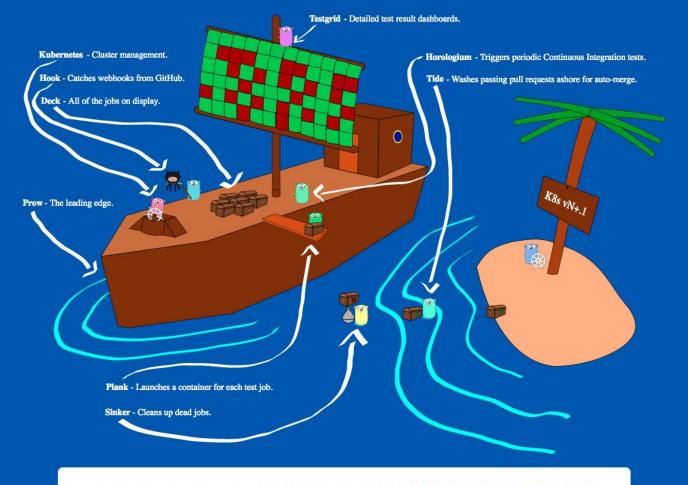




Source: http://gunshowcomic.com/648



Prow - extended nautical metaphor. Go Gopher originally by Renee French, SVG version by Takuya Ueda, modified under the CC BY 3.0 license. Ship's wheel from Kubernetes logo by Tim Hockin.

prow



used by







\$

approve	assign	blockade	blunderbuss	cat	cla	close
The approve plugin implements a pull request approval process that manages the 'approved' label and an approval notification comment.	The assign plugin assigns or requests reviews from users.	The blockade plugin blocks pull requests from merging if they touch specific files.	The blunderbuss plugin automatically requests reviews from reviewers when a new PR is created.	The cat plugin adds a cat image to an issue in response to the '/meow' command.	The cla plugin manages the application and removal of the 'cncf-cla' prefixed labels on pull requests as a reaction to the cla/linuxfoundation github status context.	Deprecated! Please use the lifecycle plugin instead of close.
DETAILS	DETAILS	DETAILS	DETAILS	DETAILS	DETAILS	DETAILS
config-updater	docs-no-retest	dog	golint	heart	help	hold
The config-updater plugin automatically redeploys configuration and plugin configuration files when they change.	The docs-no-retest plugin applies the 'retest- not-required-docs-only' label to pull requests that only touch documentation type files and thus do not need to be retested against the latest master commit before merging.	The dog plugin adds a dog image to an issue in response to the '/woof' command.	The golint plugin runs golint on changes made to *.	The heart plugin celebrates certain Github actions with the reaction emojis.	The help plugin provides commands that add or remove the help wanted label from issues.	The hold plugin allows anyone to add or remove the do-not-merge/hold label from a pull request in order to temporarily prevent the PR from merging without withholding approval.
DETAILS	DETAILS	DETAILS	DETAILS	DETAILS	DETAILS	DETAILS
label	lgtm	lifecycle	milestone	milestonestatus	needs-rebaseexternal plugin	owners-label
The label plugin provides commands that add or remove certain types of labels.	The Igtm plugin manages the application and removal of the 'Igtm' (Looks Good To Me) label which is typically used to gate merging.	Close, reopen, flag and/or unflag an issue or PR as stale/putrid/rotten/frozen	The milestone plugin allows members of a configurable GitHub team to set the milestone on an issue or pull request.	The milestonestatus plugin allows members of the milestone maintainers Github team to specify the 'status/*' label that should apply to a pull request.	The needs-rebase plugin manages the 'needs-rebase' label by removing it from Pull Requests that are mergeable and adding it to those which are not.	The owners-label plugin automatically adds labels to PRs based on the files they touch.
DETAILS	DETAILS	DETAILS	DETAILS	DETAILS	DETAILS	DETAILS
release-note	reopen	require-sig	sigmention	size	skip	slackevents
The releasenote plugin implements a release note process that uses a markdown releasenote code block to associate a release note with a pull request.	Deprecated! Please use the lifecycle plugin instead of reopen.	When a new issue is opened the require-sig plugin adds the "needs-sig" label and leaves a comment requesting that a SIG (Special Interest Group) label be added to the issue.	The sigmention plugin responds to SIG (Special Interest Group) Github team mentions like '@kubernetes/sig-testing-bugs'.	The size plugin manages the 'size/*' labels, maintaining the appropriate label on each pull request as it is updated.	The skip plugin allows users to clean up Github stale commit statuses for non-blocking jobs on a PR.	The slackevents plugin reacts to various Github events by commenting in Slack channels.
DETAILS	DETAILS	DETAILS	DETAILS	DETAILS	DETAILS	DETAILS
		trigger	wip	yuks		

The wip (Work In Progress) plugin applies the 'do-not-merge/work-in-progress' label to pull requests whose title starts with 'WIP' and removes it from pull requests when they remove the title prefix.

DETAILS

The yuks plugin comments with jokes in response to the '/joke' command.

DETAILS

The trigger plugin starts tests in reaction to commands and pull request events.

