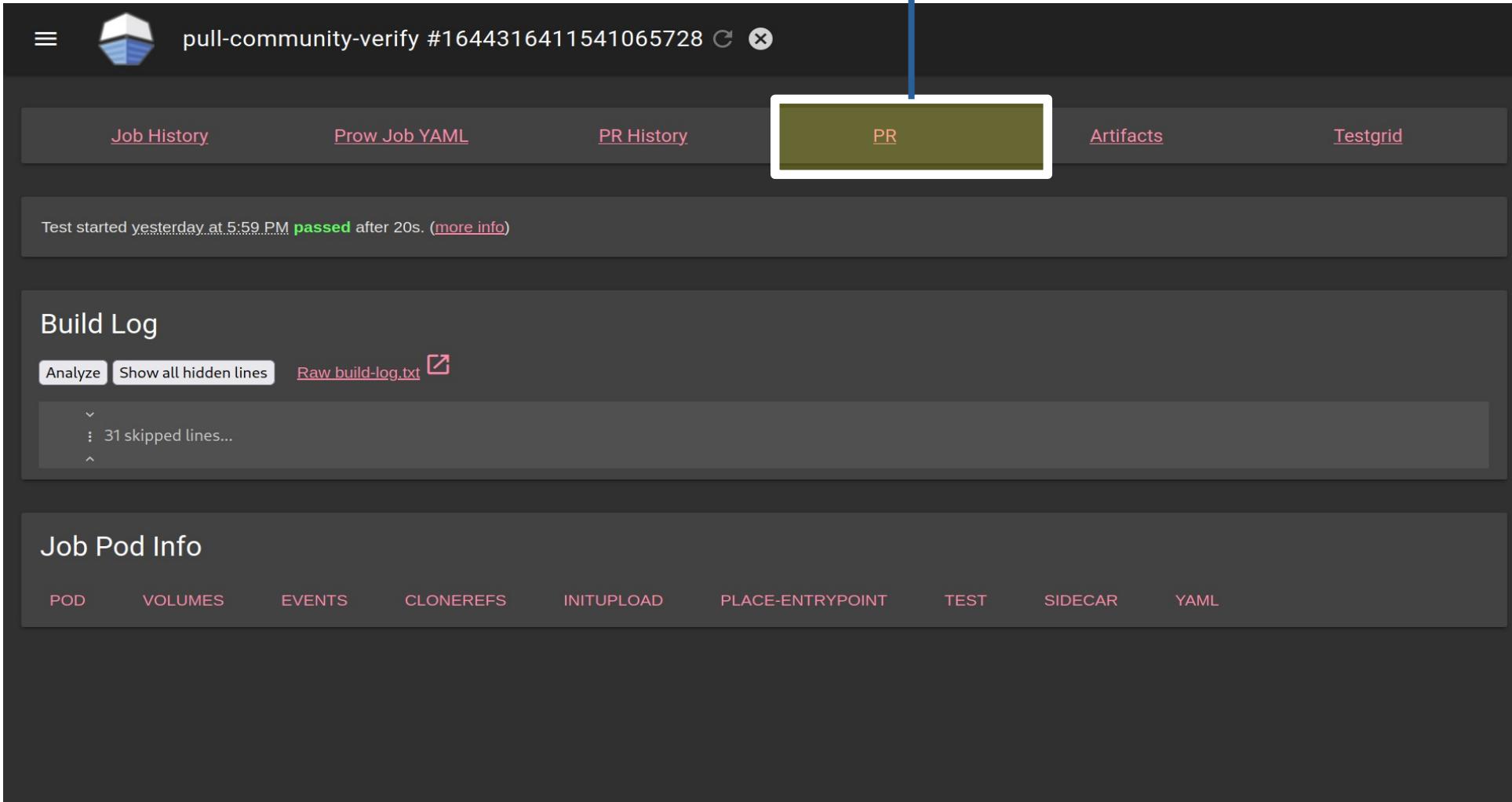
Job Pod Info

POD VOLUMES EVENTS CLONEREFs INITUPLOAD PLACE-ENTRYPOINT TEST SIDECAR YAML

# Spyglass (prow.k8s.io)

```
metadata:
  annotations:
    prow.k8s.io/context: pull-community-verify
    prow.k8s.io/job: pull-community-verify
    testgrid-dashboards: sig-contribex-community
    testgrid-tab-name: pull-verify
  creationTimestamp: "2023-04-07T12:29:17Z"
  generation: 10
  labels:
    created-by-prow: "true"
    event-GUID: c30a9520-d53f-11ed-98ef-62061e7eff2f
    prow.k8s.io/build-id: "1644316411541065728"
    prow.k8s.io/context: pull-community-verify
    prow.k8s.io/id: d02f72f0-d53f-11ed-8351-3ae6788bfc68
    prow.k8s.io/is-optional: "false"
    prow.k8s.io/job: pull-community-verify
    prow.k8s.io/ref.s.base_ref: master
    prow.k8s.io/ref.s.org: kubernetes
    prow.k8s.io/ref.s.pull: "7242"
    prow.k8s.io/ref.s.repo: community
    prow.k8s.io/type: presubmit
  name: d02f72f0-d53f-11ed-8351-3ae6788bfc68
  namespace: default
  resourceVersion: "1365697530"
  uid: 3c30e07b-4ce4-484f-8709-08eb417f9752
spec:
  agent: kubernetes
  cluster: default
  context: pull-community-verify
  decoration_config:
    gcs_configuration:
      bucket: kubernetes-jenkins
      default_org: kubernetes
      default_repo: kubernetes
```

# Spyglass (prow.k8s.io)



pull-community-verify #1644316411541065728

Job History Prow Job YAML PR History PR Artifacts Testgrid

Test started yesterday at 5:59 PM passed after 20s. (more info)

Build Log

Analyze Show all hidden lines Raw build-log.txt ↗

⋮ 31 skipped lines...

Job Pod Info

POD VOLUMES EVENTS CLONEREFS INITUPLOAD PLACE-ENTRYPOINT TEST SIDECAR YAML

Directs to  
the PR that  
triggered  
the job  
(in case of  
presubmits)

# Spyglass (prow.k8s.io)

[Open](#) SIG cluster lifecycle annual report 2022 #7242  
fabriziopandini wants to merge 3 commits into `kubernetes:master` from `fabriziopandini:SIG-cluster-lifecycle-a...`

**k8s-ci-robot** added `size/L` and removed `size/M` labels 20 hours ago

**Review requested** [Show all reviewers](#)  
Review has been requested on this pull request. It is not required to merge. [Learn more](#).

**4 pending reviewers**

**Some checks haven't completed yet** [Hide all checks](#)  
1 pending and 2 successful checks

- tide** Pending — Not mergeable. Needs `lgtm` label. [Details](#)
- EasyCLA** — EasyCLA check passed. You are authorized to contribute. Required [Details](#)
- pull-community-verify** — Job succeeded. ... Required [Details](#)

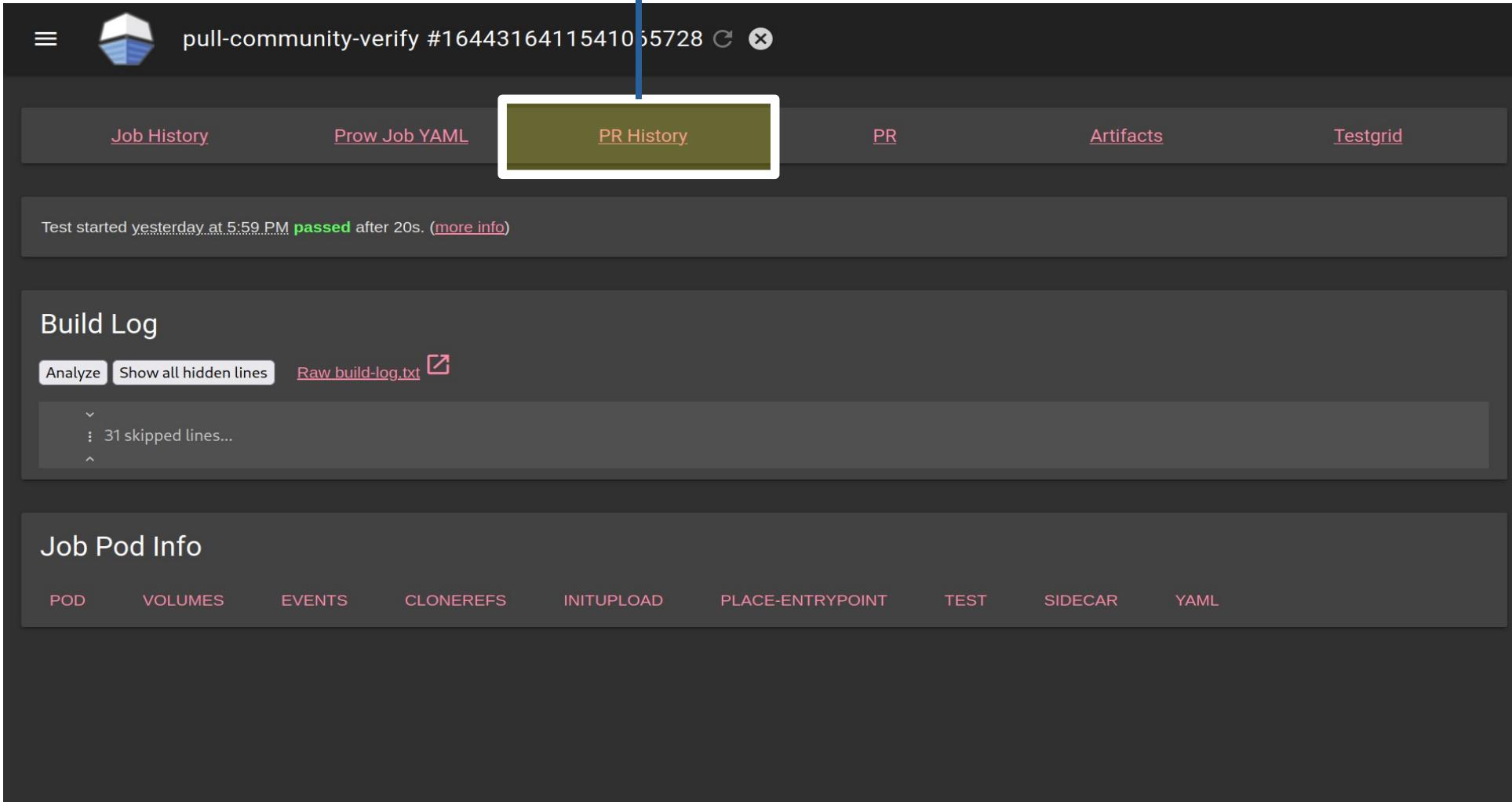
**This branch has no conflicts with the base branch**  
Only those with [write access](#) to this repository can merge pull requests.

Write Preview

Leave a comment

[github.com/kubernetes/community/pull/7242](https://github.com/kubernetes/community/pull/7242)

# Spyglass (prow.k8s.io)



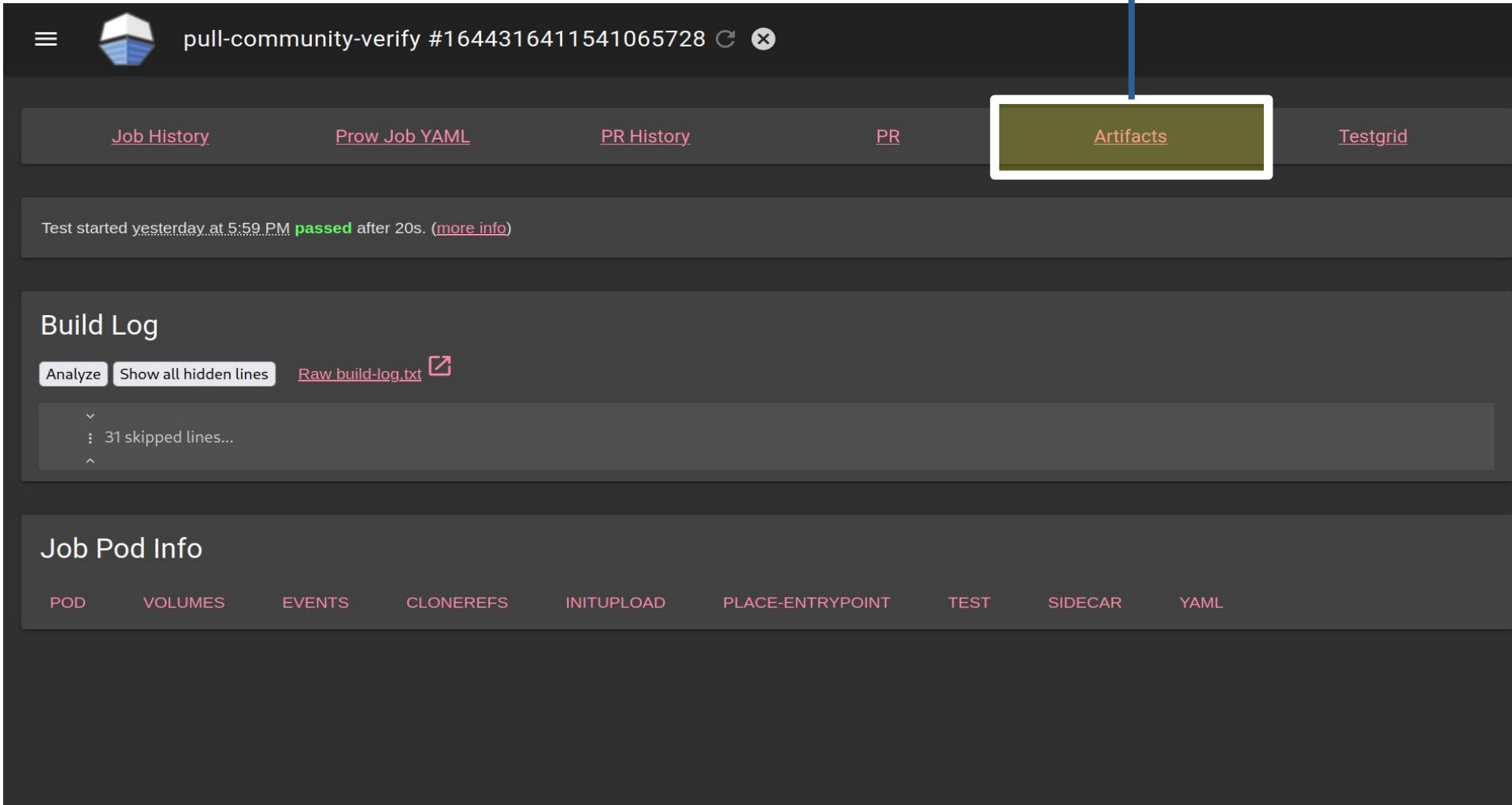
The screenshot shows the Spyglass interface for a pull request. At the top, there's a navigation bar with tabs: Job History, Prow Job YAML, PR History (which is highlighted with a white border), PR, Artifacts, and Testgrid. Below the navigation bar, a message says "Test started yesterday at 5:59 PM passed after 20s. (more info)". The main area is titled "Build Log" and contains buttons for Analyze, Show all hidden lines, and Raw build-log.txt. It also shows a collapsed section with the message "31 skipped lines...". Below this is a "Job Pod Info" section with tabs for POD, VOLUMES, EVENTS, CLONEREFS, INITUPLOAD, PLACE-ENTRYPOINT, TEST, SIDECAR, and YAML. The "POD" tab is selected.

History of  
Job run  
across  
different  
commits/  
revisions of  
the PR

# Spyglass (prow.k8s.io)

The screenshot shows the Spyglass interface for a pull request (PR) history. The top navigation bar is blue with the title "PR History: [kubernetes/community #7242](#)". On the left, there is a sidebar icon consisting of three horizontal lines and a blue cube icon. Below the navigation bar, there are three yellow rectangular boxes containing commit hashes: "dc1a1cb", "6a029c8", and "fd2a651". Underneath these boxes, there are four green rectangular boxes containing pull request IDs: "pull-community-verify" (white background), "1644316411541065728", "1643527240945766400", and "1643273555267293184". The main body of the page is a large white area.

# Spyglass (prow.k8s.io)



Job History Prow Job YAML PR History PR Artifacts Testgrid

Test started yesterday at 5:59 PM passed after 20s. (more info)

Build Log

Analyze Show all hidden lines Raw build-log.txt ↗

⋮ 31 skipped lines...

Job Pod Info

POD VOLUMES EVENTS CLONEREFS INITUPLOAD PLACE-ENTRYPOINT TEST SIDECAR YAML

**Job Artifacts**  
**(build logs,**  
**start/finish**  
**timestamps,**  
**etc.**

# Spyglass (prow.k8s.io)

## kubernetes-jenkins

/kubernetes-jenkins/pr-logs/pull/community/7242/pull-community-verify  
/1644316411541065728/

Name	Size	Modified
..	-	-
<a href="#">build-log.txt</a>	1636	07 Apr 2023 12:29:45
<a href="#">clone-log.txt</a>	3660	07 Apr 2023 12:29:26
<a href="#">clone-records.json</a>	4428	07 Apr 2023 12:29:26
<a href="#">finished.json</a>	111	07 Apr 2023 12:29:45
<a href="#">podinfo.json</a>	52375	07 Apr 2023 12:29:47
<a href="#">prowjob.json</a>	7511	07 Apr 2023 12:29:47
<a href="#">sidecar-logs.json</a>	1455	07 Apr 2023 12:29:45
<a href="#">started.json</a>	282	07 Apr 2023 12:29:26

# Spyglass Testgrid

The screenshot shows a dark-themed web interface for a CI/CD pipeline. At the top, there's a header bar with a sidebar icon, the job name "pull-community-verify #1644316411541065728", and a close button. Below the header is a navigation bar with tabs: "Job History", "Prow Job YAML", "PR History", "PR", "Artifacts", and "Testgrid". The "Testgrid" tab is highlighted with a green background. A message below the tabs states "Test started yesterday at 5:59 PM passed after 20s. (more info)". The main content area is titled "Build Log" and contains buttons for "Analyze", "Show all hidden lines", and a link to "Raw build-log.txt". It also shows a collapsed section with the message "31 skipped lines...". Another section titled "Job Pod Info" is partially visible at the bottom.

Back to Testgrid!

**Spyglass**

**Testgrid**

# **Test-infra**

# **Kubernetes' House of Prow Jobs**

# **Test-infra**

# **Kubernetes' House of Prow Jobs**

## **( [git.k8s.io/test-infra](https://git.k8s.io/test-infra) )**

# Test-infra (git.k8s.io/test-infra)

 [kubernetes / test-infra](#) Public

 Edit Pins  Watch 131  Fork 2.4k  Star 3.6k

 Code  Issues 120  Pull requests 64  Actions  Projects 2  Security  Insights

 master  Go to file  Add file  Code  About

Icon	Commit Message	Date
	k8s-ci-robot Merge pull request #29250 from Prajyo...	5 hours ago
	.clusterfuzzlite add project.yaml file to .clusterfuzzlite	2 months ago
	.github/ISSUE_TEMP... Add an issue template for kind/cleanup	5 years ago
	boskos update boskos/cmd/janitor/gcp_janitor.py t...	6 months ago
	config Merge pull request #29250 from Prajot-Pa...	5 hours ago
	def/configmap refactor: move from io/ioutil to io and os p...	6 months ago
	docs Update contributing-test-results.md	8 months ago
	experiment drop k8s.gcr.io from kind-conformance-ima...	last month
	gcsweb Fix lint errors after replacing deadcode opti...	6 months ago

 k8s-sig-testing

 Readme  
 Apache-2.0 license  
 Code of conduct  
 Security policy  
 3.6k stars  
 131 watching  
 2.4k forks  
[Report repository](#)

# Test-infra (git.k8s.io/test-infra)

 [kubernetes / test-infra](#) Public

 Edit Pins  Watch 131  Fork 2.4k  Star 3.6k

 Code  Issues 120  Pull requests 64  Actions  Projects 2  Security  Insights

 master  Go to file  Add file  Code  About

Icon	Commit Message	Date
	k8s-ci-robot Merge pull request #29250 from Prajyo...	5 hours ago
	.clusterfuzzlite add project.yaml file to .clusterfuzzlite	2 months ago
	.github/ISSUE_TEMP... Add an issue template for kind/cleanup	5 years ago
	boskos update boskos/cmd/janitor/gcp_janitor.py t...	6 months ago
	config Merge pull request #29250 from Prajot-Pa...	5 hours ago
	def/configmap refactor: move from io/ioutil to io and os p...	6 months ago
	docs Update contributing-test-results.md	8 months ago
	experiment drop k8s.gcr.io from kind-conformance-ima...	last month
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 k8s-sig-testing

 Readme  
 Apache-2.0 license  
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[Report repository](#)

# Test-infra (git.k8s.io/test-infra)

A screenshot of a GitHub repository page for `kubernetes/test-infra`. The repository is public, has 131 watchers, 2.4k forks, and 3.6k stars. The `Code` tab is selected, showing 120 issues, 64 pull requests, 2 projects, and security insights. The navigation bar shows the `master` branch and the `test-infra/config` directory, which is highlighted with a yellow background and an orange arrow pointing to it from the left.