DETAILS

Commar	nd help for all commands	\$				
	Command	Example	Description	Who Can Use	Plugin	
0	/(approve Igtm) [no-issue cancel]	/approve /approve no-issue /lgtm /lgtm cancel	Approves a pull request	Users listed as 'approvers' in appropriate OWNERS files.	APPROVE	Œ
0	/[un]cc [[@]]	/cc /uncc /cc @k8s-ci-robot	Requests a review from the user(s).	Anyone can use the command, but the target user must be a member of the org that owns the repository.	ASSIGN	Œ
0	/lgtm [cancel]	/lgtm /lgtm cancel	Adds or removes the 'Igtm' label which is typically used to gate merging.	Members of the organization that owns the repository. '/lgtm cancel' can be used additionally by the PR author.	LGTM	Œ
•	/[un]assign [[@]]	/assign /unassign	Assigns an assignee to the PR	Anyone can use the command, but the target user must be a member of the org that owns the	ASSIGN	€

SIG Testing Deep Dive

Friday May 4th, 14:00 - 14:35

The Work

Implement PR workflow (review, test, merge)

Facilitate triage workflow (categorize, route, close)

Configure and run jobs

Provide insights into project health

PR Workflow

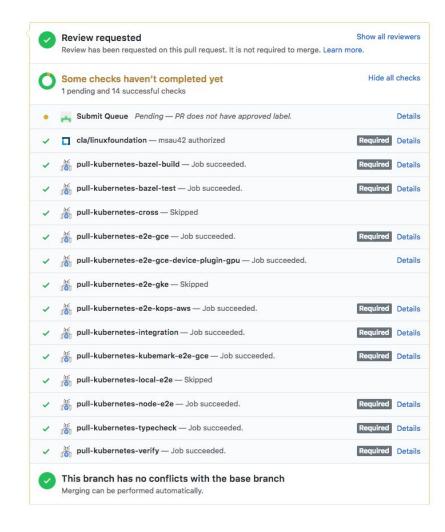
PR author must have signed CLA

PR must pass tests

PR must be approved

PR must be mergeable

Merge commit must pass tests



PR Workflow

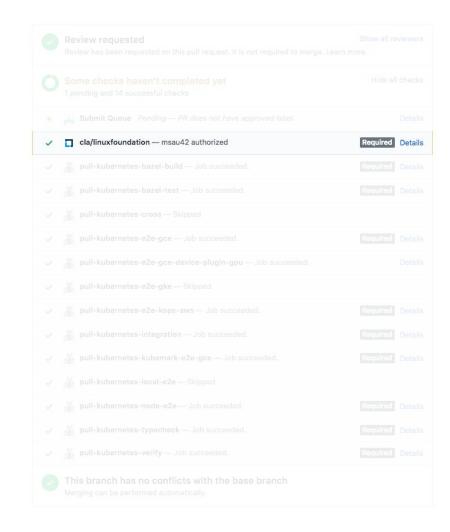
PR author must have signed CLA

PR must pass tests

PR must be approved

PR must be mergeable

Merge commit must pass tests



PR Workflow

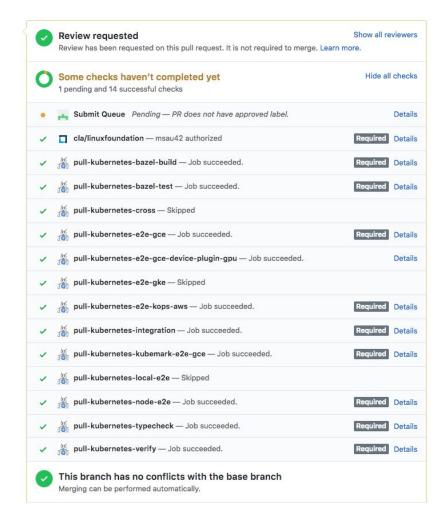
PR author must have signed CLA

PR must pass tests

PR must be approved

PR must be mergeable

Merge commit must pass tests









test all the things?



test all the 4hings? September 2016

•	Submit Queue Github CI tests are not green.	Details
~	Jenkins GCE Node e2e Build finished. 667 tests run, 175 skipped, 1 failed.	Details
~	Jenkins GCE e2e Build finished. 406 tests run, 194 skipped, 0 failed.	Details
1	Jenkins GKE smoke e2e Build succeeded.	Details
1	Jenkins unit/integration Build finished. 3990 tests run, 24 skipped, 0 failed.	Details
/	Jenkins verification Build finished.	Details
1	cla/google All necessary CLAs are signed	



bmit Resul

Batch Build

✓ pull-kubernetes-bazel-build ✓ pull-kubernetes-bazel-test ✓ pull-kubernetes-e2e-gce ✓ pull-kubernetes-e2e-kops-aws ✓ pull-kubernetes-integration ✓ pull-kubernetes-kubernetes-bazel-test ✓ pull-kubernetes-verify

Single Build

✓ pull-kubernetes-bazel-build
 ✓ pull-kubernetes-bazel-test
 ✓ pull-kubernetes-e2e-gce
 ✓ pull-kubernetes-e2e-gce-100-performance
 ✓ pull-kubernetes-e2e-gce-device-plugin-gpu
 ✓ pull-kubernetes-e2e-kops-aws
 ✓ pull-kubernetes-integration
 ✓ pull-kubernetes-kubemark-e2e-gce
 ✓ pull-kubernetes-kubemark-e2e-gce-big
 ✓ pull-kubernetes-node-e2e

End-to-End Results

Non-Queue-Blocking Builds

✓ ci-kubernetes-bazel-build ✓ ci-kubernetes-bazel-build ✓ ci-kubernetes-bazel-test ✓ ci-kubernetes-bazel-test ✓ ci-kubernetes-build ✓ ci-kubernetes-cross-build * ci-kubernetes-e2e-gce-multizone ✓ ci-kubernetes-e2e-gce-taint-evict ✓ ci-kubernetes-e2e-gci-gce ✓ ci-kubernetes-e2e-gci-gce-autoscaling ✓ ci-kubernetes-e2e-gci-gce-autoscaling-migs ✓ ci-kubernetes-e2e-gci-gce-es-logging ✓ ci-kubernetes-e2e-gci-gce-etcd3 ✓ ci-kubernetes-e2e-gci-gce-garbage ✓ ci-kubernetes-e2e-gci-gce-ingress ✓ ci-kubernetes-e2e-gci-gce-proto ✓ ci-kubernetes-e2e-gci-gce-reboot ✓ ci-kubernetes-e2e-gci-gce-scalability * ci-kubernetes-e2e-gci-gce-sd-logging * ci-kubernetes-e2e-gci-gce-serial ✓ ci-kubernetes-e2e-gci-gce-slow ✓ ci-kubernetes-e2e-gci-gce-statefulset * ci-kubernetes-e2e-gci-gke * ci-kubernetes-e2e-gci-gke-alpha-features * ci-kubernetes-e2e-gci-gke-autoscaling * ci-kubernetes-e2e-gci-gke-ingress ★ ci-kubernetes-e2e-gci-gke-multizone ✓ ci-kubernetes-e2e-gci-gke-prod-smoke * ci-kubernetes-e2e-gci-gke-prod ✓ ci-kubernetes-e2e-gci-gke-prod-parallel ✓ ci-kubernetes-e2e-kops-aws * ci-kubernetes-e2e-gci-gke-reboot * ci-kubernetes-e2e-gci-gke-serial * ci-kubernetes-e2e-gci-gke-slow * ci-kubernetes-e2e-gci-gke-updown ✓ ci-kubernetes-e2e-kops-aws-updown * ci-kubernetes-e2e-kops-aws-weave ✓ ci-kubernetes-integration-master ✓ ci-kubernetes-kubemark-5-gce ✓ ci-kubernetes-kubemark-500-gce ✓ ci-kubernetes-node-kubelet * ci-kubernetes-node-kubelet-serial ✓ ci-kubernetes-verify-master