The main content area displays a list of commits in the `test-infra/config` directory:

Name	Last commit message	Last commit date
..		
clusters/k8s-prow	Update terraform config for k8s-prow based on current state	2 years ago
jobs	Merge pull request #29250 from Prajyot-Parab/master	6 hours ago
mergelists	Include gardener prow testgrid configuration	10 months ago
prow	Bumping Prow and Boskos	2 days ago
testgrids	Update OpenShift testgrid definitions by auto-testgrid-gene...	3 days ago
---		

# Test-infra (git.k8s.io/test-infra)

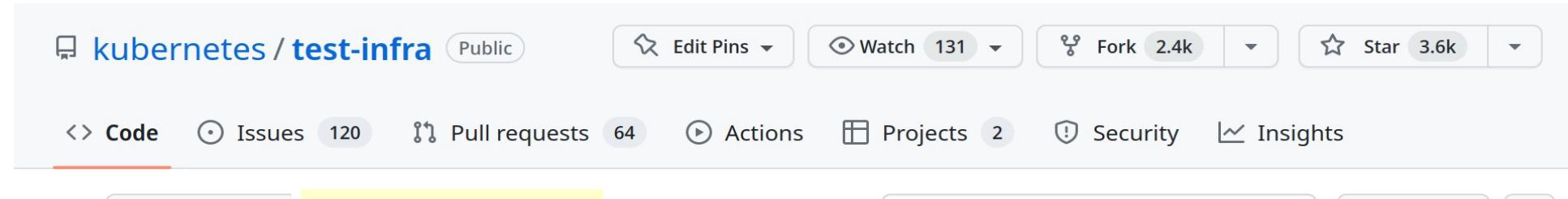
The screenshot shows a GitHub repository page for `kubernetes/test-infra`. The repository is public, has 131 watchers, 2.4k forks, and 3.6k stars. The `Code` tab is selected, showing 120 issues, 64 pull requests, 2 projects, and security insights. The navigation bar shows the `master` branch and the `test-infra/config` directory, which is highlighted with a yellow background and an orange arrow pointing to it from the left.

**Prow Infrastructure config (applied k8s objects)**

A blue curved arrow points from the text "Prow Infrastructure config (applied k8s objects)" up towards the `test-infra/config` directory in the GitHub interface.

Name	Last commit message	Last commit date
..		
clusters/k8s-prow	Update terraform config for k8s-prow based on current state	2 years ago
jobs	Merge pull request #29250 from Prajyot-Parab/master	6 hours ago
mergelists	Include gardener prow testgrid configuration	10 months ago
prow	Bumping Prow and Boskos	2 days ago
testgrids	Update OpenShift testgrid definitions by auto-testgrid-gene...	3 days ago
---		

# Test-infra (git.k8s.io/test-infra)



A screenshot of a GitHub repository page for `kubernetes/test-infra`. The repository is public, has 131 watchers, 2.4k forks, and 3.6k stars. The `Code` tab is selected, showing 120 issues, 64 pull requests, 2 projects, and security information. The breadcrumb navigation shows the path `master / test-infra / config /`, with a red arrow pointing to the search bar. The search bar includes a dropdown for 'T' and an 'Add file' button. Below the search bar, a merge pull request from `k8s-ci-robot` is shown, merged from `Prajyot-Parab/master` into `#29250`. The commit message is `Merge pull request #29250 from Prajyot-Parab/master` and it was made 6 hours ago. The commit history table lists several commits, each with a blue folder icon, a name, a last commit message, and a date. The commits are:

Name	Last commit message	Last commit date
..		
clusters/k8s-prow	Update terraform config for k8s-prow based on current state	2 years ago
jobs	Merge pull request #29250 from Prajyot-Parab/master	6 hours ago
mergelists	Include gardener prow testgrid configuration	10 months ago
prow	Bumping Prow and Boskos	2 days ago
testgrids	Update OpenShift testgrid definitions by auto-testgrid-gene...	3 days ago
...		

# **Test-infra (git.k8s.io/test-infra)**

*Let's explore the “jobs” folder ...*

# Test-infra (git.k8s.io/test-infra)

The screenshot shows the GitHub repository page for `kubernetes/test-infra`. The repository is public, has 131 watchers, 2.4k forks, and 3.6k stars. The `Code` tab is selected, showing 120 issues, 64 pull requests, 2 projects, and security information. The navigation bar shows the `master` branch and the `test-infra/config` directory, which is highlighted with a yellow box and has a red arrow pointing to it from the left. A search bar and an "Add file" button are also visible.

**Prow job configs for `prow.k8s.io`**

A blue curved arrow points from the text "Prow job configs for `prow.k8s.io`" to the `jobs` folder in the `test-infra/config` directory.

Name	Last commit message	Last commit date
..		
clusters/k8s-prow	Update terraform config for k8s-prow based on current state	2 years ago
jobs	Merge pull request #29250 from Prajyot-Parab/master	6 hours ago
mergelists	Include gardener prow testgrid configuration	10 months ago
prow	Bumping Prow and Boskos	2 days ago
testgrids	Update OpenShift testgrid definitions by auto-testgrid-gene...	3 days ago
---		

# Test-infra (git.k8s.io/test-infra)



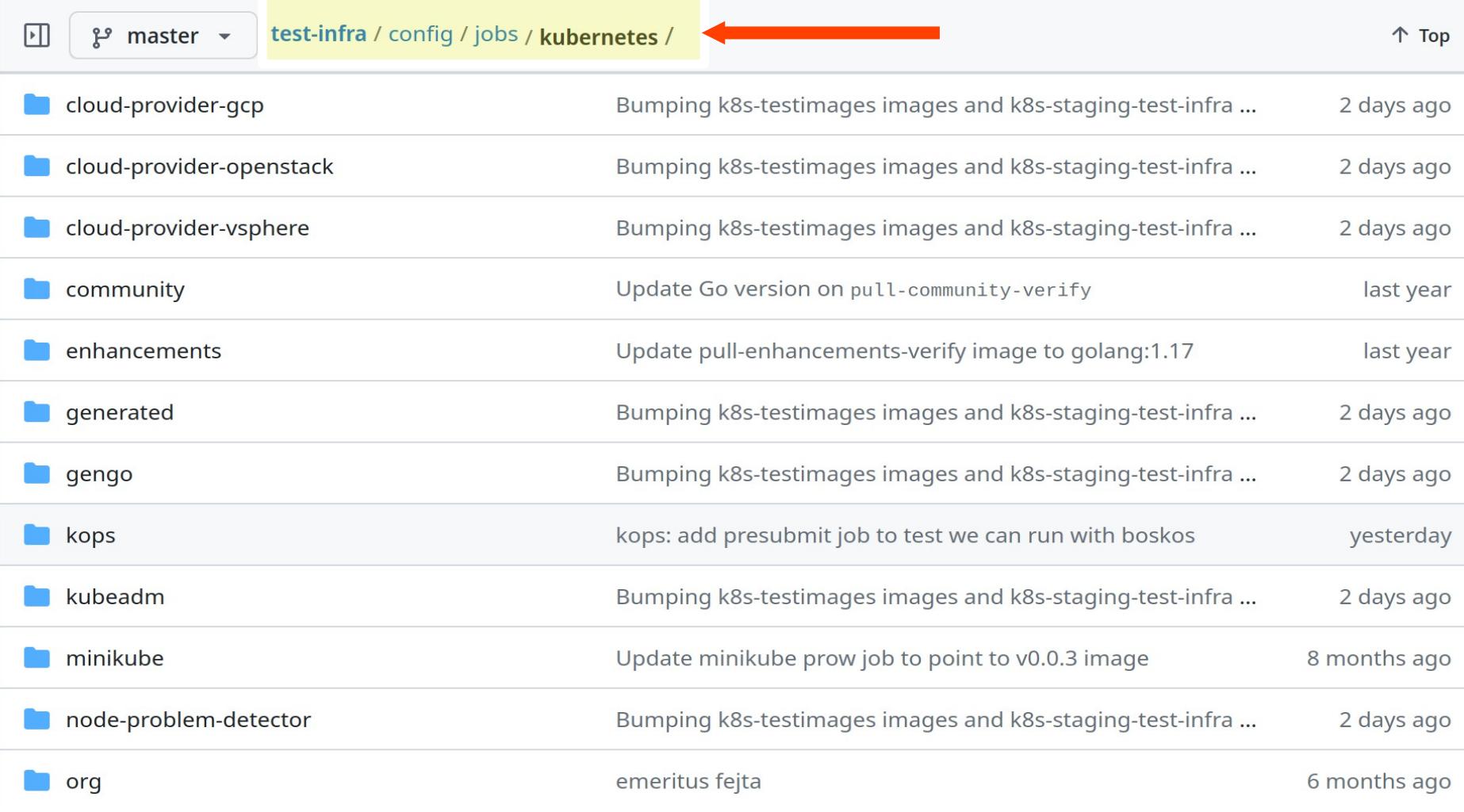
...	...	↑ Top
GoogleCloudPlatform	rmove kubemci jobs that are failing permanently	last year
bazelbuild/rules_k8s	emeritus fejta	6 months ago
cadvisor	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
containerd/containerd	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
image-pushing	rename oci-proxy to registry and bump golang-job limits	4 days ago
kubernetes-client/haskell	Remove inactive members from OWNERS - Jan 2021	2 years ago
kubernetes-csi	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
kubernetes-sigs	Merge pull request #29250 from Prajyot-Parab/master	5 hours ago
kubernetes	kops: add presubmit job to test we can run with boskos	yesterday
.yamlint.conf	Add yamlint presubmit	4 years ago
OWNERS	jobs: apply area/jobs to PRs that touch /config/jobs	3 years ago

# Test-infra (git.k8s.io/test-infra)

Name of  
GitHub  
Organisation

test-infra / config / jobs /		
master	...	↑ Top
GoogleCloudPlatform	rmove kubemci jobs that are failing permanently	last year
bazelbuild/rules_k8s	emeritus fejta	6 months ago
cadvisor	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
containerd/containerd	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
image-pushing	rename oci-proxy to registry and bump golang-job limits	4 days ago
kubernetes-client/hasker	Remove inactive members from OWNERS - Jan 2021	2 years ago
kubernetes-csi	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
kubernetes-sigs	Merge pull request #29250 from Prajyot-Parab/master	5 hours ago
kubernetes	kops: add presubmit job to test we can run with boskos	yesterday
.yaml lint.conf	Add yaml lint presubmit	4 years ago
OWNERS	jobs: apply area/jobs to PRs that touch /config/jobs	3 years ago

# Test-infra (git.k8s.io/test-infra)



commit	Author	Date
<a href="#">cloud-provider-gcp</a>	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
<a href="#">cloud-provider-openstack</a>	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
<a href="#">cloud-provider-vsphere</a>	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
<a href="#">community</a>	Update Go version on pull-community-verify	last year
<a href="#">enhancements</a>	Update pull-enhancements-verify image to golang:1.17	last year
<a href="#">generated</a>	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
<a href="#">gengo</a>	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
<a href="#">kops</a>	kops: add presubmit job to test we can run with boskos	yesterday
<a href="#">kubeadm</a>	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
<a href="#">minikube</a>	Update minikube prow job to point to v0.0.3 image	8 months ago
<a href="#">node-problem-detector</a>	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
<a href="#">org</a>	emeritus fejta	6 months ago

# Test-infra (git.k8s.io/test-infra)

Name of  
Repos under  
“Kubernetes”  
Org

cloud-provider-gcp	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
cloud-provider-openstack	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
cloud-provider-vsphere	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
community	Update Go version on pull-community-verify	last year
enhancements	Update pull-enhancements-verify image to golang:1.17	last year
generated	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
gengo	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
kops	kops: add presubmit job to test we can run with boskos	yesterday
kubeadm	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
minikube	Update minikube prow job to point to v0.0.3 image	8 months ago
node-problem-detector	Bumping k8s-testimages images and k8s-staging-test-infra ...	2 days ago
org	emeritus fejta	6 months ago

# Test-infra (git.k8s.io/test-infra)

The screenshot shows a GitHub repository interface for the `test-infra` repository at `git.k8s.io/test-infra`. The `Code` tab is selected. A yellow highlight box surrounds the breadcrumb navigation bar, which shows the path: `test-infra / config / jobs / kubernetes / community /`. An orange arrow points from the breadcrumb area towards the `Go to file` button. The repository has 120 issues and 64 pull requests. The commit history table lists three commits:

Name	Last commit message	Last commit date
...		
OWNERS	Add alisondy to k/community job OWNERS	3 years ago
community-presubmit.yaml	Update Go version on pull-community-verify	last year

Details for the last commit:

- Author: JohnTitor
- Message: Update Go version on pull-community-verify ✓
- Date: 4e60910 · last year
- History: [View History](#)

# Test-infra (git.k8s.io/test-infra)

The screenshot shows a GitHub repository interface. At the top, there are navigation links: Code (highlighted in red), Issues (120), Pull requests (64), Actions, Projects (2), Security, and Insights. Below this, a dropdown shows the branch master. The main navigation bar has a path: test-infra / config / jobs / kubernetes / community /. A red arrow points from the 'Community' part of the path to the 'Go to file' button. The commit history shows one recent commit by JohnTitor:

Name	Last commit message	Last commit date
..		
OWNERS	Add alisondy to k/community job OWNERS	3 years ago
community-presubmit.yaml	Update Go version on pull-community-verify	last year

A blue arrow points upwards from the bottom of the commit table towards the 'Community' part of the path in the navigation bar.

Existing Prow Jobs Configs  
for  
“kubernetes/community” repo

# Test-infra (git.k8s.io/test-infra)

The screenshot shows a GitHub repository interface for the 'test-infra' repository. The top navigation bar includes links for Code, Issues (120), Pull requests (64), Actions, Projects (2), Security, and Insights. Below the navigation, a breadcrumb trail shows the path: test-infra / config / jobs / kubernetes / community /. A red arrow points from this breadcrumb to a 'Go to file' button. The main content area displays a list of files in the 'community' directory:

Name	Last commit message	Last commit date
..		3 years ago
OWNERS	Add alisondy to k/	last year
community-presubmit.yaml	Update Go ve	

A blue speech bubble on the right contains the text: *and, will become the home for new Prow Jobs too!*. A blue arrow points from the text 'Existing Prow Jobs Configs for "kubernetes/community" repo' at the bottom left up towards the 'community-presubmit.yaml' file in the list.

Existing Prow Jobs Configs for "kubernetes/community" repo

test-infra / config / jobs / kubernetes / community /

JohnTitor Update Go version on pull-community-verify ✓ 4e60910 · last year History

Name	Last commit message	Last commit date
..		3 years ago
OWNERS	Add alisondy to k/	last year
community-presubmit.yaml	Update Go ve	

*and, will become the home for new Prow Jobs too!*

# Test-infra (git.k8s.io/test-infra)

A screenshot of a GitHub commit page for the file `community-presubmit.yaml` in the `test-infra` repository. The commit was made by `JohnTitor` on `4e60910 · last year`. The commit message is `Update Go version on pull-community-verify ✓`. The commit has a green checkmark icon.

The code editor shows the YAML configuration for a presubmit job:

```
presubmits:
  kubernetes/community:
    - name: pull-community-verify
      branches:
        - master
      always_run: true
      decorate: true
      spec:
        containers:
          - image: golang:1.18.2
            command:
              - sh
              - "-c"
              # Add GOPATH/bin back to PATH to workaround #9469
              - "export PATH=$PATH:$GOPATH/bin && make verify"
      annotations:
        testgrid-dashboards: sig-contribex-community
```

# Test-infra (git.k8s.io/test-infra)

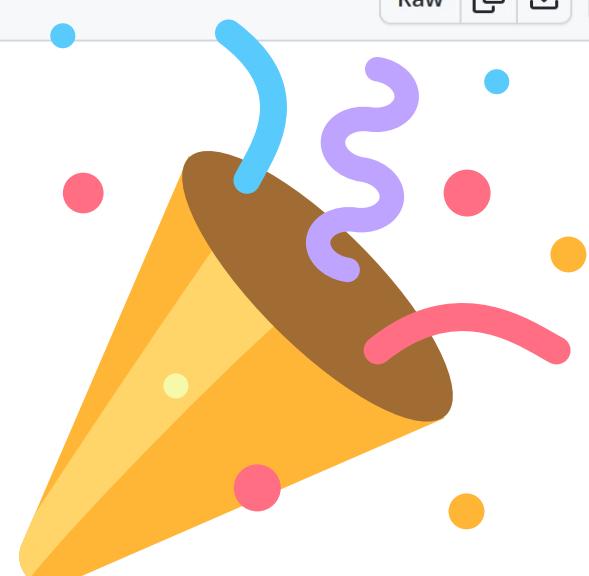
test-infra / config / jobs / kubernetes / community / community-presubmit.yaml

Go to file

JohnTitor Update Go version on pull-community-verify ✓ 4e60910 · last year History

Code Blame 42 lines (42 loc) · 1.18 KB

```
presubmits:
  kubernetes/community:
  - name: pull-community-verify
    branches:
    - master
    always_run: true
    decorate: true
    spec:
      containers:
      - image: golang:1.18.2
        command:
        - sh
        - "-c"
        # Add GOPATH/bin back to PATH to workaround #9469
        - "export PATH=$PATH:$GOPATH/bin && make verify"
      annotations:
        testgrid-dashboards: sig-contribex-community
```



# **Test-infra ([git.k8s.io/test-infra](https://git.k8s.io/test-infra))**

*Let's dive into the “testgrid” folder now ...*

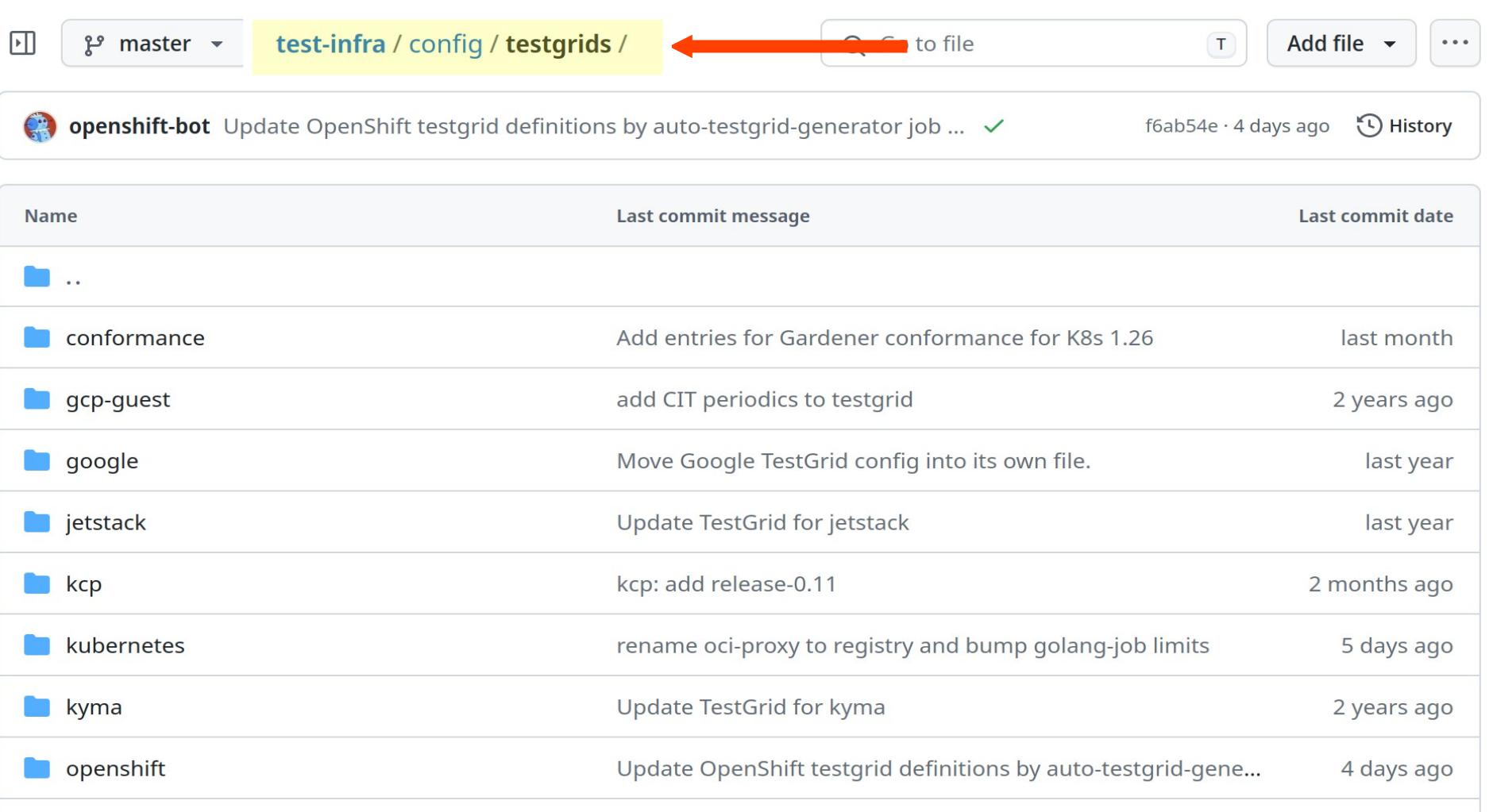
# Test-infra (git.k8s.io/test-infra)

The screenshot shows the GitHub repository page for `kubernetes/test-infra`. The repository is public, has 131 watchers, 2.4k forks, and 3.6k stars. The `Code` tab is selected, showing 120 issues, 64 pull requests, 2 projects, and security insights. The navigation bar shows the `master` branch and the `test-infra/config/` path, which is highlighted with a yellow background and an orange arrow pointing to it. A search bar and an "Add file" button are also visible.

**Testgrid config for testgrid.k8s.io**

Name	Last commit message	Last commit date
..		
clusters/k8s-prow	Update terraform config for k8s-prow based on current state	2 years ago
jobs	Merge pull request #29250 from Prajyot-Parab/master	6 hours ago
mergelists	Include gardener prow testgrid configuration	10 months ago
prow	Bumping Prow and Boskos	2 days ago
testgrids	Update OpenShift testgrid definitions by auto-testgrid-gene...	3 days ago
---		

# Test-infra (git.k8s.io/test-infra)



The screenshot shows a GitHub repository interface for the 'test-infra' repository. The URL in the address bar is `git.k8s.io/test-infra`. The repository is currently viewed in the 'master' branch. A red arrow highlights the 'testgrids' folder in the breadcrumb navigation bar.

Name	Last commit message	Last commit date
..		
conformance	Add entries for Gardener conformance for K8s 1.26	last month
gcp-guest	add CIT periodics to testgrid	2 years ago
google	Move Google TestGrid config into its own file.	last year
jetstack	Update TestGrid for jetstack	last year
kcp	kcp: add release-0.11	2 months ago
kubernetes	rename oci-proxy to registry and bump golang-job limits	5 days ago
kyma	Update TestGrid for kyma	2 years ago
openshift	Update OpenShift testgrid definitions by auto-testgrid-gene...	4 days ago

# Test-infra (git.k8s.io/test-infra)

**Folders with common testgrid dashboards/tabs**

The screenshot shows a GitHub repository interface for the 'test-infra' repository. The top navigation bar shows the branch 'master' and the path 'test-infra / config / testgrids /'. A red arrow points from the top navigation bar to the 'testgrids /' part of the path. The sidebar on the left lists several folders: '...', 'conformance', 'gcp-guest', 'google', 'jetstack', 'kcp', 'kubernetes', 'kyma', and 'openshift'. A blue circle highlights this sidebar. The main content area displays a table of commits in the 'testgrids /' folder, showing the last commit message and date for each entry.

Name	Last commit message	Last commit date
...		
conformance	Add entries for Gardener conformance for K8s 1.26	last month
gcp-guest	add CIT periodics to testgrid	2 years ago
google	Move Google TestGrid config into its own file.	last year
jetstack	Update TestGrid for jetstack	last year
kcp	kcp: add release-0.11	2 months ago
kubernetes	rename oci-proxy to registry and bump golang-job limits	5 days ago
kyma	Update TestGrid for kyma	2 years ago
openshift	Update OpenShift testgrid definitions by auto-testgrid-gene...	4 days ago

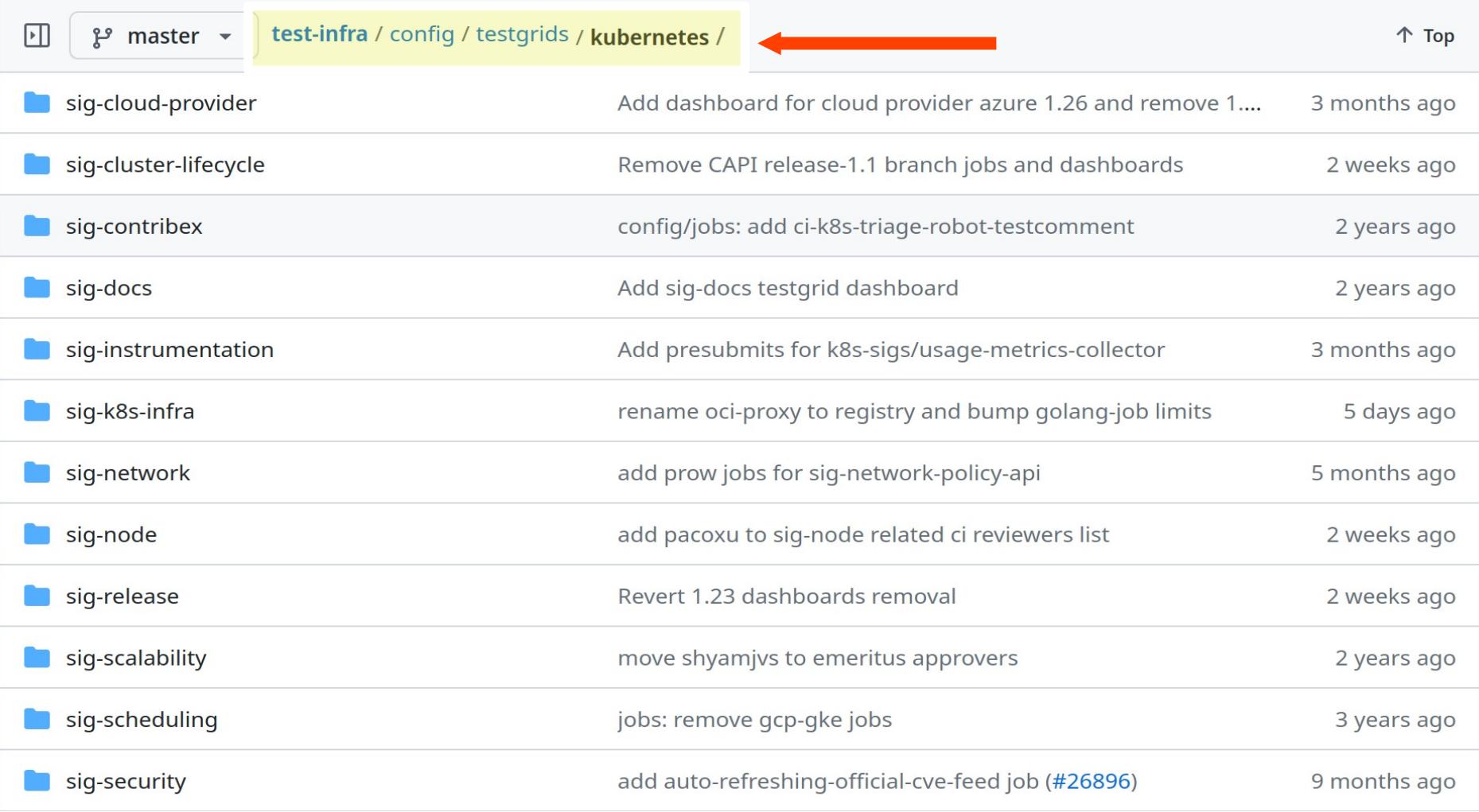
# Test-infra (git.k8s.io/test-infra)

**Folders with common testgrid dashboards/tabs**

The screenshot shows a GitHub repository interface for the 'test-infra' repository. The top navigation bar displays the branch 'master' and the path 'test-infra / config / testgrids /'. An orange arrow points from the top navigation bar to the 'testgrids /' part of the path. The main content area shows a list of commits in the 'testgrids' folder. A blue circle highlights the list of folders in the left sidebar: .., conformance, gcp-guest, google, jetstack, kcp, kubernetes, kyma, and openshift.

Name	Last commit message	Last commit date
..	Add entries for Gardener conformance for K8s 1.26	last month
conformance	add CIT periodics to testgrid	2 years ago
gcp-guest	Move Google TestGrid config into its own file.	last year
google	Update TestGrid for jetstack	last year
jetstack	kcp: add release-0.11	2 months ago
kcp	rename oci-proxy to registry and bump golang-job limits	5 days ago
kubernetes	Update TestGrid for kyma	2 years ago
kyma	Update OpenShift testgrid definitions by auto-testgrid-gene...	4 days ago
openshift		

# Test-infra (git.k8s.io/test-infra)



A screenshot of a GitHub repository interface. The URL in the address bar is `test-infra / config / testgrids / kubernetes /`. A red arrow points to the word "kubernetes". The page displays a list of pull requests:

		↑ Top
sig-cloud-provider	Add dashboard for cloud provider azure 1.26 and remove 1....	3 months ago
sig-cluster-lifecycle	Remove CAPI release-1.1 branch jobs and dashboards	2 weeks ago
sig-contribex	config/jobs: add ci-k8s-triage-robot-testcomment	2 years ago
sig-docs	Add sig-docs testgrid dashboard	2 years ago
sig-instrumentation	Add presubmits for k8s-sigs/usage-metrics-collector	3 months ago
sig-k8s-infra	rename oci-proxy to registry and bump golang-job limits	5 days ago
sig-network	add prow jobs for sig-network-policy-api	5 months ago
sig-node	add pacoxu to sig-node related ci reviewers list	2 weeks ago
sig-release	Revert 1.23 dashboards removal	2 weeks ago
sig-scalability	move shyamjvs to emeritus approvers	2 years ago
sig-scheduling	jobs: remove gcp-gke jobs	3 years ago
sig-security	add auto-refreshing-official-cve-feed job (#26896)	9 months ago

# Test-infra (git.k8s.io/test-infra)

Name of  
Repos under  
“Kubernetes”  
Org

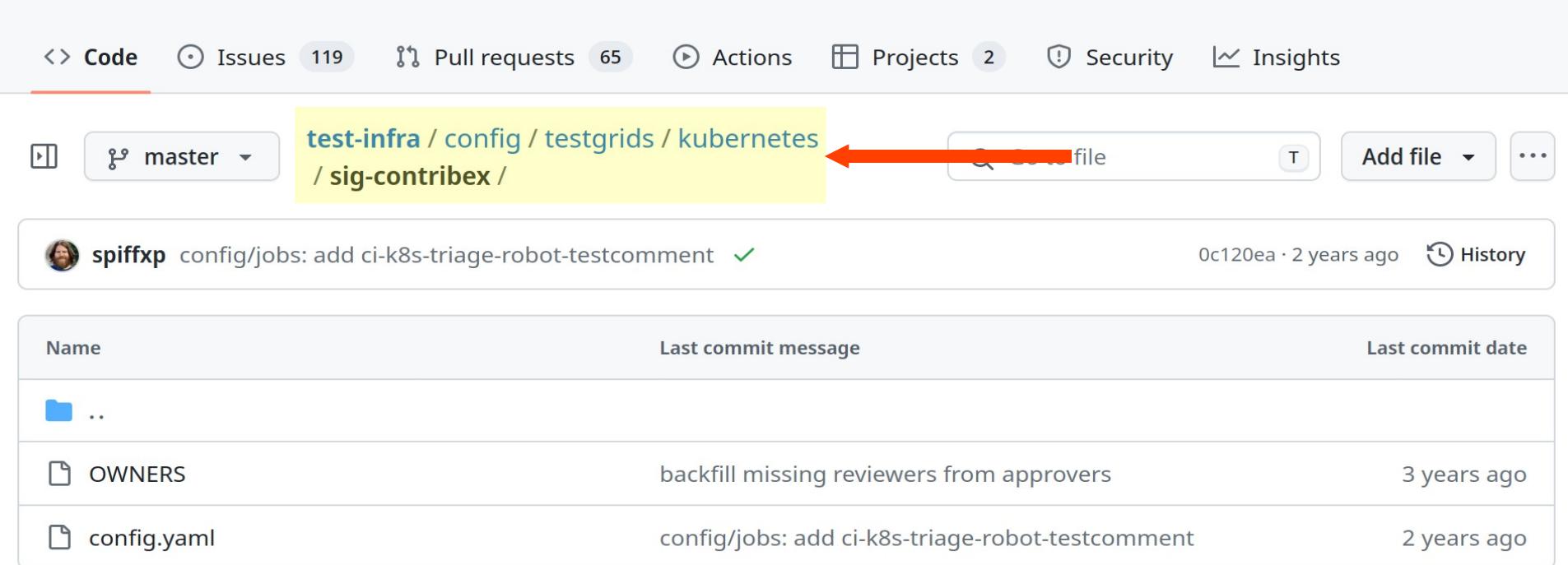
test-infra / config / testgrids / kubernetes /	↑ Top
sig-cloud-provider	Add dashboard for cloud provider azure 1.26 and remove 1.... 3 months ago
sig-cluster-lifecycle	Remove CAPI release-1.1 branch jobs and dashboards 2 weeks ago
sig-contribex	config/jobs: add ci-k8s-triage-robot-testcomment 2 years ago
sig-docs	Add sig-docs testgrid dashboard 2 years ago
sig-instrumentation	Add presubmits for k8s-sigs/usage-metrics-collector 3 months ago
sig-k8s-infra	rename oci-proxy to registry and bump golang-job limits 5 days ago
sig-network	add prow jobs for sig-network-policy-api 5 months ago
sig-node	add pacoxu to sig-node related ci reviewers list 2 weeks ago
sig-release	Revert 1.23 dashboards removal 2 weeks ago
sig-scalability	move shyamjvs to emeritus approvers 2 years ago
sig-scheduling	jobs: remove gcp-gke jobs 3 years ago
sig-security	add auto-refreshing-official-cve-feed job (#26896) 9 months ago

# Test-infra (git.k8s.io/test-infra)

Name of  
Repos under  
“Kubernetes”  
Org

test-infra / config / testgrids / kubernetes /	↑ Top
sig-cloud-provider	Add dashboard for cloud provider azure 1.26 and remove 1.... 3 months ago
sig-cluster-lifecycle	Remove CAPI release-1.1 branch jobs and dashboards 2 weeks ago
sig-contribex	config/jobs: add ci-k8s-triage-robot-testcomment 2 years ago
sig-docs	Add sig-docs testgrid dashboard 2 years ago
sig-instrumentation	Add presubmits for k8s-sigs/usage-metrics-collector 3 months ago
sig-k8s-infra	rename oci-proxy to registry and bump golang-job limits 5 days ago
sig-network	add prow jobs for sig-network-policy-api 5 months ago
sig-node	add pacoxu to sig-node related ci reviewers list 2 weeks ago
sig-release	Revert 1.23 dashboards removal 2 weeks ago
sig-scalability	move shyamjvs to emeritus approvers 2 years ago
sig-scheduling	jobs: remove gcp-gke jobs 3 years ago
sig-security	add auto-refreshing-official-cve-feed job (#26896) 9 months ago

# Test-infra (git.k8s.io/test-infra)



A screenshot of a GitHub repository page for `test-infra/testgrid-kubernetes-sig-contribex`. The repository path is highlighted with a yellow background and a red arrow points from the search bar to it. The search bar contains the text `ci-k8s-triage-robot-testcomment`. The page shows a commit by `spiffxp` with the message `config/jobs: add ci-k8s-triage-robot-testcomment` and a green checkmark. The commit was made 2 years ago. Below the commit, there is a table showing three files: `..`, `OWNERS`, and `config.yaml`. The `OWNERS` file has a last commit message of `backfill missing reviewers from approvers` and was committed 3 years ago. The `config.yaml` file has a last commit message of `config/jobs: add ci-k8s-triage-robot-testcomment` and was committed 2 years ago.

Name	Last commit message	Last commit date
<code>..</code>		
<code>OWNERS</code>	backfill missing reviewers from approvers	3 years ago
<code>config.yaml</code>	config/jobs: add ci-k8s-triage-robot-testcomment	2 years ago

# Test-infra (git.k8s.io/test-infra)

Code Issues 119 Pull requests 65 Actions Projects 2 Security Insights

master test-infra / config / testgrids / kubernetes / sig-contribex /

spiffxp config/jobs: add ci-k8s-triage-robot-testcomment ✓ 0c120ea · 2 years ago History

Name	Last commit message	Last commit date
..		
OWNERS	backfill missing reviewers from approvers	3 years ago
config.yaml	config/jobs: add ci-k8s-triage-robot-testcomment	2 years ago

Existing Testgrid  
dashboards/tabs config for  
“kubernetes/sig-contribex” repo

# Test-infra (git.k8s.io/test-infra)

Code Issues 119 Pull requests 65 Actions Projects 2 Security Insights

master

test-infra / config / testgrids / kubernetes / sig-contribex /

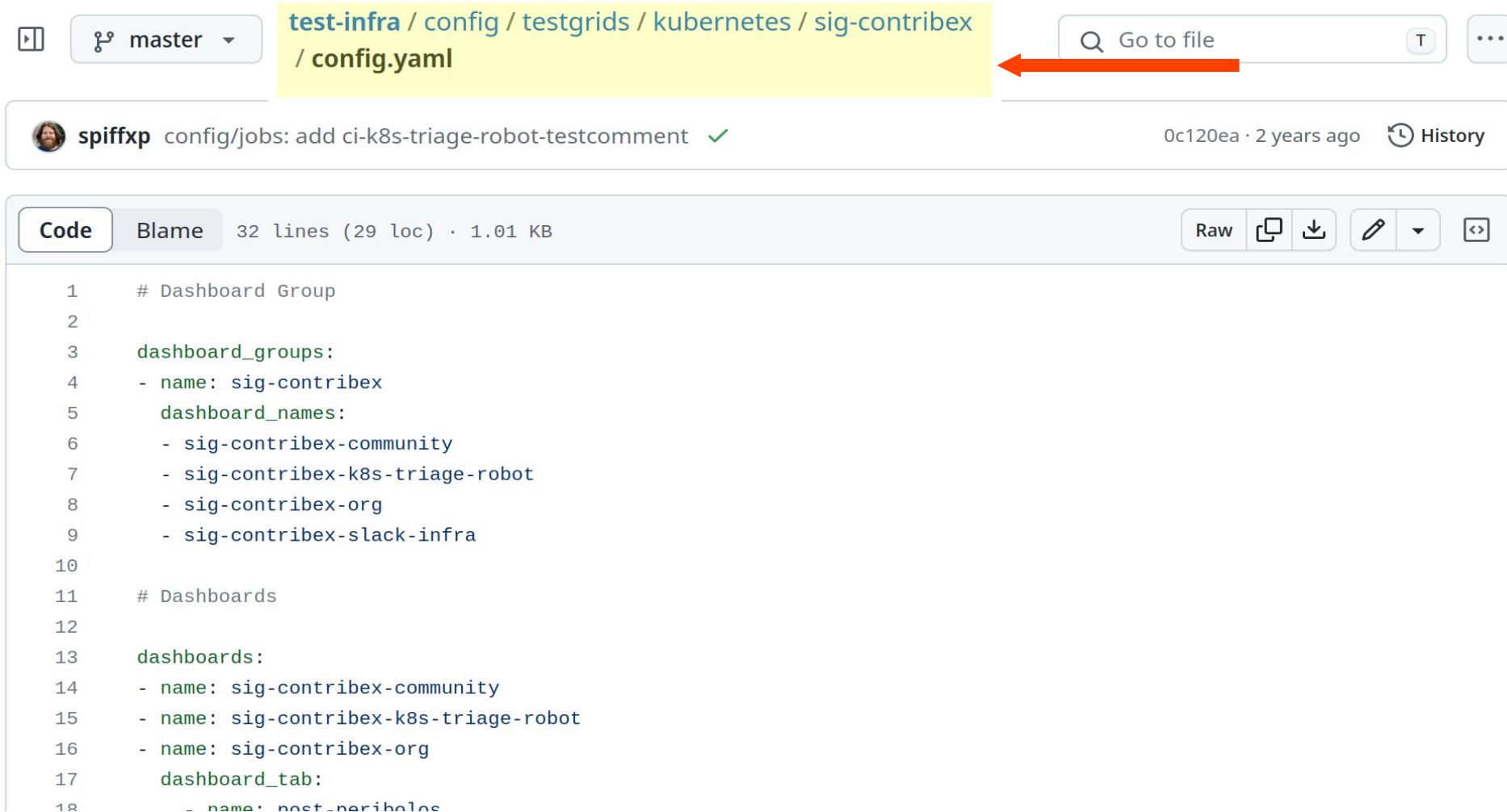
spiffxp config/jobs: add ci-k8s-triage-robot-testcomment ✓ 0c120ea · 2 years ago History