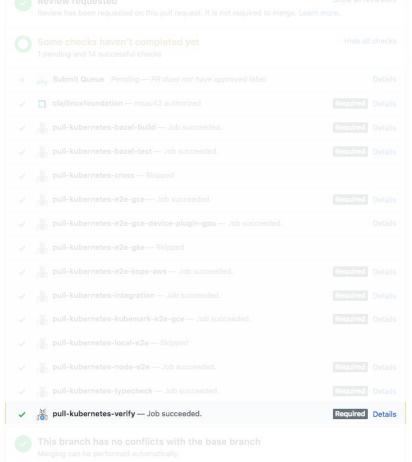


prow



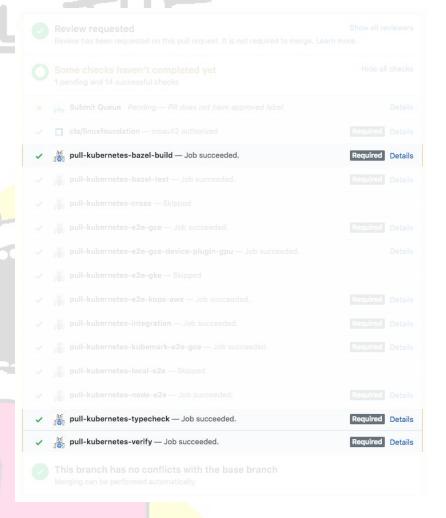


Does it follow coding conventions



Does it follow coding conventions

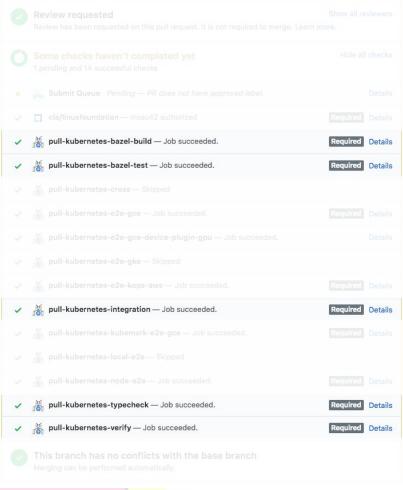
Does it build



Does it follow coding conventions

Does it build

Does it pass unit and integration tests

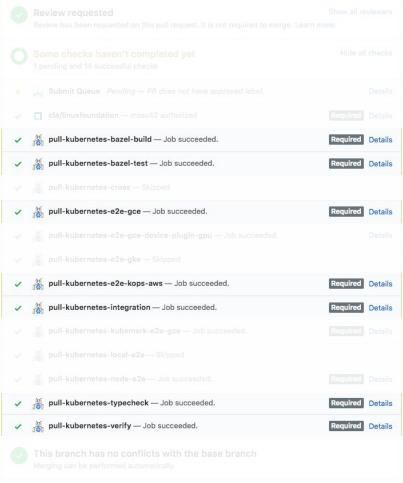


Does it follow coding conventions

Does it build

Does it pass unit and integration tests

Does it pass cluster e2e tests in GCE, AWS



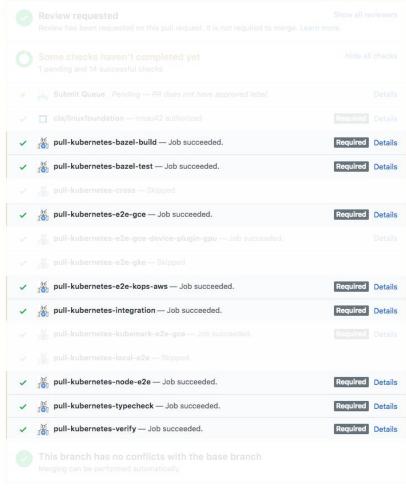
Does it follow coding conventions

Does it build

Does it pass unit and integration tests

Does it pass cluster e2e tests in GCE, AWS

Does it pass node e2e tests



Does it follow coding conventions

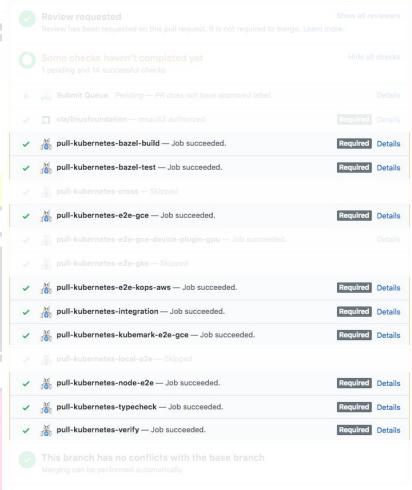
Does it build

Does it pass unit and integration tests

Does it pass cluster e2e tests in GCE, AWS

Does it pass node e2e tests

Does it pass simulated perf tests



Does it follow coding conventions

Does it build

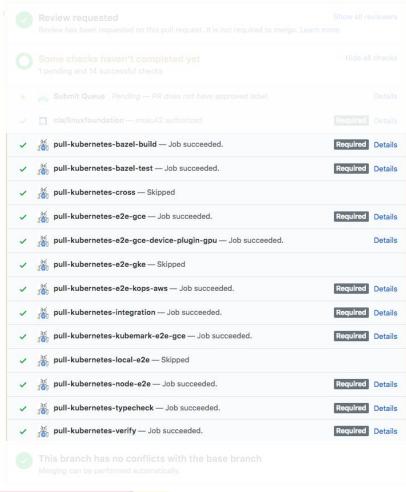
Does it pass unit and integration tests

Does it pass cluster e2e tests in GCE, AWS

Does it pass node e2e tests