Name	Last commit message	Last commit date
...	backfill mis...	'o
OWNERS	config/jo...	
config.yaml		

Existing Testgrid dashboards/tabs config for "kubernetes/sig-contribex" repo

*and, will become the home for new Testgrid dashboard groups & tabs too!*

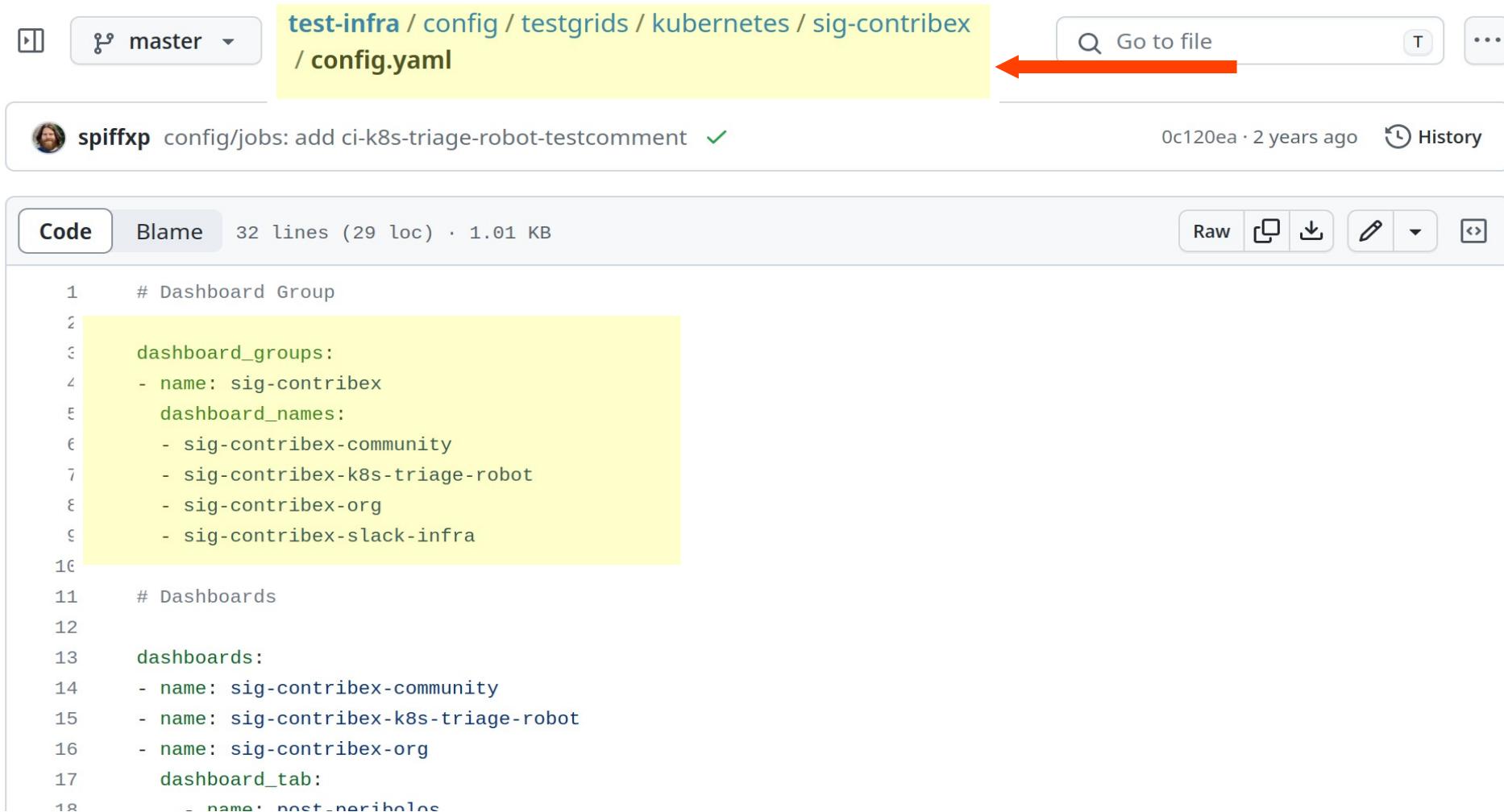
# Test-infra (git.k8s.io/test-infra)



The screenshot shows a GitHub code review interface for the file `config.yaml` in the `test-infra / config / testgrids / kubernetes / sig-contribex` directory. The file has 32 lines (29 loc) and is 1.01 KB in size. A commit by `spiffxp` adds a `ci-k8s-triage-robot-testcomment` and was made 2 years ago. The interface includes a search bar with a red arrow pointing to the "Go to file" button, and various navigation and editing tools.

```
1 # Dashboard Group
2
3 dashboard_groups:
4   - name: sig-contribex
5     dashboard_names:
6       - sig-contribex-community
7       - sig-contribex-k8s-triage-robot
8       - sig-contribex-org
9       - sig-contribex-slack-infra
10
11 # Dashboards
12
13 dashboards:
14   - name: sig-contribex-community
15   - name: sig-contribex-k8s-triage-robot
16   - name: sig-contribex-org
17     dashboard_tab:
18       - name: post-mergereholos
```

# Test-infra (git.k8s.io/test-infra)



The screenshot shows a GitHub code review interface for the file `config.yaml` in the `test-infra` repository. The repository path is `test-infra / config / testgrids / kubernetes / sig-contribex / config.yaml`. The commit details show a pull request by `spiffxp` titled "config/jobs: add ci-k8s-triage-robot-testcomment" with a green checkmark, committed at `0c120ea · 2 years ago`. The "History" link is also visible.

The code editor displays the YAML configuration. A yellow highlight covers the section of the code starting with line 3, which defines the `dashboard_groups` key. The highlighted code is:

```
1 # Dashboard Group
2
3 dashboard_groups:
4   - name: sig-contribex
5     dashboard_names:
6       - sig-contribex-community
7       - sig-contribex-k8s-triage-robot
8       - sig-contribex-org
9       - sig-contribex-slack-infra
10
11 # Dashboards
12
13 dashboards:
14   - name: sig-contribex-community
15   - name: sig-contribex-k8s-triage-robot
16   - name: sig-contribex-org
17     dashboard_tab:
18       - name: post-mergereholos
```

# Test-infra (git.k8s.io/test-infra)



## Dashboard Group sig-contribex :: Overview

Status	Dashboard	Health
	OVERALL	21 / 24 Tabs Passing
✗	<a href="#">sig-contribex-community</a>	0 / 1 Passing (1 FLAKY)
✓	<a href="#">sig-contribex-k8s-triage-robot</a>	16 / 16 Passing (16 PASSING)
✓	<a href="#">sig-contribex-org</a>	4 / 4 Passing (4 PASSING)
⚠	<a href="#">sig-contribex-slack-infra</a>	1 / 3 Passing (1 PASSING, 1 FLAKY, 1 FAILING)



# **Hound : Code Search**

# **Hound : Code Search**

## **( cs.k8s.io )**

# Hound (cs.k8s.io)

Search by Regexp



Advanced: ignore case, filter by path, stuff like that.

# Hound (cs.k8s.io)

pull-community-verify



Advanced: ignore case, filter by path, stuff like that.

[Excluded Files](#)

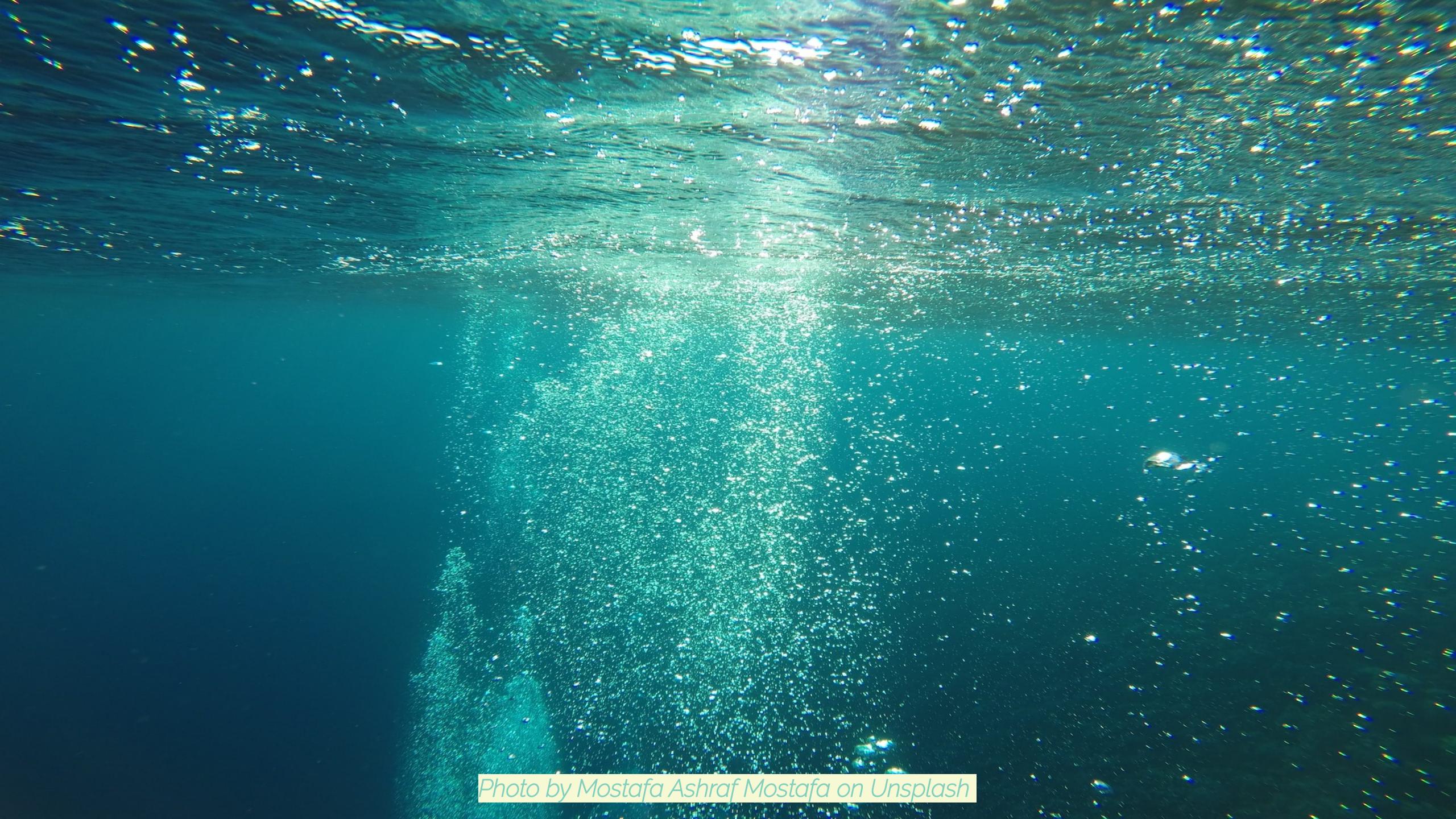
498ms total / 235ms server / 4 files



kubernetes / test-infra

[config/jobs/README.md](#)

```
75 ## Job Examples
76
77 A presubmit job named "pull-community-verify" that will run against all PRs to
78 kubernetes/community's master branch. It will run `make verify` in a checkout
79 of kubernetes/community at the PR's HEAD. It will report back to the PR via a
86 presubmits:
87   kubernetes/community:
88     - name: pull-community-verify # convention: (job type)-(repo name)-(suite name)
89       annotations:
90         testgrid-dashboards: sig-contribex-community
```

A photograph taken from an underwater perspective, looking upwards through the surface of the water. The water is a deep teal color. Numerous small, white bubbles are scattered throughout the frame, more concentrated near the surface and becoming smaller and more numerous as they descend. The lighting creates a bright, dappled effect on the bubbles and the water's surface.

*Photo by Mostafa Ashraf Mostafa on Unsplash*

# **Deep Dive (Example #1)**

# **Deep Dive**

## **Syncing Release Team's Enhancement Tracking Board**

# Deep Dive (Example #1)

Filters  Labels 130 Milestones 5 New issue

Clear current search query, filters, and sorts

84 Open ✓ 6 Closed

Author	Label	Projects	Milestones	Assignee	Sort
Mutable Pod scheduling directives when gated	lead-opted-in sig/scheduling stage/beta	ahg-g	Feb 4	2 of 4 tasks	v1.27
Kube-proxy improved ingress connectivity reliability	lead-opted-in sig/network stage/alpha tracked/no	alexanderConstantinescu	Feb 3	4 tasks	v1.28
kubectl: Use Server-Side-Apply by default	lead-opted-in sig/cli stage/alpha tracked/no	alexzielenski	Feb 1	8 tasks	
PersistentVolume last phase transition time	kind/feature lead-opted-in sig/storage stage/alpha tracked/yes	RomanBednar	Jan 20	1 of 4 tasks	v1.27

[github.com/kubernetes/enhancements/labels/lead-opted-in](https://github.com/kubernetes/enhancements/labels/lead-opted-in)

kubernetes / Projects / 1.27 Enhancements Tracking Search or jump to...

1.27 Enhancements Tracking

Enhancements PRR Docs Comms Code Freeze Exceptions + New view

-status:"Removed From Milestone",Deferred 60

Title	code PRs all merged	Assignees	Status
Mutable scheduling directives for suspended Jobs #2926	yes		Tracked
KMS v2 Improvements #3299	yes	enj and ritazh	Tracked
Reduction of Secret-based Service Account Tokens #2799	yes	ligitt and zshihang	Tracked
Auth API to get self user attributes #3325	yes	deads2k, liggett, ...	Tracked
Pod Scheduling Readiness #3521	yes	Huang-Wei	Tracked
CEL-based admission webhook match conditions #3716	yes	tallclair	Tracked
Cloud Dual-Stack --node-ip Handling #3705	yes	thockin	Tracked
CEL for Admission Control #3488	yes	cici37 and jpbtz	Tracked
Node log query #2258	yes	aravindhpr	Tracked

[github.com/orgs/kubernetes/projects/117](https://github.com/orgs/kubernetes/projects/117)

# Deep Dive (Example #1)

The diagram illustrates the synchronization process between two GitHub features: Issues and Projects.

**Left Side (Issues View):**

- Search bar: `is:open label:lead-opted-in`
- Filters: `Labels 130`, `Milestones 5`
- New issue button
- Clear current search query, filters, and sorts link
- 84 Open, 6 Closed issues listed:

  - Mutable Pod scheduling directives when gated
  - Kube-proxy improved ingress connectivity reliability
  - kubectl: Use Server-Side-Apply by default
  - PersistentVolume last phase transition time

**Right Side (Projects View):**

- Project navigation: kubernetes / Projects / 1.27 Enhancements Tracking
- Search bar: Search or jump to...
- Enhancements tab selected
- Filter: `-status:"Removed From Milestone",Deferred` (60 items)
- Table of 13 tracked items:

  - Mutable scheduling directives for suspended Jobs #2926
  - KMS v2 Improvements #3299
  - Reduction of Secret-based Service Account Tokens #2799
  - Auth API to get self user attributes #3325
  - Pod Scheduling Readiness #3521
  - CEL-based admission webhook match conditions #3716
  - Cloud Dual-Stack --node-ip Handling #3705
  - CEL for Admission Control #3488
  - Node log query #2258

[github.com/kubernetes/enhancements/labels/lead-opted-in](https://github.com/kubernetes/enhancements/labels/lead-opted-in)

[github.com/orgs/kubernetes/projects/117](https://github.com/orgs/kubernetes/projects/117)

# Deep Dive (Example #1)



The screenshot shows a GitHub code editor interface. The repository path is `master` under `sig-release / release-team / hack / sync-enhancements-github-project-beta.sh`. The file is an executable shell script with 157 lines, 132 loc, and 5.46 KB size. The code itself is as follows:

```
45 function get_field_ids_from_github_beta_project() {
79
80     echo 'Starting sync...'
81     echo -e "[INFO] Fetching the list of open KEP issues from k/enhancements with the label, \"lead-opted-in\""
82
83
84     ## Fetch k/enhancements issues & process json data
85     MILESTONE_ISSUES_JSON=$(gh api graphql --paginate -f query='query($org: String!, $repo: String!){
86             repository(owner: $org, name: $repo) {
87                 description
88                 url
89                 issues(states:[OPEN], first: 100, labels: ["lead-opted-in"]) {
90                     nodes {
91                         id
92                         number
93                         }
94                         pageInfo{
95                             endCursor
96                             hasNextPage
97                         }
98                         }
99                     }
100                 }' -f org=${ORGANIZATION} -f repo=${REPOSITORY})"
101
102     no_of_issues=$(jq ".data.repository.issues.nodes | length" <<< "$MILESTONE_ISSUES_JSON")
103     loop_index_range=$(( no_of_issues - 1 ))
104 }
```

<git.k8s.io/sig-release/release-team/hack/sync-enhancements-github-project-beta.sh>

# Deep Dive (Example #1)

Sync (every 6 hours)

A screenshot of a GitHub search interface. The search bar contains the query "is:open label:lead-opted-in". Below the search bar are buttons for "Labels 130" and "Milestones 5". A "New issue" button is also present. The results show four open issues:

- Mutable Pod scheduling directives when gated** (lead-opted-in, sig/scheduling, stage/beta) - Opened on Feb 4 by ahg-g, 2 of 4 tasks, v1.27.
- Kube-proxy improved ingress connectivity reliability** (lead-opted-in, sig/network, stage/alpha, tracked/no) - Opened on Feb 3 by alexanderConstantinescu, 4 tasks, v1.28.
- kubectl: Use Server-Side-Apply by default** (lead-opted-in, sig/cli, stage/alpha, tracked/no) - Opened on Feb 1 by alexzielenski, 8 tasks.
- PersistentVolume last phase transition time** (kind/feature, lead-opted-in, sig/storage, stage/alpha, tracked/yes) - Opened on Jan 20 by RomanBednar, 1 of 4 tasks, v1.27.

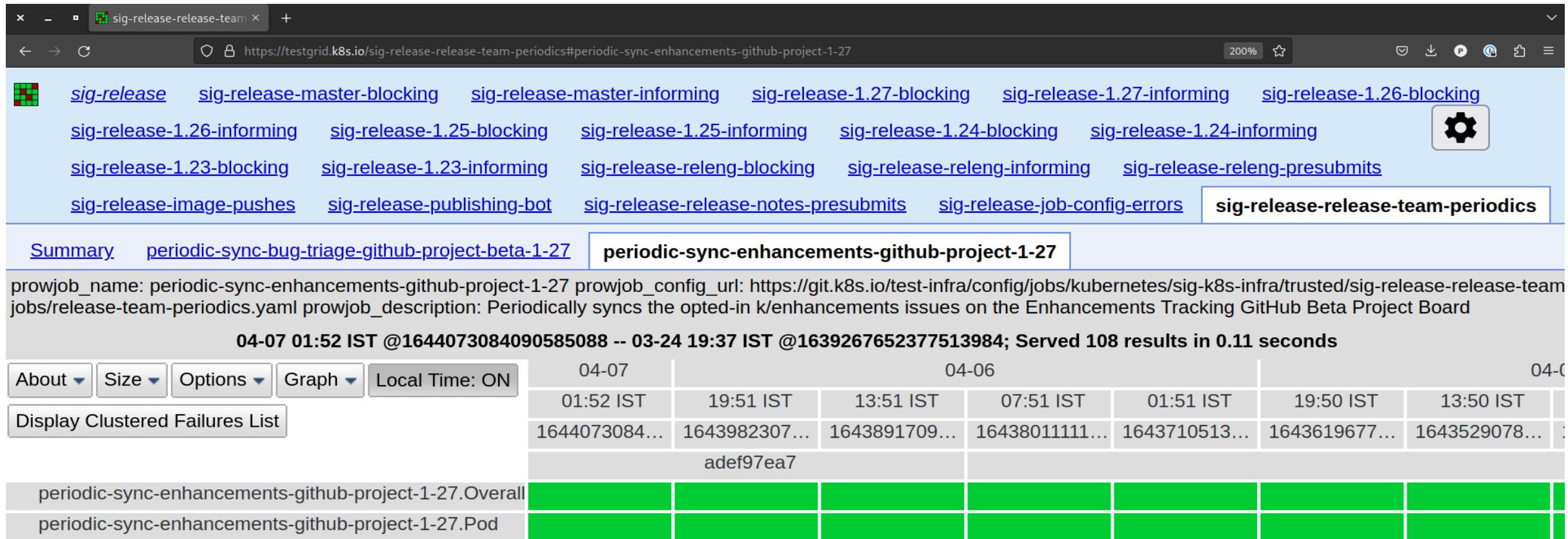
A screenshot of a GitHub project page titled "1.27 Enhancements Tracking". The URL is "github.com/orgs/kubernetes/projects/117". The page shows a board with columns: Enhancements, PRR, Docs, Comms, and Code Freeze Exceptions. A filter at the top is set to "-status:'Removed From Milestone',Deferred 60". The board lists 13 items:

Title	code PRs all merged	Assignees	Status
Mutable scheduling directives for suspended Jobs #2926	yes		Tracked
KMS v2 Improvements #3299	yes	enj and ritazh	Tracked
Reduction of Secret-based Service Account Tokens #2799	yes	ligitt and zshihang	Tracked
Auth API to get self user attributes #3325	yes	deads2k, liggett, ...	Tracked
Pod Scheduling Readiness #3521	yes	Huang-Wei	Tracked
CEL-based admission webhook match conditions #3716	yes	tallclair	Tracked
Cloud Dual-Stack --node-ip Handling #3705	yes	thockin	Tracked
CEL for Admission Control #3488	yes	cici37 and jpbtz	Tracked
Node log query #2258	yes	aravindhpr	Tracked

[github.com/kubernetes/enhancements/labels/lead-opted-in](https://github.com/kubernetes/enhancements/labels/lead-opted-in)

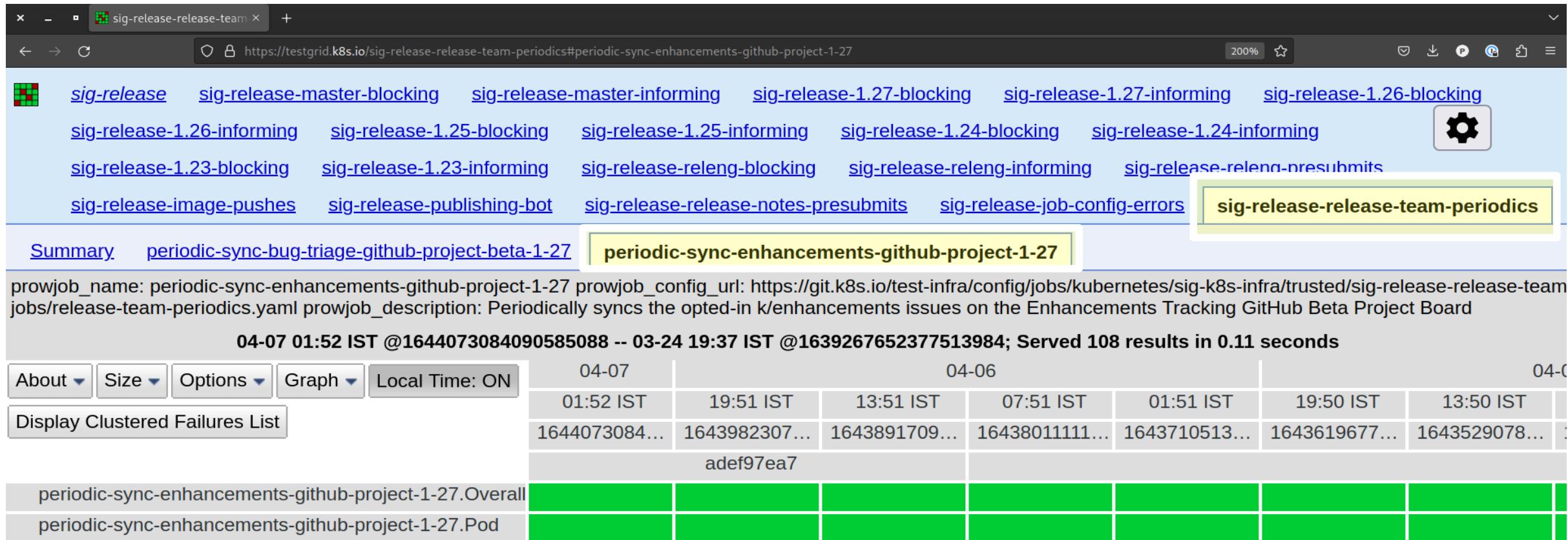
[github.com/orgs/kubernetes/projects/117](https://github.com/orgs/kubernetes/projects/117)

# Deep Dive (Example #1)



[testgrid.k8s.io/sig-release-release-team-periodics#periodic-sync-enhancements-github-project-1-27](https://testgrid.k8s.io/sig-release-release-team-periodics#periodic-sync-enhancements-github-project-1-27)

# Deep Dive (Example #1)



[testgrid.k8s.io/sig-release-release-team-periodics#periodic-sync-enhancements-github-project-1-27](https://testgrid.k8s.io/sig-release-release-team-periodics#periodic-sync-enhancements-github-project-1-27)

# Deep Dive (Example #1)

```
1 periodics:  
2   - name: periodic-sync-enhancements-github-project-1-27  
3     interval: 6h  
4     cluster: k8s-infra-prow-build-trusted  
5     decorate: true  
6     annotations:  
7       testgrid-create-test-group: "true"  
8       testgrid-dashboards: sig-release-release-team-periodics  
9       description: Periodically syncs the opted-in k/enhancements issues  
10          on the Enhancements Tracking GitHub Beta Project Board  
11     extra_refs:  
12       - org: kubernetes  
13         repo: sig-release  
14         base_ref: master
```

# Deep Dive (Example #1)

```
1 periodics:  
2   - name: periodic-sync-enhancements-github-project-1-27  
3     interval: 6h  
4     cluster: k8s-infra-prow-build-trusted  
5     decorate: true  
6     annotations:  
7       testgrid-create-test-group: "true"  
8       testgrid-dashboards: sig-release-release-team-periodics  
9       description: Periodically syncs the opted-in k/enhancements issues  
10      on the Enhancements Tracking GitHub Beta Project Board  
11     extra_refs:  
12       - org: kubernetes  
13         repo: sig-release  
14         base_ref: master
```

# Deep Dive (Example #1)

```
1 periodics:  
2   - name: periodic-sync-enhancements-github-project-1-27  
3     interval: 6h  
4     cluster: k8s-infra-prow-build-trusted ← Name of the Prow Build Cluster  
5     decorate: true  
6     annotations:  
7       testgrid-create-test-group: "true"  
8       testgrid-dashboards: sig-release-release-team-periodics  
9       description: Periodically syncs the opted-in k/enhancements issues  
10          on the Enhancements Tracking GitHub Beta Project Board  
11     extra_refs:  
12       - org: kubernetes  
13         repo: sig-release  
14         base_ref: master
```

# Deep Dive (Example #1)

```
1 periodics:  
2   - name: periodic-sync-enhancements-github-project-1-27  
3     interval: 6h  
4     cluster: k8s-infra-prow-build-trusted  
5     decorate: true  
6     annotations:  
7       testgrid-create-test-group: "true"  
8       testgrid-dashboards: sig-release-release-team-periodics  
9       description: Periodically syncs the opted-in k/enhancements issues  
10          on the Enhancements Tracking GitHub Beta Project Board  
11     extra_refs:  
12       - org: kubernetes  
13         repo: sig-release  
14         base_ref: master
```

# Deep Dive (Example #1)

```
1 periodics:  
2   - name: periodic-sync-enhancements-github-project-1-27  
3     interval: 6h  
4     cluster: k8s-infra-prow-build-trusted  
5     decorate: true  
6     annotations:  
7       testgrid-create-test-group: "true"  
8       testgrid-dashboards: sig-release-release-team-periodics  
9       description: Periodically syncs the opted-in k/enhancements issues  
10          on the Enhancements Tracking GitHub Beta Project Board  
11     extra_refs:  
12       - org: kubernetes  
13         repo: sig-release  
14         base_ref: master
```

# Deep Dive (Example #1)

```
1 periodics:  
2   - name: periodic-sync-enhancements-github-project-1-27  
3     interval: 6h  
4     cluster: k8s-infra-prow-build-trusted  
5     decorate: true  
6     annotations:  
7       testgrid-create-test-group: "true"  
8       testgrid-dashboards: sig-release-release-team-periodics  
9       description: Periodically syncs the opted-in k/enhancements issues  
10          on the Enhancements Tracking GitHub Beta Project Board  
11   extra_refs:  
12     - org: kubernetes  
13     repo: sig-release  
14     base_ref: master
```

# Deep Dive (Example #1)

```
15  spec:
16    containers:
17      - image: gcr.io/k8s-staging-infra-tools/k8s-infra:latest
18        command:
19          - ./release-team/hack/sync-enhancements-github-project-beta.sh
20        env:
21          - name: GITHUB_PROJECT_BETA_NUMBER
22            value: "117"
23          - name: GITHUB_TOKEN
24            valueFrom:
25              secretKeyRef:
26                name: k8s-release-enhancements-triage-github-token
27                key: token
```

# Deep Dive (Example #1)

```
15 spec:  
16   containers:  
17     - image: gcr.io/k8s-staging-infra-tools/k8s-infra:latest  
18       command:  
19         - ./release-team/hack/sync-enhancements-github-project-beta.sh  
20   env:  
21     - name: GITHUB_PROJECT_BETA_NUMBER  
22       value: "117"  
23     - name: GITHUB_TOKEN  
24       valueFrom:  
25         secretKeyRef:  
26           name: k8s-release-enhancements-triage-github-token  
27           key: token
```

# Deep Dive (Example #1)

```
15 spec:  
16   containers:  
17     - image: gcr.io/k8s-staging-infra-tools/k8s-infra:latest  
18       command:  
19         - ./release-team/hack/sync-enhancements-github-project-beta.sh  
20       env:  
21         - name: GITHUB_PROJECT_BETA_NUMBER  
22           value: "117"  
23         - name: GITHUB_TOKEN  
24           valueFrom:  
25             secretKeyRef:  
26               name: k8s-release-enhancements-triage-github-token  
27               key: token
```

# Deep Dive (Example #1)



# Deep Dive (Example #1)



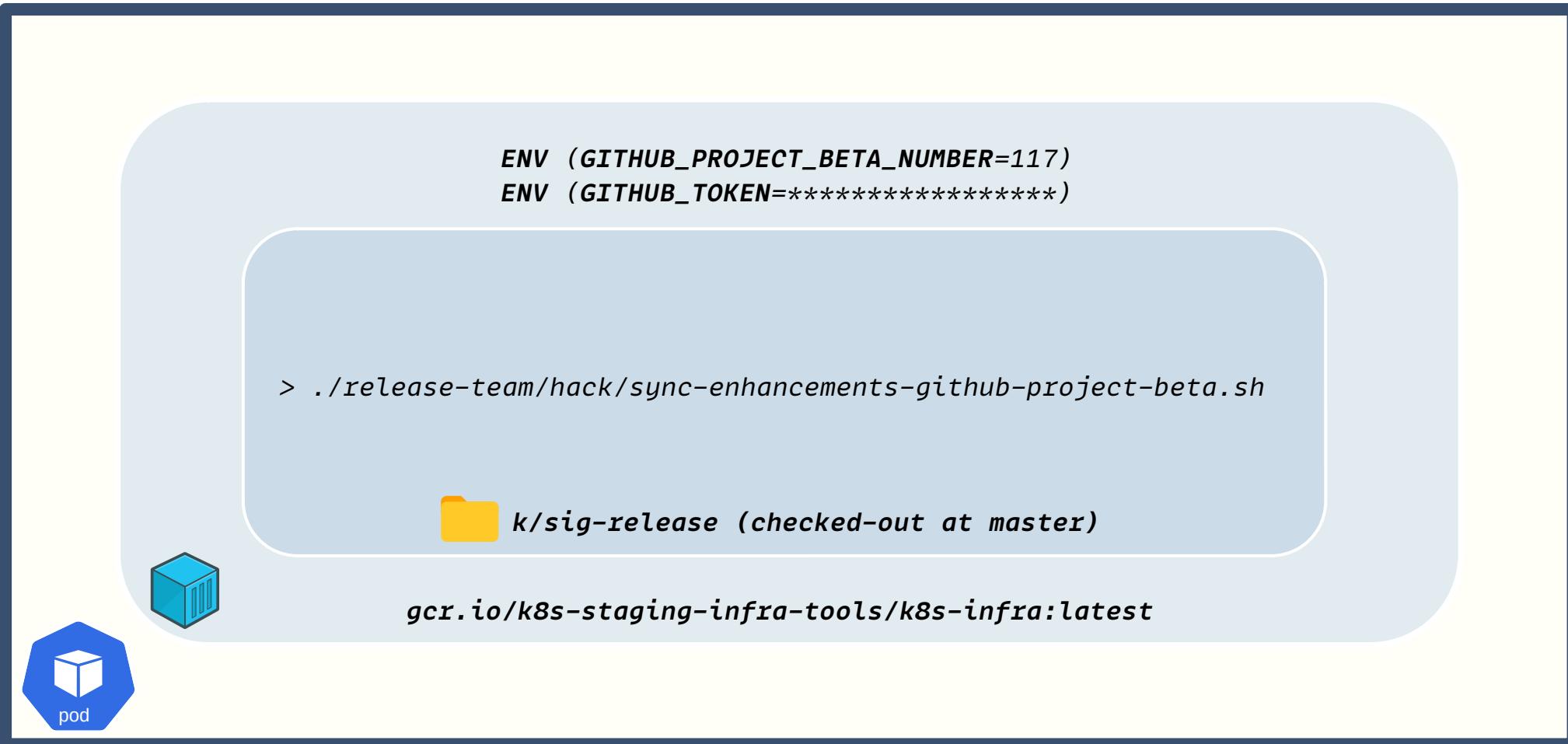
# Deep Dive (Example #1)



# Deep Dive (Example #1)



# Deep Dive (Example #1)



# Deep Dive (Example #1)

The screenshot shows a Prow job details page for a GitHub project. The top navigation bar includes a menu icon, a blue octocat icon, the project name "periodic-sync-enhancements-github-project-1-27", the build ID "#1644073084090585088", a refresh button, and a close button.

The main content area has tabs for "Job History", "Prow Job YAML", "Artifacts", and "Testgrid". Below these tabs, a message states "Test started yesterday at 1:52 AM passed after 58s. ([more info](#))".

A large section titled "Build Log" contains a log of the sync process:

- 1 Starting sync...
- 2 [INFO] Fetching the list of open KEP issues from k/enhancements with the label, "lead-opted-in"
- 3 [INFO] Getting metadata for the Enhancements GitHub Beta Project with ID: 117
- 4 [INFO] Feeding data from k/enhancements into the GitHub Project Beta
- 5 Sync finished!
- 6

At the bottom, a "Job Pod Info" section provides links to various logs and configurations:

- POD
- VOLUMES
- EVENTS
- CLONEREFCS
- INITUPLOAD
- PLACE-ENTRYPOINT
- TEST
- SIDECAR
- YAML

# **Deep Dive (Example #2)**

# **Deep Dive (Example #2)**

## Kubernetes Version Markers

# Deep Dive (Example #2)

## Kubernetes Version Markers

- Text files which act as sort of a public API for accessing Kubernetes builds
- Artifacts of a successful Kubernetes build which are stored in a Google Cloud Storage bucket alongside the builds they make reference to

# Deep Dive (Example #2)

## Kubernetes Version Markers

Name	Size	Modified
..	-	-
<a href="#">k8s-stable1.txt</a>	25	06 Apr 2023 17:05:54

<gcsweb.k8s.io/gcs/k8s-release-dev/ci/>

# Deep Dive (Example #2)

## Kubernetes Version Markers

The screenshot shows a GCS web interface with the following details:

Path: **/k8s-release-dev/ci/**

File Name: **k8s-stable1.txt**

File Size: **-**

File Modified: **06 Apr 2023 17:05:54**

A red arrow points to the path **/k8s-release-dev/ci/**. A blue arrow points to the file name **k8s-stable1.txt**.

Name	Size	Modified
<a href="#">k8s-stable1.txt</a>	- 25	06 Apr 2023 17:05:54

[gcsweb.k8s.io/gcs/k8s-release-dev/ci/](http://gcsweb.k8s.io/gcs/k8s-release-dev/ci/)

# Deep Dive (Example #2)

## Kubernetes Version Markers

k8s-release-dev

→ /k8s-release-dev/ci/v1.26.3-41+abad95a0536325/

Name	Size	Modified
..	-	-
bin/	-	-
SHA256SUMS	29433	06 Apr 2023 17:05:14
SHA256SUMS.sha256	64	06 Apr 2023 17:05:14
SHA256SUMS.sha512	128	06 Apr 2023 17:05:14
SHA512SUMS	39097	06 Apr 2023 17:05:14
SHA512SUMS.sha256	64	06 Apr 2023 17:05:14
SHA512SUMS.sha512	128	06 Apr 2023 17:05:14
kubernetes-client-darwin-amd64.tar.gz	30063593	06 Apr 2023 17:05:31
kubernetes-client-darwin-	64	06 Apr 2023 17:05:28
amd64 tar gz sha256		

Build artifacts w.r.t.  
k8s version marker  
**v1.26.3-41+abad95a0536325**

[gcsweb.k8s.io/gcs/k8s-release-dev/ci/v1.26.3-41+abad95a0536325](https://gcsweb.k8s.io/gcs/k8s-release-dev/ci/v1.26.3-41+abad95a0536325)

# Deep Dive (Example #2)

## Kubernetes Version Markers

v1.26.3-41+abad95ao536325

### Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

The screenshot shows a GitHub compare interface. At the top, there are dropdown menus for 'base: v1.26.3' and 'compare: release-1.26'. Below this, summary statistics are displayed: 41 commits, 56 files changed, and 16 contributors. A section for 'Commits on Jan 4, 2023' is expanded, showing a single commit by 'xmudrii' with the message 'CHANGELOG-1.26: move OpenStack in-tree provider removal to urgent notes'. This commit is marked as 'Verified' and has a green checkmark next to it. There are also icons for copy, download, and diff.

[github.com/kubernetes/kubernetes/compare/v1.26.3...release-1.26](https://github.com/kubernetes/kubernetes/compare/v1.26.3...release-1.26)

# Deep Dive (Example #2)

## Kubernetes Version Markers

The screenshot shows a GitHub interface for comparing two branches. A blue circle highlights the commit hash **v1.26.3-41+abad95a0536325**, which is the latest commit on the `release-1.26` branch. A purple callout points to this commit with the text: "Latest commit # on release branch (`release-1.26`)". Another purple callout on the left points to the base release tag **v1.26.3** with the text: "Base release Tag (`v1.26.3`)".

**v1.26.3-41+abad95a0536325**

Latest commit # on release branch (`release-1.26`)

Base release Tag (`v1.26.3`)

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

base: v1.26.3 ▾ compare: release-1.26 ▾

Commits 41 Files changed 56 16 contributors

Commits on Jan 4, 2023

CHANGELOG-1.26: move OpenStack in-tree provider removal to urgent notes ... Verified 302d46d

xmudrii committed on Jan 4 ✓

[github.com/kubernetes/kubernetes/compare/v1.26.3...release-1.26](https://github.com/kubernetes/kubernetes/compare/v1.26.3...release-1.26)

# Deep Dive (Example #2)

## Kubernetes Version Markers

The screenshot shows a GitHub comparison view between two branches:

- Base release Tag (v1.26.3)**: Circled in blue.
- v1.26.3-41+abad95ao536325**: The resulting version string, also circled in blue.
- No. of Commits between Head(v1.26.3) & latest commit #**: An annotation pointing to the commit count in the comparison interface.
- Latest commit # on release branch (release-1.26)**: An annotation pointing to the commit hash in the comparison interface.