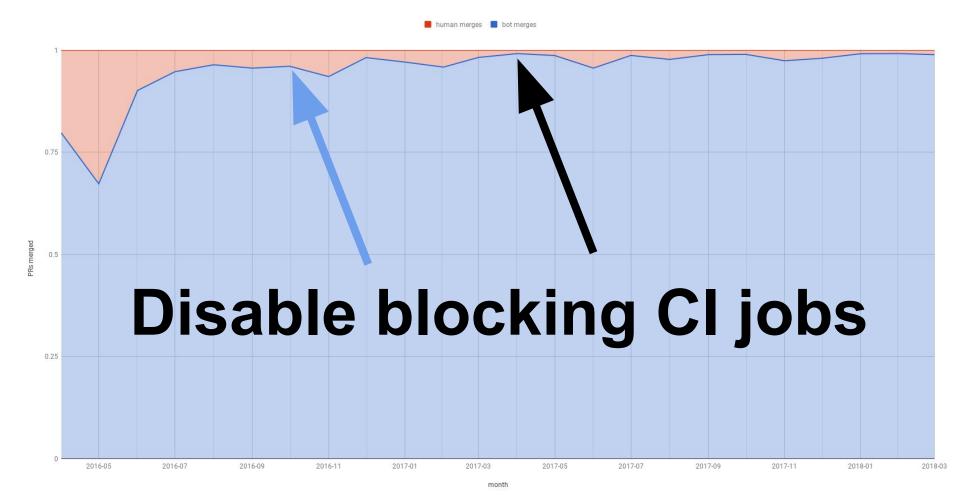
Does it pass simulated perf tests

Optional tests





Source: git log



Source: git log



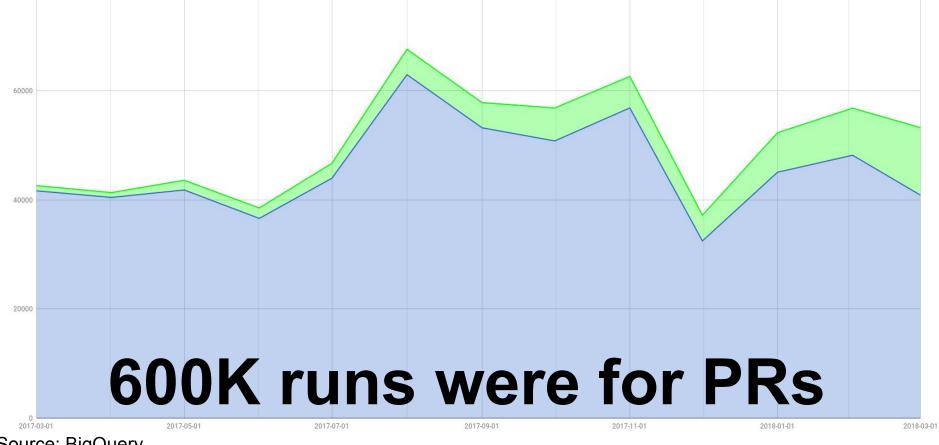


Source: git log

4.3 million job runs

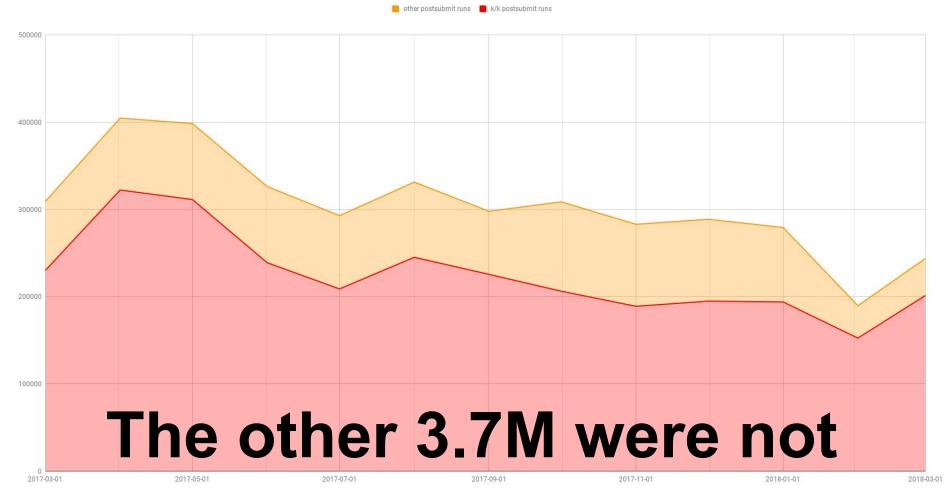
March 2017 - March 2018



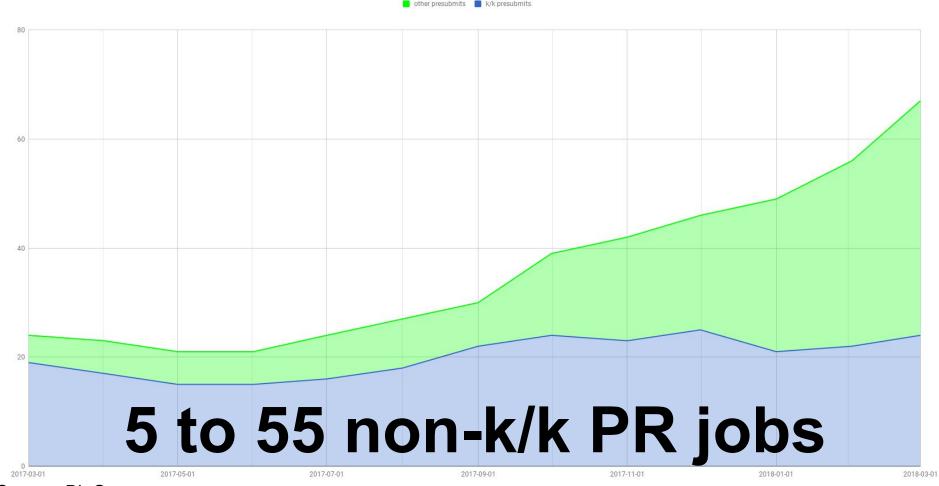


Source: BigQuery

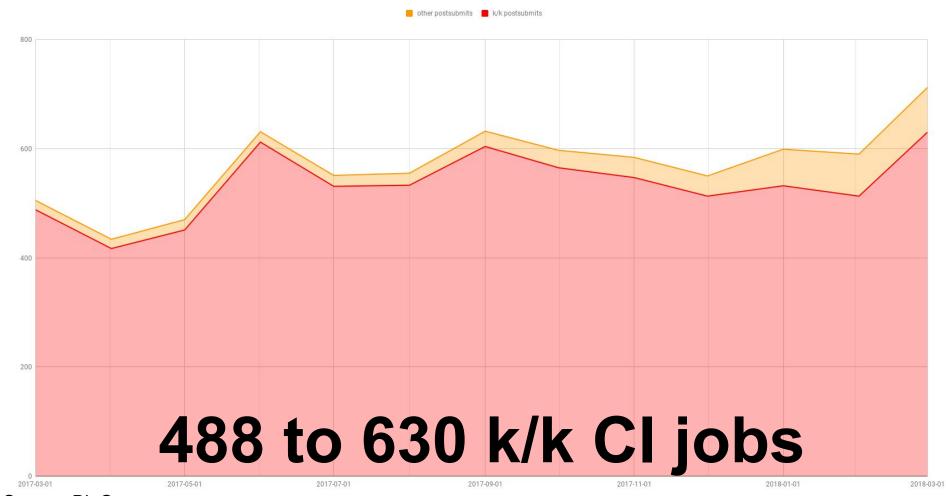
80000



Source: BigQuery



Source: BigQuery



Source: BigQuery

PR Workflow

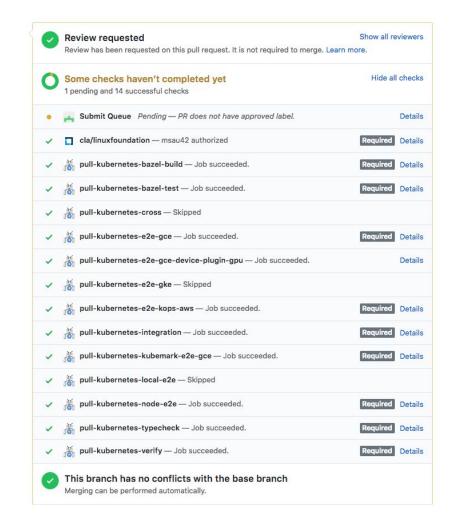
PR author must have signed CLA

PR must pass tests

PR must be approved

PR must be mergeable

Merge commit must pass tests



Code Review

I need someone to review this PR

I need the right person to review this PR

How do I find out who the right person is

How do I notify the right person to review my code

How do I know when the right people have reviewed my code

Code Review - What we tried

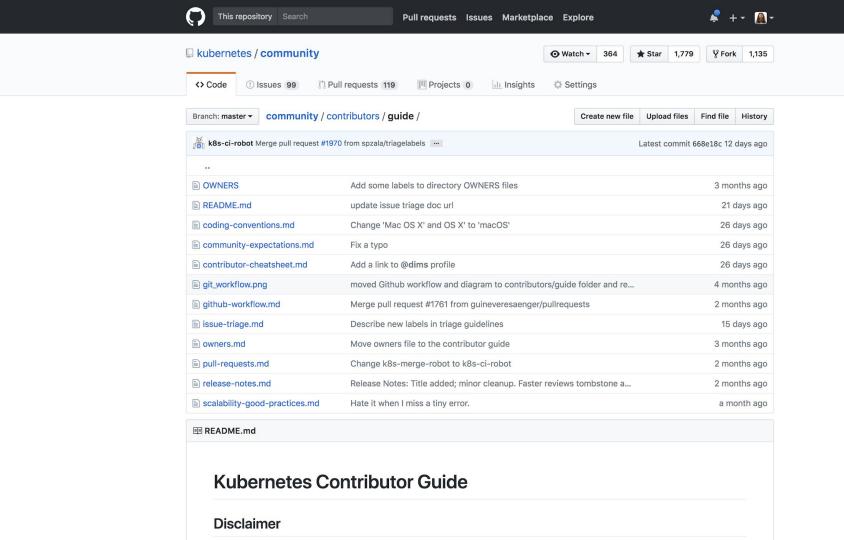
Wait for someone to review

Use GitHub notifications to ask for reviews

Assign PRs to ask for reviews

Use GitHub CODEOWNERS to assign

Only accept reviews from people with repo write access



reviewers:

- castrojo
- guineveresaenger
- idvoretskyi
- tpepper

approvers:

- castrojo
- parispittman

labels:

- sig/contributor-experience
- area/contributor-guide

reviewers:

- castrojo
- guineveresaenger
- idvoretskyi
- tpepper

approvers:

- castrojo
- parispittman

labels:

- sig/contributor-experience
- area/contributor-guide

Qualitive

"is it written well"

reviewers:

- castrojo
- guineveresaenger
- idvoretskyi
- tpepper

approvers:

- castrojo
- parispittman

labels:

- sig/contributor-experience
- area/contributor-guide

Holistic

"is it doing the right thing"

reviewers:

- castrojo
- guineveresaenger
- idvoretskyi
- tpepper

approvers:

- castrojo
- parispittman

labels:

- sig/contributor-experience
- area/contributor-guide

Triage

Code Review - OWNERS

Use OWNERS files in the tree to apply to siblings and children (filtered by regex)

Reviewers and approvers must be org members or collaborators

Request review from those closest to the code, accept from others (/lgtm)

Require approval from those closest to the code (/approve)

https://git.k8s.io/community/contributors/guide/owners.md

https://go.k8s.io/github-labels

Labels



approved

area/platform/gce

cherrypick-candidate

cncf-cla: yes

kind/bug

kind/upgrade-test-failure

lgtm

priority/critical-urgent

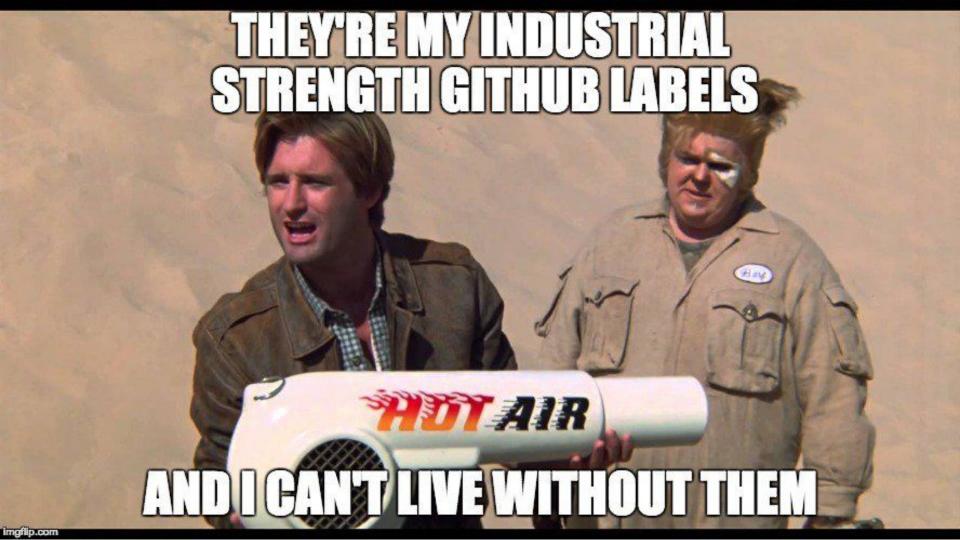
priority/failing-test

release-note-none

sig/cluster-lifecycle

size/S

status/approved-for-milesto...



pick-not-

Labels that apply to only PRs

Name	Description	Added By	Prow Plugin
approved	Indicates a PR has been approved by an approver from all required OWNERS files.	approvers	approve
cherrypick- approved	Indicates a cherrypick PR into a release branch has been approved by the release branch manager. Consumed by the kubernetes/kubernetes cherrypick-queue.	humans	
cherrypick- candidate	Denotes a PR to master as a candidate for cherry picking into a release branch.	humans	
cla: human- approved	REMOVING. This will be deleted after 2018-04-16 00:00:00 +0000 UTC This is a holdover from when we had difficulties getting either the google or cncf CLA bots to behave. It can only be manually applied and is consumed by the submit-queue. It has seen very little use lately.	humans	
cncf-cla: no	Indicates the PR's author has not signed the CNCF CLA according to the CNCF CLA bot.	prow	cla
cncf-cla: yes	Indicates the PR's author has signed the CNCF CLA according to the CNCF CLA bot.	prow	cla
do-not-merge	DEPRECATED. Indicates that a PR should not be merged. The label can only be manually applied/removed. Please use donot-merge/hold instead.	humans	
do-not- merge/blocked- paths	Indicates that a PR should not be merged because it touches files in blocked paths.	prow	blockade
do-not- merge/cherry-	Indicates that a PR should not be merged into a release branch because the cherrypick-approved label is not	mungegithub cherrypick- label-	

These denote merge requirements

Prow approve plugin: /approve -> approved

Prow Igtm plugin: /lgtm -> Igtm

Prow cla plugin: CNCF CLA signed -> cncf-cla: yes

Labels



approved

area/platform/gce

cherrypick-candidate

cncf-cla: yes

kind/bug

kind/upgrade-test-failure

lgtm

priority/critical-urgent

priority/failing-test

release-note-none

sig/cluster-lifecycle

size/S

status/approved-for-milesto...