**Comparing changes**  
Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

base: v1.26.3 ▾ compare: release-1.26 ▾

-o Commits 41 -o Files changed 56

Commits on Jan 4, 2023

CHANGELOG-1.26: move OpenStack in-tree provider removal to urgent notes ... Verified 302d46d

[github.com/kubernetes/kubernetes/compare/v1.26.3...release-1.26](https://github.com/kubernetes/kubernetes/compare/v1.26.3...release-1.26)

# Deep Dive (Example #2)

```
1 periodics:  
2   - name: ci-kubernetes-build-1-26  
3     cluster: k8s-infra-prow-build  
4     interval: 1h  
5     decorate: true  
6     extra_refs:  
7       - base_ref: release-1.26  
8         org: kubernetes  
9         repo: kubernetes  
10    annotations:  
11      testgrid-alert-email: release-managers+alerts@kubernetes.io,  
12                      release-team@kubernetes.io  
13      testgrid-dashboards: sig-release-1.26-blocking,  
14                      sig-release-releng-blocking  
15      testgrid-tab-name: build-1.26
```

# Deep Dive (Example #2)

```
1 periodics:
2   - name: ci-kubernetes-build-1-26
3     cluster: k8s-infra-prow-build
4     interval: 1h
5     decorate: true
6     extra_refs:
7       - base_ref: release-1.26
8         org: kubernetes
9         repo: kubernetes
10    annotations:
11      testgrid-alert-email: release-managers+alerts@kubernetes.io,
12                                release-team@kubernetes.io
13      testgrid-dashboards: sig-release-1.26-blocking,
14                            sig-release-releng-blocking
15      testgrid-tab-name: build-1.26
```

# Deep Dive (Example #2)

```
1 periodics:  
2   - name: ci-kubernetes-build-1-26  
3     cluster: k8s-infra-prow-build  
4     interval: 1h  
5     decorate: true  
6     extra_refs:  
7       - base_ref: release-1.26  
8         org: kubernetes  
9         repo: kubernetes  
10    annotations:  
11      testgrid-alert-email: release-managers+alerts@kubernetes.io,  
12                      release-team@kubernetes.io  
13      testgrid-dashboards: sig-release-1.26-blocking,  
14                      sig-release-releng-blocking  
15      testgrid-tab-name: build-1.26
```

# Deep Dive (Example #2)

```
16   labels:  
17     preset-dind-enabled: "true"  
18     preset-service-account: "true"  
19   spec:  
20     containers:  
21       image: gcr.io/k8s-staging-releng/k8s-ci-builder:latest-default  
22       imagePullPolicy: Always  
23       resources:  
24         limits:  
25           cpu: "7"  
26           memory: 34Gi  
27         requests:  
28           cpu: "7"  
29           memory: 34Gi  
30       securityContext:  
31         privileged: true
```

# Deep Dive (Example #2)

```
16   labels:  
17     preset-dind-enabled: "true"  
18     preset-service-account: "true"  
19   spec:  
20     containers:  
21       image: gcr.io/k8s-staging-releng/k8s-ci-builder:latest-default  
22       imagePullPolicy: Always  
23     resources:  
24       limits:  
25         cpu: "7"  
26         memory: 34Gi  
27       requests:  
28         cpu: "7"  
29         memory: 34Gi  
30     securityContext:  
31       privileged: true
```

# Deep Dive (Example #2)

```
32 - command:  
33   - wrapper.sh  
34   - /krel ←  
35   - ci-build  
36   - --configure-docker  
37   - --allow-dup  
38   - --bucket=k8s-release-dev  
39   - --registry=gcr.io/k8s-staging-ci-images  
40   - --extra-version-markers=k8s-stable1
```

*toolkit for managing different steps  
needed to create Kubernetes Releases*

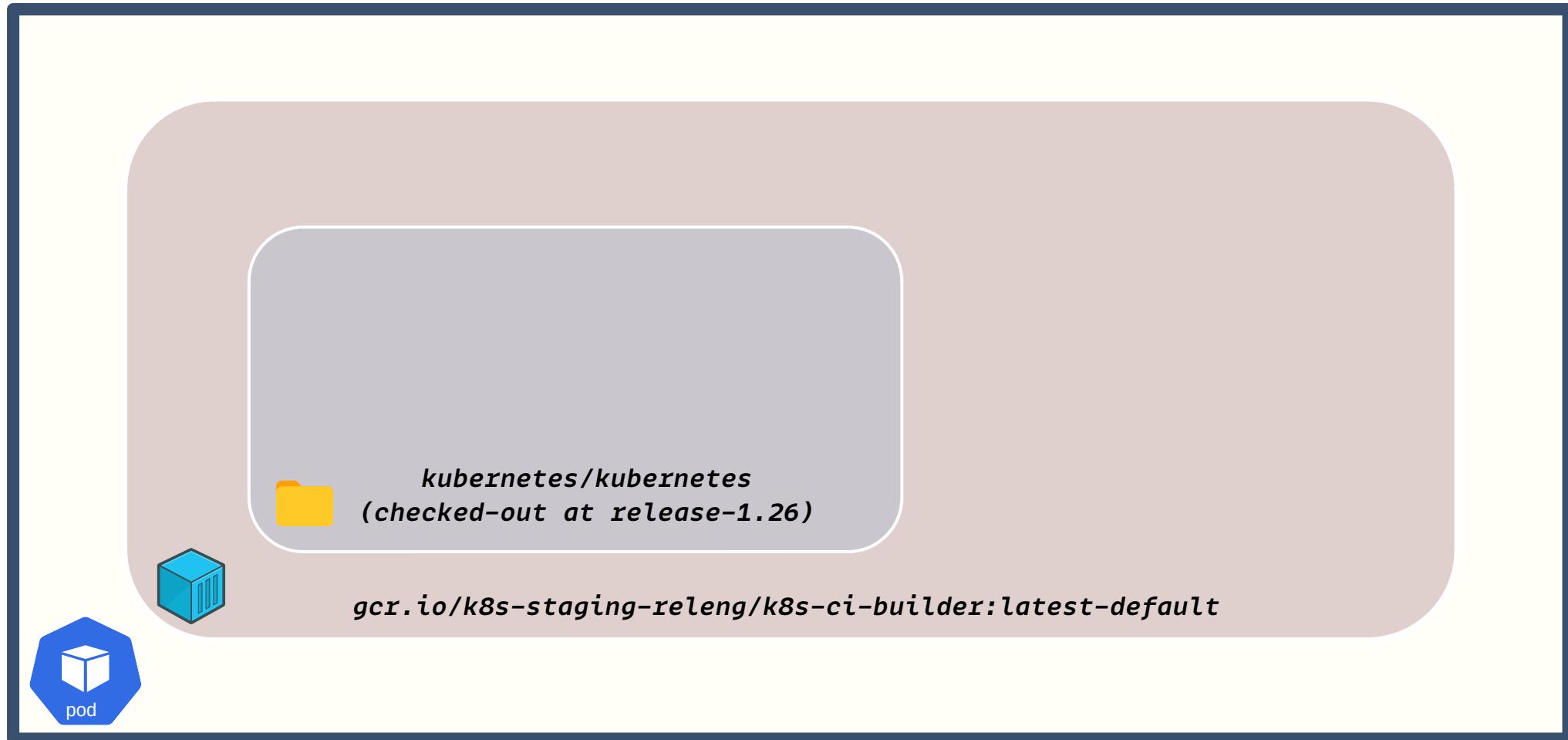
# Deep Dive (Example #2)



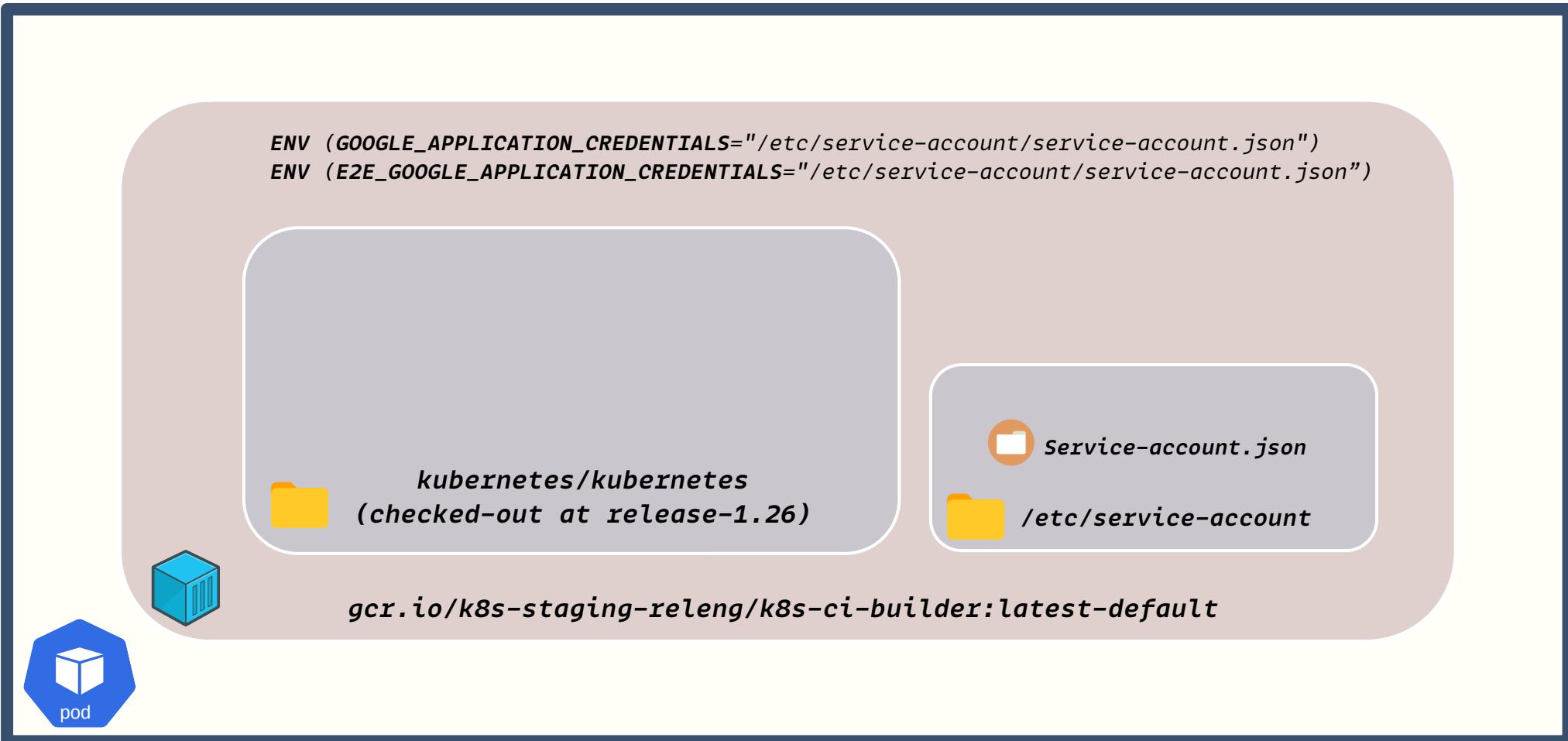
# Deep Dive (Example #2)



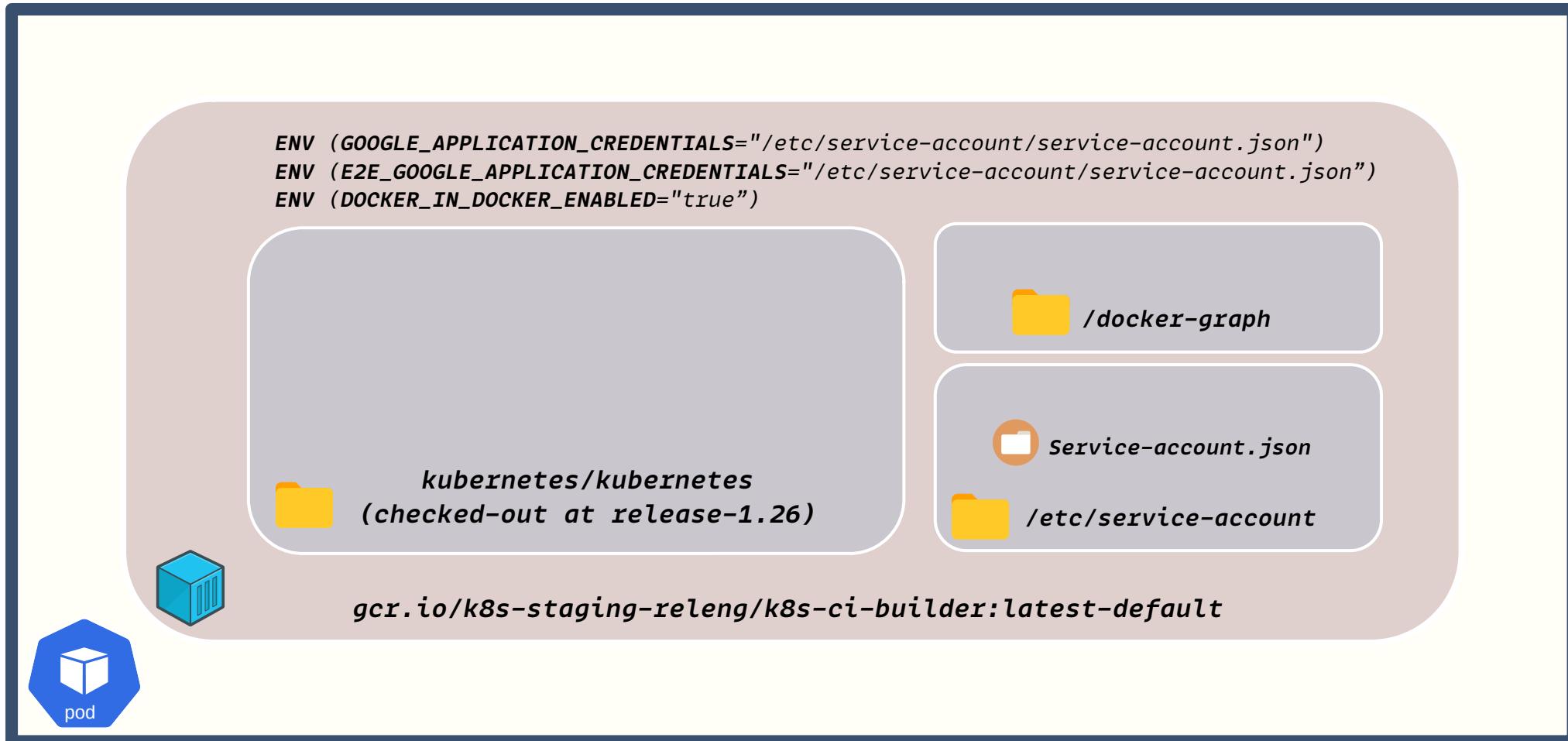
# Deep Dive (Example #2)



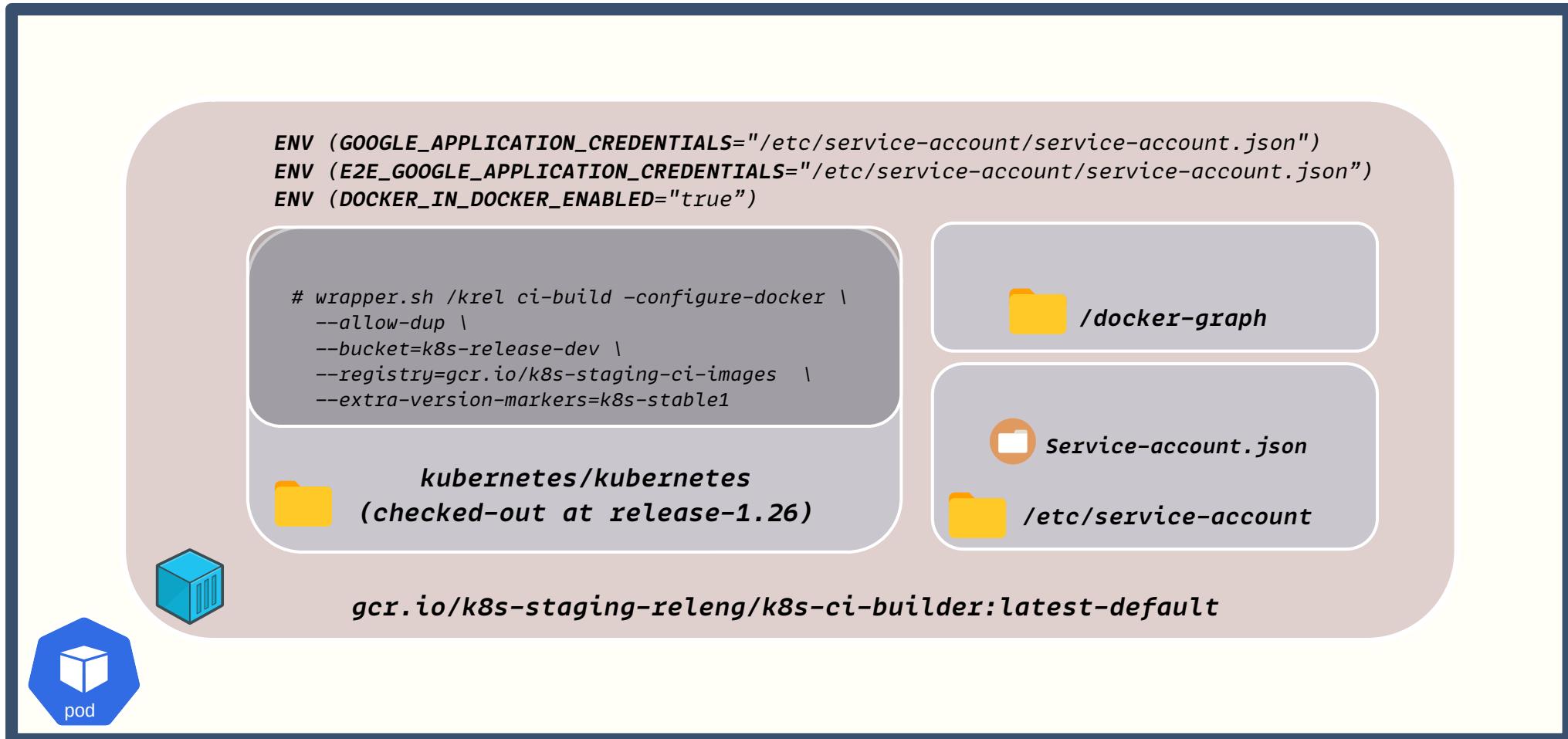
# Deep Dive (Example #2)



# Deep Dive (Example #2)



# Deep Dive (Example #2)

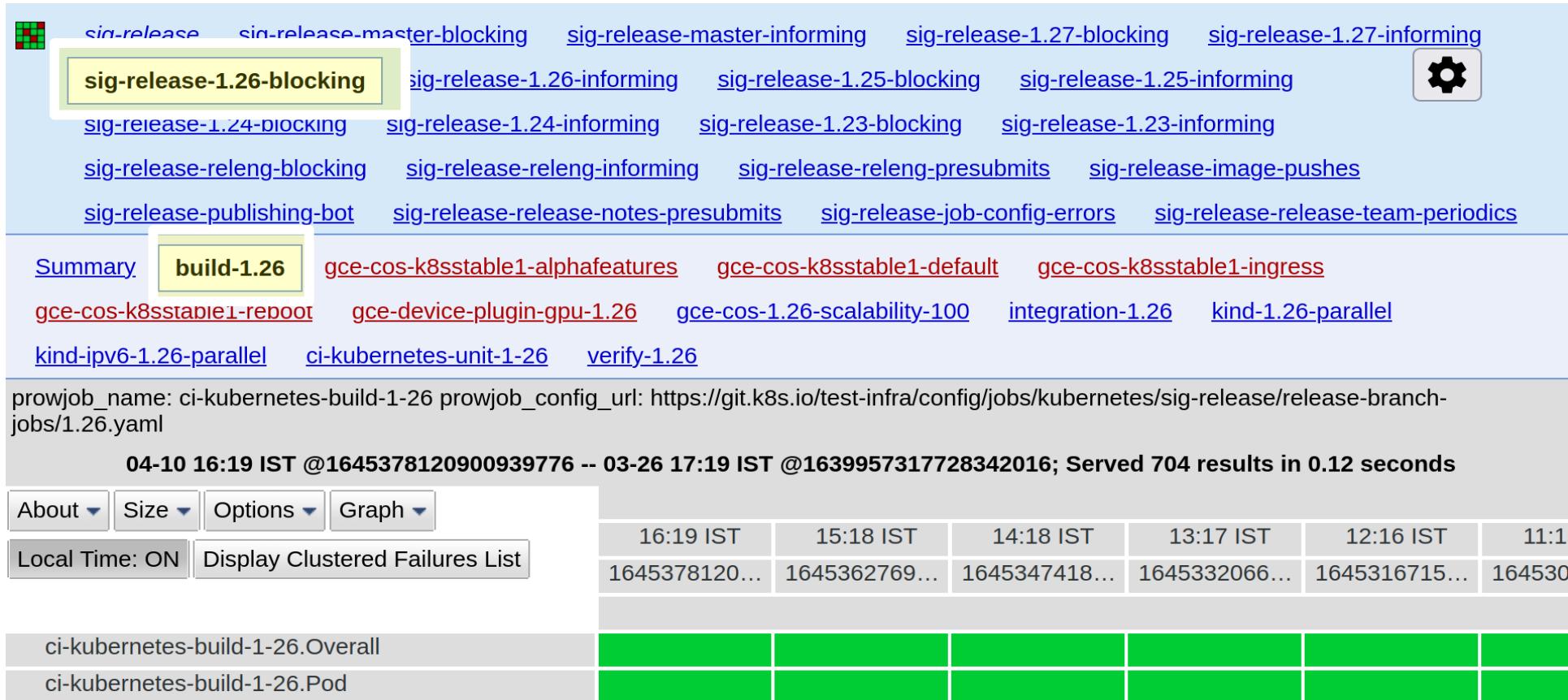


# Deep Dive (Example #2)

The screenshot shows a CI build interface for a job named "ci-kubernetes-build-1-26" with ID "#1645378120900939776". The build status is "passed" after 1m14s. The interface includes tabs for "Job History", "Prow Job YAML", "Artifacts", and "Testgrid". The "Build Log" section displays the following log output:

```
1 wrapper.sh] [INFO] Wrapping Test Command: `/krel ci-build --configure-docker --allow-dup --bucket=k8s-release-dev --registry=gcr.io/k8s-staging-ci-images --extra-version-markers=k8s-stable1`  
2 wrapper.sh] [INFO] Running in: gcr.io/k8s-staging-releng/k8s-ci-builder:v20230410-v0.15.0-231-g11eeb3d1-default  
3 wrapper.sh] [INFO] See: https://git.k8s.io/release/images/releng/k8s-ci-builder\(wrapper.sh  
4 ======  
5 wrapper.sh] [SETUP] Performing pre-test setup ...  
6 wrapper.sh] [SETUP] Docker in Docker enabled, initializing ...  
7 Starting Docker: docker.  
8 wrapper.sh] [SETUP] Waiting for Docker to be ready, sleeping for 1 seconds ...  
9 wrapper.sh] [SETUP] Done setting up Docker in Docker.  
10 wrapper.sh] activating service account from GOOGLE_APPLICATION_CREDENTIALS ...  
11 Activated service account credentials for: [prow-build@k8s-infra-prow-build.iam.gserviceaccount.com]  
12 wrapper.sh] [SETUP] Setting SOURCE_DATE_EPOCH for build reproducibility ...  
13 wrapper.sh] [SETUP] exported SOURCE_DATE_EPOCH=1680792108  
14 ======  
15 wrapper.sh] [TEST] Running Test Command: `/krel ci-build --configure-docker --allow-dup --bucket=k8s-release-dev --registry=gcr.io/k8s-staging-ci-images --extra-version-markers=k8s-stable1` ...  
16 level=info msg="Build type has been set to ci"
```

# Deep Dive (Example #2)



**Version Markers lead us ...**

# **Deep Dive (Example #3)**



*Photo by SGR on Unsplash*

# **Deep Dive (E2E Tests)**

# Deep Dive (Example #3)

# Deep Dive (Example #3)

```
1 periodics:
2   - name: ci-kubernetes-gce-conformance-latest
3     cluster: k8s-infra-prow-build
4     interval: 3h
5     labels:
6       preset-service-account: "true"
7       preset-k8s-ssh: "true"
8     annotations:
9       testgrid-dashboards: conformance-all, conformance-gce
10      testgrid-tab-name: Conformance - GCE - master
11      description: Runs conformance tests using
12          kubetest against kubernetes master on GCE
13      fork-per-release: "true"
14      fork-per-release-replacements: "--extract=ci/latest-fast →
15          --extract=ci/latest-{{.Version}}"
```

# Deep Dive (Example #3)

```
1 periodics:
2   - name: ci-kubernetes-gce-conformance-latest
3     cluster: k8s-infra-prow-build
4     interval: 3h
5     labels:
6       preset-service-account: "true"
7       preset-k8s-ssh: "true"
8     annotations:
9       testgrid-dashboards: conformance-all, conformance-gce
10      testgrid-tab-name: Conformance - GCE - master
11      description: Runs conformance tests using
12          kubetest against kubernetes master on GCE
13      fork-per-release: "true"
14      fork-per-release-replacements: "--extract=ci/latest-fast →
15          --extract=ci/latest-{{.Version}}"
```

# Deep Dive (Example #3)

```
1 periodics:
2   - name: ci-kubernetes-gce-conformance-latest
3     cluster: k8s-infra-prow-build
4     interval: 3h
5     labels:
6       preset-service-account: "true"
7       preset-k8s-ssh: "true"
8     annotations:
9       testgrid-dashboards: conformance-all, conformance-gce
10      testgrid-tab-name: Conformance - GCE - master
11      description: Runs conformance tests using
12          kubetest against kubernetes master on GCE
13      fork-per-release: "true"
14      fork-per-release-replacements: "--extract=ci/latest-fast → ←
15                                     --extract=ci/latest-{{.Version}}"
```

*Fork the job & allow  
replacing values in  
job container args [1]*

# Deep Dive (Example #3)

```
15 spec:  
16   containers:  
17     - image: gcr.io/k8s-staging-test-infra/kubekins-e2e:v20230406-23cb1879e3-master ← ship Kubetest,  
18       args:  
19         - --timeout=220  
20         - --bare  
21         - --scenario=kubernetes_e2e  
22         - --  
23         - --extract=ci/latest-fast  
24         - --extract-ci-bucket=k8s-release-dev  
25         - --gcp-master-image=gci  
26         - --gcp-node-image=gci  
27         - --gcp-zone=us-west1-b  
28         - --provider=gce  
29         - --test_args---ginkgo.focus=\[Conformance\]  
30         - --timeout=200m  
  
2: git.k8s.io/test-infra/images/kubekins-e2e
```

*gcloud, kubectl, checkout k/test-infra, among others [2]*

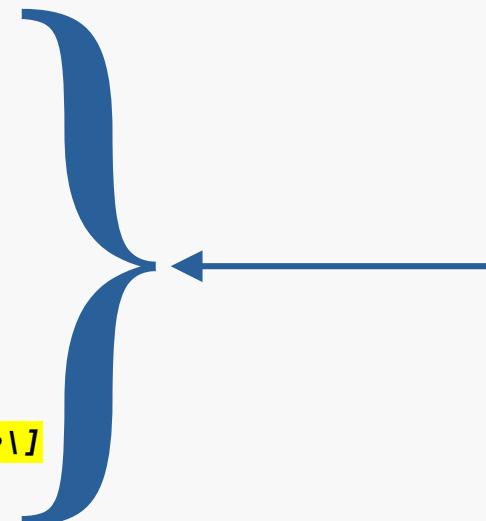
# Deep Dive (Example #3)

```
15 spec:  
16   containers:  
17     - image: gcr.io/k8s-staging-test-infra/kubekins-e2e:v20230406-23cb1879e3-master  
18       args:  
19         - --timeout=220  
20         - --bare  
21         - --scenario=kubernetes_e2e ←  
22         - --  
23         - --extract=ci/latest-fast  
24         - --extract-ci-bucket=k8s-release-dev  
25         - --gcp-master-image=gci  
26         - --gcp-node-image=gci  
27         - --gcp-zone=us-west1-b  
28         - --provider=gce  
29         - --test_args=--ginkgo.focus=\"[Conformance]\"  
30         - --timeout=200m
```

*Points which test scenario to use [3]*

# Deep Dive (Example #3)

```
15 spec:  
16   containers:  
17     - image: gcr.io/k8s-staging-test-infra/kubekins-e2e:v20230406-23cb1879e3-master  
18       args:  
19         - --timeout=220  
20         - --bare  
21         - --scenario=kubernetes_e2e  
22         - --  
23         - --extract=ci/latest-fast  
24         - --extract-ci-bucket=k8s-release-dev  
25         - --gcp-master-image=gci  
26         - --gcp-node-image=gci  
27         - --gcp-zone=us-west1-b  
28         - --provider=gce  
29         - --test_args=--ginkgo.focus=\[Conformance\]  
30         - --timeout=200m
```



*Configuration options  
for 'test scenario [3]*

# Deep Dive (Example #3)



# Deep Dive (Example #3)

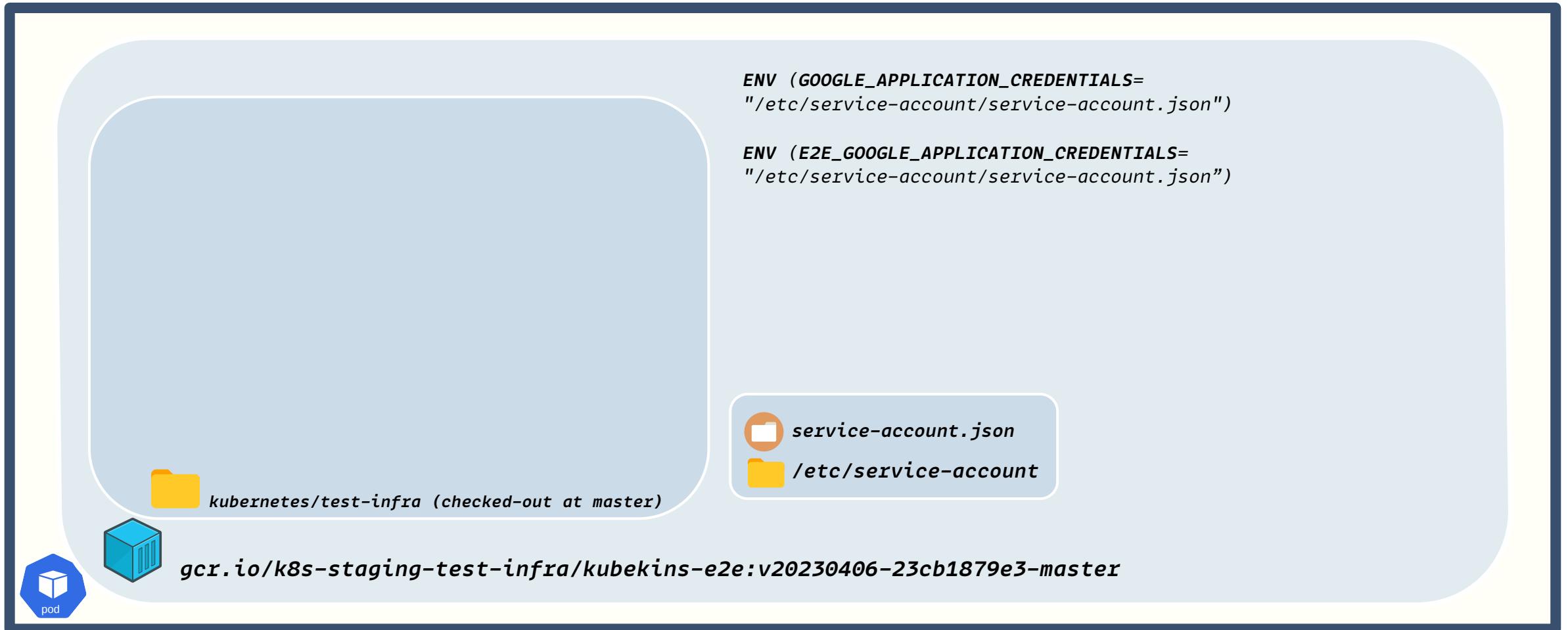


*gcr.io/k8s-staging-test-infra/kubekins-e2e:v20230406-23cb1879e3-master*

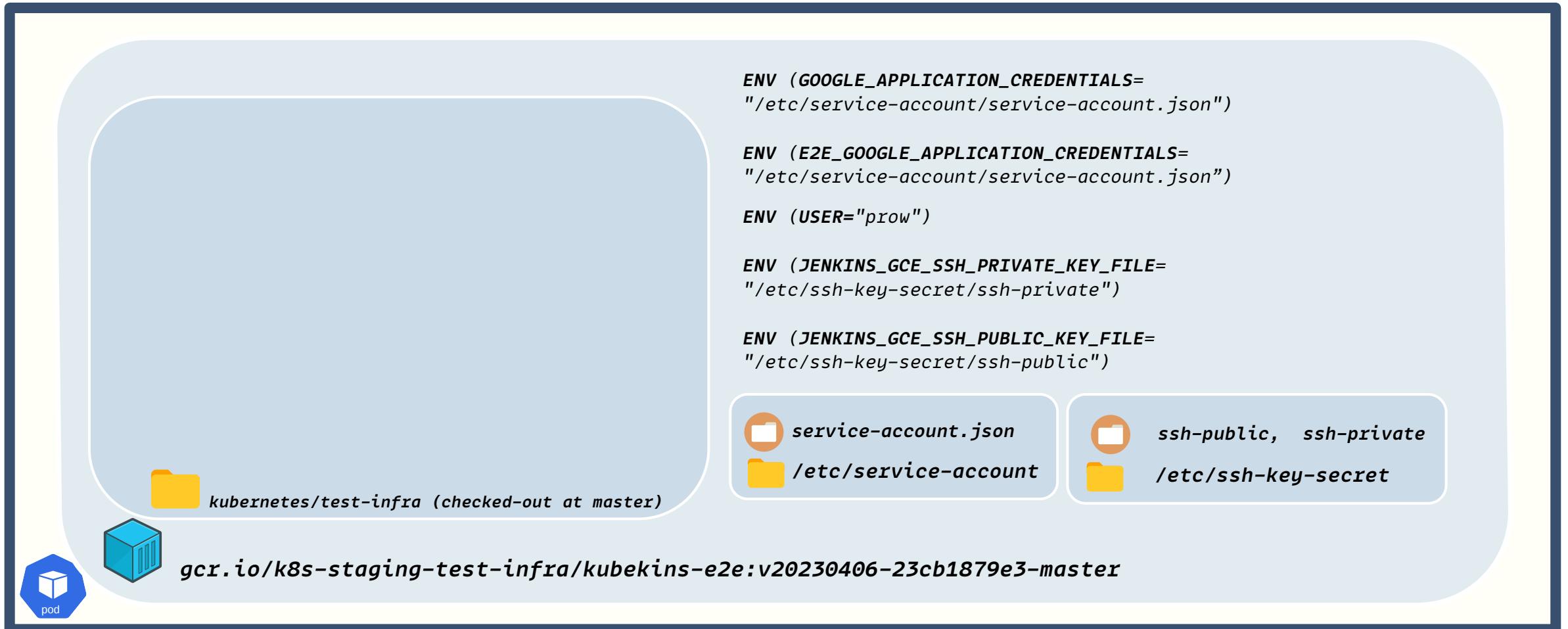
# Deep Dive (Example #3)



# Deep Dive (Example #3)



# Deep Dive (Example #3)



# Deep Dive (Example #3)

```
/workspace/.test-infra/jenkins/\
..scenarios/kubernetes_e2e.py \
--extract=ci/latest-fast \
--extract-ci-bucket=k8s-release-dev \
--gcp-master-image=gci \
--gcp-node-image=gci \
--gcp-zone=us-west1-b \
--provider=gce \
'--test_args==ginkgo.focus=[Conformance]' \
--timeout=200m
```



kubernetes/test-infra (checked-out at master)



gcr.io/k8s-staging-test-infra/kubekins-e2e:v20230406-23cb1879e3-master

```
ENV (GOOGLE_APPLICATION_CREDENTIALS=
"/etc/service-account/service-account.json")
```

```
ENV (E2E_GOOGLE_APPLICATION_CREDENTIALS=
"/etc/service-account/service-account.json")
```

```
ENV (USER="prow")
```

```
ENV (JENKINS_GCE_SSH_PRIVATE_KEY_FILE=
"/etc/ssh-key-secret/ssh-private")
```

```
ENV (JENKINS_GCE_SSH_PUBLIC_KEY_FILE=
"/etc/ssh-key-secret/ssh-public")
```



service-account.json



/etc/service-account



ssh-public, ssh-private



/etc/ssh-key-secret

# Deep Dive (Example #3)

```
Kubetest --dump=/workspace/_artifacts \
--gcp-service-account=/etc/service-account/service-
account.json \
--up -down -test \
--provider=gce --cluster=bootstrap-e2e \
--gcp-network=bootstrap-e2e \
--extract=ci/latest-fast \
--extract-ci-bucket=k8s-release-dev \
--gcp-master-image=gci \
--gcp-node-image=gci \
--gcp-zone=us-west1-b \
--test_args==ginkgo.focus=\\"[Conformance]\\\" \
--timeout=200m'
```



kubernetes/test-infra (checked-out at master)



gcr.io/k8s-staging-test-infra/kubekins-e2e:v20230406-23cb1879e3-master

```
ENV (GOOGLE_APPLICATION_CREDENTIALS=
"/etc/service-account/service-account.json")
```

```
ENV (E2E_GOOGLE_APPLICATION_CREDENTIALS=
"/etc/service-account/service-account.json")
```

```
ENV (USER="prow")
```

```
ENV (JENKINS_GCE_SSH_PRIVATE_KEY_FILE=
"/etc/ssh-key-secret/ssh-private")
```

```
ENV (JENKINS_GCE_SSH_PUBLIC_KEY_FILE=
"/etc/ssh-key-secret/ssh-public")
```



service-account.json



/etc/service-account



ssh-public, ssh-private



/etc/ssh-key-secret

# Deep Dive (Example #3)

```
Kubetest --dump=/workspace/_artifacts \
--gcp-service-account=/etc/service-account/service-
account.json \
--up --down -test \
--provider=gce --cluster=bootstrap-e2e \
--gcp-network=bootstrap-e2e \
--extract=ci/latest-fast \
--extract-ci-bucket=k8s-release-dev \
--gcp-master-image=gci \
--gcp-node-image=gci \
--gcp-zone=us-west1-b \
--test_args==ginkgo.focus=\\"[Conformance]\\\" \
--timeout=200m'
```



kubernetes/test-infra (checked-out at master)



gcr.io/k8s-staging-test-infra/kubekins-e2e:v20230406-23cb1879e3-master

ENV (GOOGLE\_APPLICATION\_CREDENTIALS=  
"/etc/service-account/service-account.json")

ENV (E2E\_GOOGLE\_APPLICATION\_CREDENTIALS=  
"/etc/service-account/service-account.json")

ENV (USER="prow")

ENV (JENKINS\_GCE\_SSH\_PRIVATE\_KEY\_FILE=  
"/etc/ssh-key-secret/ssh-private")

ENV (JENKINS\_GCE\_SSH\_PUBLIC\_KEY\_FILE=  
"/etc/ssh-key-secret/ssh-public")



service-account.json



/etc/service-account



ssh-public, ssh-private



/etc/ssh-key-secret

# Deep Dive (Example #3)

- `gcloud auth activate-service-account  
--key-file=/etc/service-account/service-account.json`
- **Activated service account credentials for: [prow-build@k8s-infra-prow-build.iam.serviceaccount.com]**
- **--gcp-project is missing, trying to fetch a project from boskos, will acquire project type gce-project from boskos**
- `gcloud config set project k8s-infra-e2e-boskos-012`



`kubernetes/test-infra (checked-out at master)`



`gcr.io/k8s-staging-test-infra/kubekins-e2e:v20230406-23cb1879e3-master`

`ENV (GOOGLE_APPLICATION_CREDENTIALS=  
"/etc/service-account/service-account.json")`

`ENV (E2E_GOOGLE_APPLICATION_CREDENTIALS=  
"/etc/service-account/service-account.json")`

`ENV (USER="prow")`

`ENV (JENKINS_GCE_SSH_PRIVATE_KEY_FILE=  
"/etc/ssh-key-secret/ssh-private")`

`ENV (JENKINS_GCE_SSH_PUBLIC_KEY_FILE=  
"/etc/ssh-key-secret/ssh-public")`



`service-account.json`



`/etc/service-account`



`ssh-public, ssh-private`



`/etc/ssh-key-secret`

# Deep Dive (Example #3)

```
Kubetest --dump=/workspace/_artifacts \
--gcp-service-account=/etc/service-account/service-
account.json \
--up -down -test \
--provider=gce --cluster=bootstrap-e2e \
--gcp-network=bootstrap-e2e \
--extract=ci/latest-fast \
--extract-ci-bucket=k8s-release-dev \
--gcp-master-image=gci \
--gcp-node-image=gci \
--gcp-zone=us-west1-b \
--test_args---ginkgo.focus=\\"[Conformance]\\\" \
--timeout=200m'
```



kubernetes/test-infra (checked-out at master)



`gcr.io/k8s-staging-test-infra/kubekins-e2e:v20230406-23cb1879e3-master`

ENV (`GOOGLE_APPLICATION_CREDENTIALS=`  
`"/etc/service-account/service-account.json")`

ENV (`E2E_GOOGLE_APPLICATION_CREDENTIALS=`  
`"/etc/service-account/service-account.json")`

ENV (`USER="prow"`)

ENV (`JENKINS_GCE_SSH_PRIVATE_KEY_FILE=`  
`"/etc/ssh-key-secret/ssh-private")`

ENV (`JENKINS_GCE_SSH_PUBLIC_KEY_FILE=`  
`"/etc/ssh-key-secret/ssh-public")`



`service-account.json`



`/etc/service-account`



`ssh-public, ssh-private`



`/etc/ssh-key-secret`

# Deep Dive (Example #3)

- **U:** <https://storage.googleapis.com/k8s-release-dev/ci/latest-fast.txt>
- **R:** v1.28.0-alpha.0.28+ad18954259eae3
- **Downloading kubernetes release**  
v1.28.0-alpha.0.28+ad18954259eae3
- **Copying** gs://k8s-release-dev/ci/fast/v1.28.0-alpha.0.28+ad18954259eae3/kubernetes-\*.tar.gz
- **Unpacking kubernetes release**  
v1.28.0-alpha.0.28+ad18954259eae3



kubernetes/test-infra (checked-out at master)



gcr.io/k8s-staging-test-infra/kubekins-e2e:v20230406-23cb1879e3-master

```
ENV (GOOGLE_APPLICATION_CREDENTIALS=
"/etc/service-account/service-account.json")
```

```
ENV (E2E_GOOGLE_APPLICATION_CREDENTIALS=
"/etc/service-account/service-account.json")
```

```
ENV (USER="prow")
```

```
ENV (JENKINS_GCE_SSH_PRIVATE_KEY_FILE=
"/etc/ssh-key-secret/ssh-private")
```

```
ENV (JENKINS_GCE_SSH_PUBLIC_KEY_FILE=
"/etc/ssh-key-secret/ssh-public")
```



service-account.json



/etc/service-account



ssh-public, ssh-private



/etc/ssh-key-secret

# Deep Dive (Example #3)

```
Kubetest --dump=/workspace/_artifacts \
--gcp-service-account=/etc/service-account/service-
account.json \
--up -down -test \
--provider=gce --cluster=bootstrap-e2e \
--gcp-network=bootstrap-e2e \
--extract=ci/latest-fast \
--extract-ci-bucket=k8s-release-dev \
--gcp-master-image=gci \
--gcp-node-image=gci \
--gcp-zone=us-west1-b \
--test_args==ginkgo.focus=\\"[Conformance]\\\" \
--timeout=200m'
```



kubernetes/test-infra (checked-out at master)



gcr.io/k8s-staging-test-infra/kubekins-e2e:v20230406-23cb1879e3-master

```
ENV (GOOGLE_APPLICATION_CREDENTIALS=
"/etc/service-account/service-account.json")
```

```
ENV (E2E_GOOGLE_APPLICATION_CREDENTIALS=
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```

```
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```

```
ENV (JENKINS_GCE_SSH_PRIVATE_KEY_FILE=
"/etc/ssh-key-secret/ssh-private")
```

```
ENV (JENKINS_GCE_SSH_PUBLIC_KEY_FILE=
"/etc/ssh-key-secret/ssh-public")
```



service-account.json



/etc/service-account



ssh-public, ssh-private



/etc/ssh-key-secret

# Deep Dive (Example #3)

- Starting cluster in us-west1-b using provider gce
- Staging tars to Google Storage:  
gs://kubernetes-staging-39be324ba2-us-central1/bootstrap-e2e-devel



kubernetes/test-infra (checked-out at master)



gcr.io/k8s-staging-test-infra/kubekins-e2e:v20230406-23cb1879e3-master

```
ENV (GOOGLE_APPLICATION_CREDENTIALS=
"/etc/service-account/service-account.json")
```

```
ENV (E2E_GOOGLE_APPLICATION_CREDENTIALS=
"/etc/service-account/service-account.json")
```

```
ENV (USER="prow")
```

```
ENV (JENKINS_GCE_SSH_PRIVATE_KEY_FILE=
"/etc/ssh-key-secret/ssh-private")
```

```
ENV (JENKINS_GCE_SSH_PUBLIC_KEY_FILE=
"/etc/ssh-key-secret/ssh-public")
```



service-account.json



/etc/service-account



ssh-public, ssh-private



/etc/ssh-key-secret

# Deep Dive (Example #3)



(*Kubernetes Cluster: k8s-infra-e2e-boskos-012\_bootstrap-e2e*)



Google Cloud

(*Project: k8s-infra-e2e-boskos-012, Zone: us-west1-b*)

# Deep Dive (Example #3)

- `kubectl config set-context \ cluster=k8s-infra-e2e-boskos-012_bootstrap-e2e`
- `./hack/ginkgo-e2e.sh -ginkgo.focus=[Conformance\] --report-dir=/workspace/_artifacts --disable-log-dump=true`



`kubernetes/test-infra` (checked-out at `master`)



`gcr.io/k8s-staging-test-infra/kubekins-e2e:v20230406-23cb1879e3-master`

`ENV (GOOGLE_APPLICATION_CREDENTIALS=`  
`"/etc/service-account/service-account.json")`

`ENV (E2E_GOOGLE_APPLICATION_CREDENTIALS=`  
`"/etc/service-account/service-account.json")`

`ENV (USER="prow")`

`ENV (JENKINS_GCE_SSH_PRIVATE_KEY_FILE=`  
`"/etc/ssh-key-secret/ssh-private")`

`ENV (JENKINS_GCE_SSH_PUBLIC_KEY_FILE=`  
`"/etc/ssh-key-secret/ssh-public")`



`service-account.json`



`/etc/service-account`



`ssh-public, ssh-private`



`/etc/ssh-key-secret`

# Deep Dive (Example #3)

```
Running Suite: Kubernetes e2e suite - /workspace/kubernetes/platforms/linux/amd64
=====
random Seed: 1681138910 - will randomize all specs
...
Ran 378 of 7207 Specs in 6876.707 seconds
SUCCESS! -- 378 Passed | 0 Failed | 0 Pending | 6829 Skipped

Ginkgo ran 1 suite in 1h54m38.847150759s
Test Suite Passed
```



(Kubernetes Cluster: k8s-infra-e2e-boskos-012\_bootstrap-e2e)



Google Cloud

(Project: k8s-infra-e2e-boskos-012, Zone: us-west1-b)

# Deep Dive (Example #3)

*Dumping logs from nodes locally to '/workspace/\_artifacts'*



*(Kubernetes Cluster: k8s-infra-e2e-boskos-012\_bootstrap-e2e)*



Google Cloud

*(Project: k8s-infra-e2e-boskos-012, Zone: us-west1-b)*

# Deep Dive (Example #3)

*Bringing down cluster using provider: gce*



*kubernetes/test-infra (checked-out at master)*



*gcr.io/k8s-staging-test-infra/kubekins-e2e:v20230406-23cb1879e3-master*



```
ENV (GOOGLE_APPLICATION_CREDENTIALS=
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*service-account.json*



*/etc/service-account*



*ssh-public, ssh-private*



*/etc/ssh-key-secret*

# Deep Dive (Example #3)

- *Upload results to gs://kubernetes-jenkins/logs using prow-build@k8s-infra-prow-build.iam.gserviceaccount.com*
- *Becomes available at Spyglass <https://prow.k8s.io/view/gcs/kubernetes-jenkins/logs/ci-kubernetes-gce-conformance-latest/1645394981822664704>*



kubernetes/test-infra (checked-out at master)



`gcr.io/k8s-staging-test-infra/kubekins-e2e:v20230406-23cb1879e3-master`

```
ENV (GOOGLE_APPLICATION_CREDENTIALS=
"/etc/service-account/service-account.json")
```

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service-account.json



/etc/service-account



ssh-public, ssh-private



/etc/ssh-key-secret

# Deep Dive (Example #3)

- process 15532 exited with code 0 after 0.0m*

**FIN!**



*kubernetes/test-infra (checked-out at master)*



*gcr.io/k8s-staging-test-infra/kubekins-e2e:v20230406-23cb1879e3-master*

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*service-account.json*



*/etc/service-account*

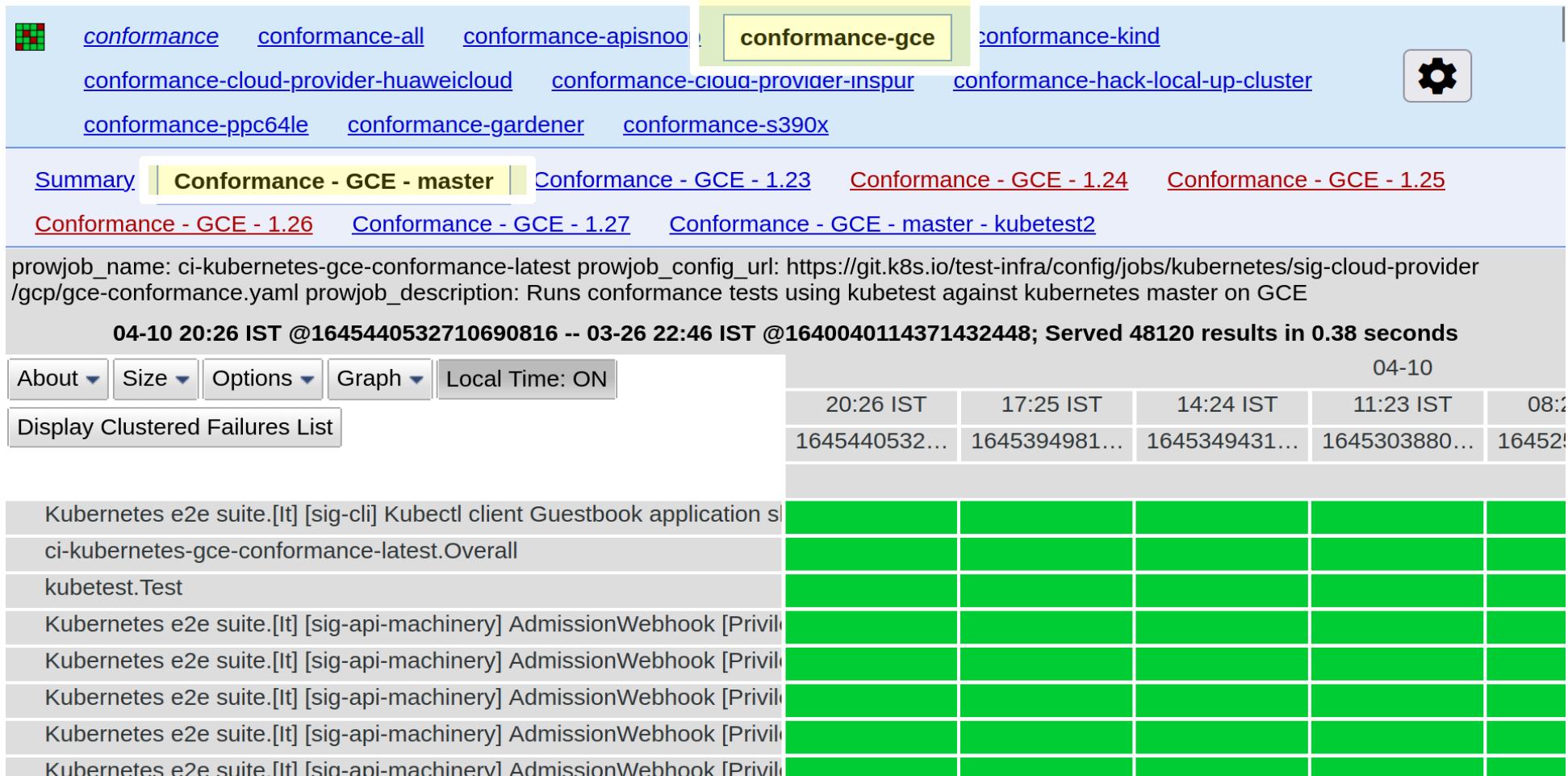


*ssh-public, ssh-private*



*/etc/ssh-key-secret*

# Deep Dive (Example #3)



[testgrid.k8s.io/conformance-gce#Conformance - GCE- master](https://testgrid.k8s.io/conformance-gce#Conformance - GCE- master)

# Deep Dive (Example #3)

**The Kubernetes Project now recommends using *Kubetest2* as it is more modular, has simplified code structure, and serves as the successor to Kubetest.**

ARE YOU COMING TO BED?

I CAN'T. THIS  
IS IMPORTANT.

WHAT? |

*something IS WRONG*

**with my ProwJobs!**



# **Testing Prow Jobs!**

# Testing Prow Jobs!



**dims** commented on Apr 7, 2022

Member

...

if you want to simulate close to what runs in CI, you can

- pull kube-cross image using `docker pull k8s.gcr.io/build-image/kube-cross:v1.24.0-go1.18-bullseye.0`
- cd to kubernetes directory and then run `docker run --privileged -it -rm -v $(pwd):/go/src/k8s.io/kubernetes --entrypoint=/bin/bash 1ee0a01e74fd` where `1ee0a01e74fd` is the image id of the image from `docker images`

that will take you to the prompt, where you can `cd /go/src/k8s.io/kubernetes` and then run `./hack/verify-licenses` from there.



# Testing Prow Jobs!

```
# Clone `kubernetes/test-infra` repo
$ git clone https://github.com/kubernetes/test-infra.git
$ cd test-infra
```

```
# grab the name of the Prow Job & its URL from prow.k8s.io [1]
$ go run ./prow/cmd/phaino <URL>
```

```
# use `mkpj.sh` to create the prow job crd locally
$ ./config/mkpj.sh --job="job-name" > /tmp/foo
```

```
# make changes and test again
$ vim /tmp/foo
$ go run ./prow/cmd/phaino /tmp/foo
```

# Testing Prow Jobs!

kubernetes / test-infra Public

Edit Pins Watch 131 Fork 2.4k Star 3.6k

Code Issues 119 Pull requests 67 Actions Projects 2 Security Insights

## Add postsubmit job to generate sigs.yaml #28824

Open ezzoueidi wants to merge 1 commit into kubernetes:master from ezzoueidi:community-6529

Conversation 3 Commits 1 Checks 0 Files changed 1 +24 -0

Changes from all commits File filter Conversations Jump to Viewed Review changes

24 config/jobs/kubernetes/community/community-postsubmits.yaml

```
@@ -0,0 +1,24 @@
+ # kubernetes/community postsubmits
+ postsubmits:
+   kubernetes/community:
+     - name: generate-sigs
+       branches:
+         - ^master$
+       decorate: true
+       path_alias: k8s.io/community
+       always_run: false
+       run_if_changed: '^sigs.yaml'
+       labels:
+         preset-dind-enabled: "true"
+       spec:
+         containers:
+           - image: golang:1.18
+             command:
+               - make
+             args:
+               - generate-dockerized
+             # we need privileged mode in order to do docker in docker
+             securityContext:
+               privileged: true
+             annotations:
+               testgrid-dashboards: sig-contribex-org
```

# **Conclusion**

# Looking Back ...

- We learned what a *Prow Job* was

# Looking Back ...

- We learned what a Prow Job was
- We learned about the *types* of Prow Jobs

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# Looking Back ...

- We learned what a Prow Job was
- We learned about the types of Prow Jobs
- We peeked into their internal anatomy to see what they were made of
- We learnt about reducing redundancy with *presets*, adding functionality with *pod-utils* and giving jobs a sense of the world with *job environment variables*

# Looking Back ...

- We learned what a Prow Job was
- We learned about the types of Prow Jobs
- We peeked into their internal anatomy to see what they were made of
- We learnt about reducing redundancy with presets, adding functionality with pod-utils and giving jobs a sense of the world with job environment variables
- **We saw how to *visualize* jobs and drill into their details using *Testgrid* & *Spyglass***

# Looking Back ...

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- We learned about the types of Prow Jobs
- We peeked into their internal anatomy to see what they were made of
- We learnt about reducing redundancy with presets, adding functionality with pod-utils and giving jobs a sense of the world with job environment variables
- We saw how to visualize jobs and drill into their details using Testgrid & Spyglass
- **We looked at *where* jobs resided, in the *test-infra* repo.**  
**We searched and sniffed them out using *Hound***

# Looking Back ...

- We learned what a Prow Job was
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- We looked at where jobs resided, in the test-infra repo. We searched and sniffed them out using Hound
- **And finally we dove headfirst into various *examples* to see how *ProwJobs live in the real world***

# Looking Back ...

- We learned what a Prow Job was
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- We peeked into their internal anatomy to see what they were made of
- We learnt about reducing redundancy with presets, adding functionality with pod-utils and giving jobs a sense of the world with job environment variables
- We saw how to visualize jobs and drill into their details using Testgrid & Spyglass
- We looked at where jobs resided, in the test-infra repo. We searched and sniffed them out using Hound
- And finally we dove headfirst into various examples to see how ProwJobs live in the real world

# **Looking Forward ...**

We hope the one thing we leave you with, is the confidence to go *read* ProwJobs, to *poke* and *prod* at them, *analyse* them, and have them bend to your will.

*Try it:* [prow.k8s.io](https://prow.k8s.io), [testgrid.k8s.io](https://testgrid.k8s.io)

*Source Code:* [git.k8s.io/test-infra](https://git.k8s.io/test-infra)

*Slides:* [sched.co/1HyYE](https://sched.co/1HyYE)

#### *Contact Information:*

#sig-testing, #sig-k8s-infra on [slack.k8s.io](https://slack.k8s.io)

Slack: **@psaggu & @jasonbraganza**

Email: [priyankasaggu11929@gmail.com](mailto:priyankasaggu11929@gmail.com) /  
[jason@janusworx.com](mailto:jason@janusworx.com)



Scan to leave feedback  
on this session

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#### *Contact Information:*

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Slack: **@psaggu & @jasonbraganza**

Email: [priyankasaggu11929@gmail.com](mailto:priyankasaggu11929@gmail.com) /  
[jason@janusworx.com](mailto:jason@janusworx.com)

#### **Reach Out!**

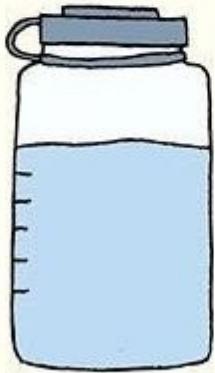


Scan to leave feedback  
on this session

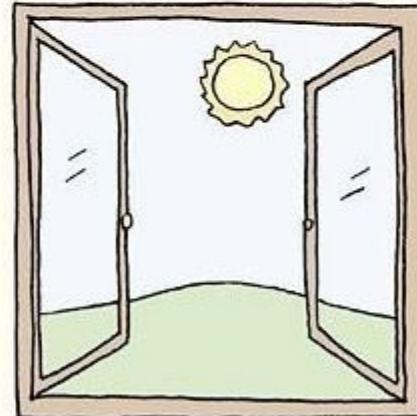
# Questions?

# DON'T FORGET

DRINK WATER.



GET SUNLIGHT.



YOU'RE  
BASICALLY A  
HOUSE PLANT  
WITH MORE  
COMPLICATED  
EMOTIONS.