Labels



GitHub Labels

These are for triage / categorization

Can be auto-applied via OWNERS files

Prow label plugin: /area, /priority, /kind, /sig

Prow size plugin: auto-determine size

area/platform/gce

cherrypick-candidate

cncf-cla: yes

kind/bug

kind/upgrade-test-failure

latm

priority/critical-urgent

priority/failing-test

release-note-none

sig/cluster-lifecycle

size/S

status/approved-for-milesto...

These help the release team track ongoing work

Being deprecated: cherrypick-candidate

Prow release note plugin: release-note-none

Prow status plugin: /status

Labels



approved

area/platform/gce

cherrypick-candidate

cncf-cla: yes

kind/bug

kind/upgrade-test-failure

lgtm

priority/critical-urgent

priority/failing-test

release-note-none

sig/cluster-lifecycle

size/S

status/approved-for-milesto...

```
labels:
  - color: 00ff00
    name: lqtm
  - color: ff0000
    name: priority/P0
   previously:
      - name: P0
  - name: dead-label
    deleteAfter:2017-01-01T13:00:00Z
```

https://git.k8s.io/test-infra/label_sync

is:open

is:pr

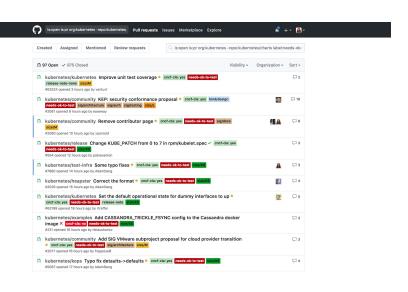
org:kubernetes

-repo:kubernetes/charts

label:needs-ok-to-test







http://not.oktotest.com/

PR Workflow

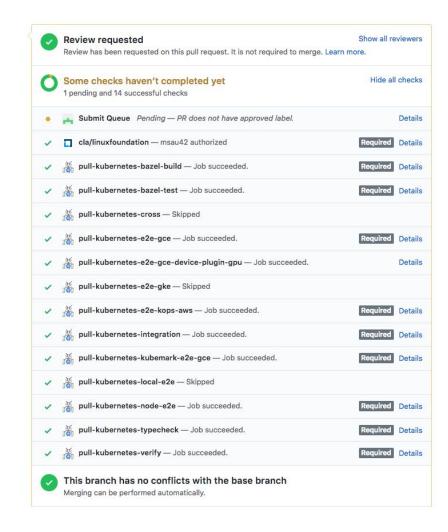
PR author must have signed CLA

PR must pass tests

PR must be approved

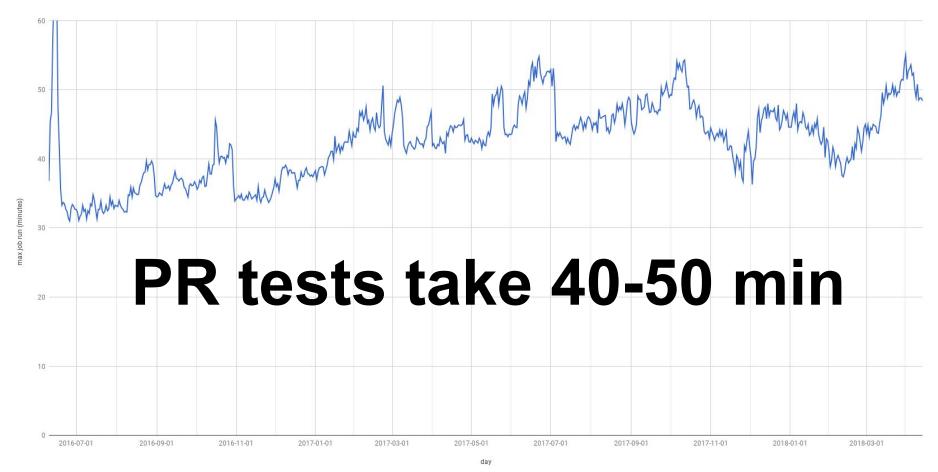
PR must be mergeable

Merge commit must pass tests



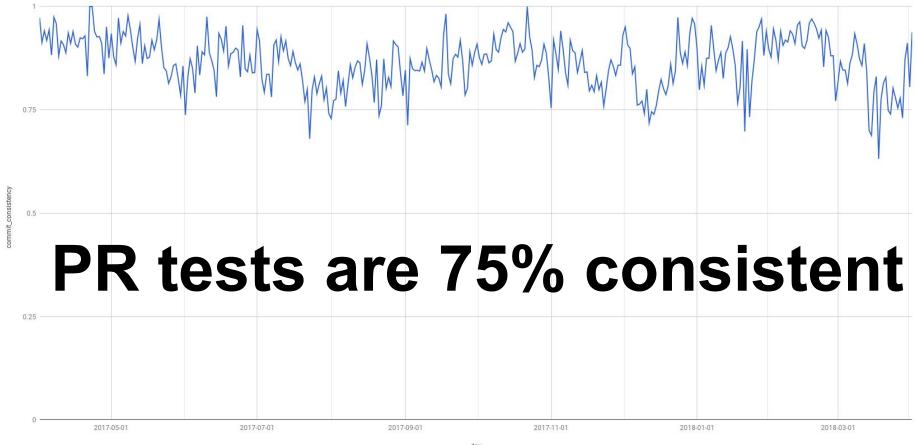
always Merging



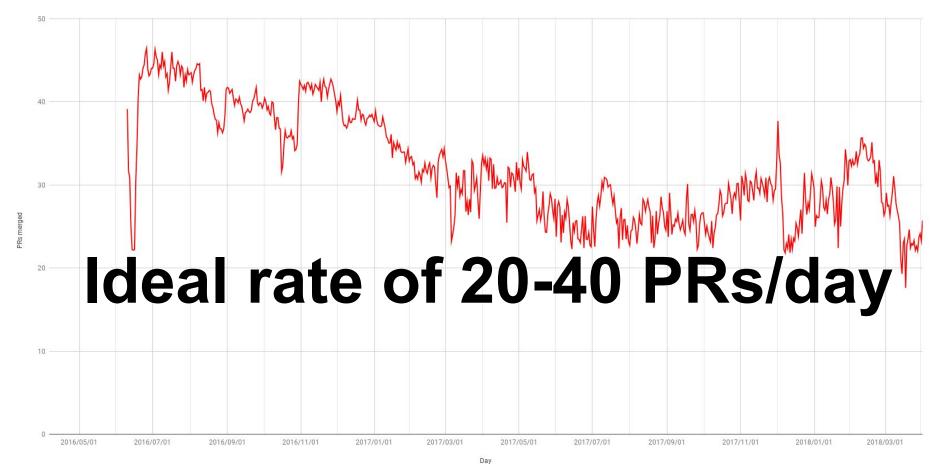


Source: BigQuery k8s-gubernator.build



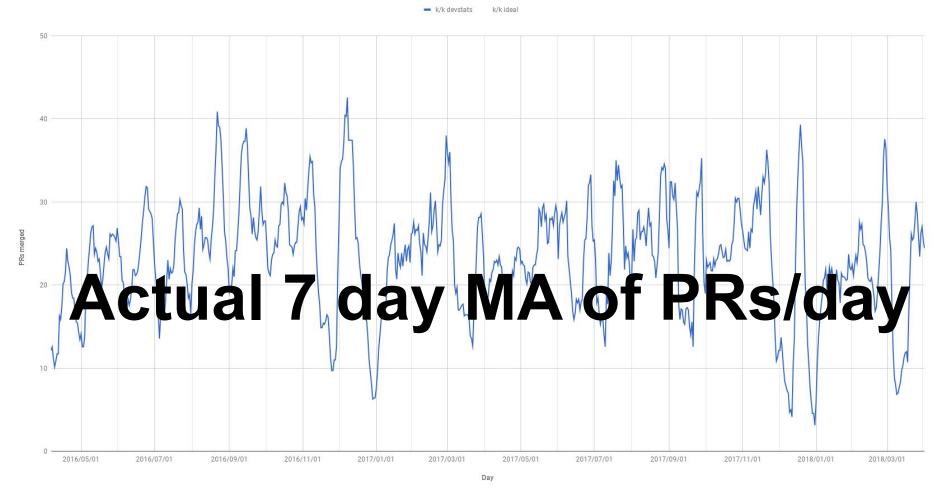




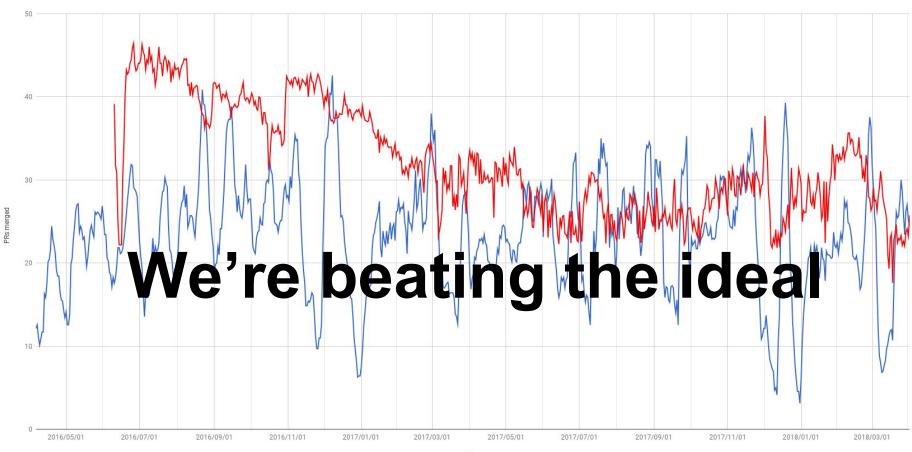


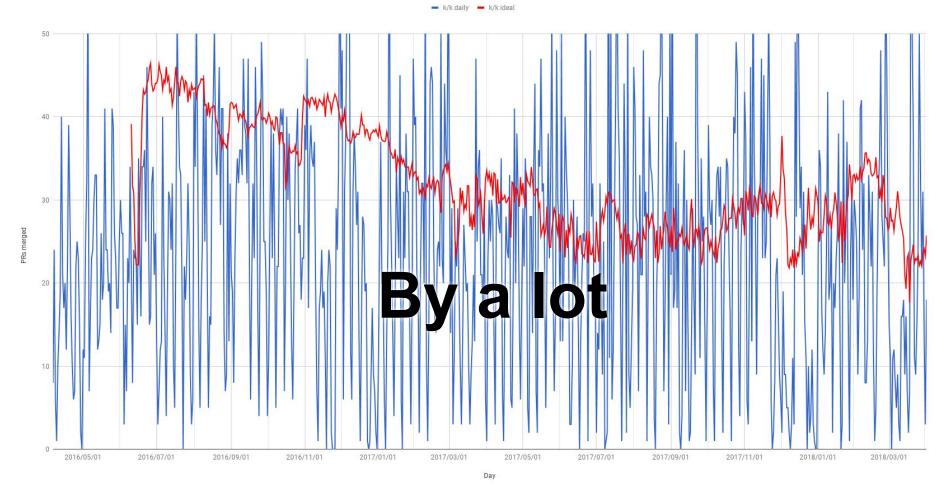
Source: PR rate = P(success) * day / E(duration)

E(duration) = P(success) * pass duration + P(1 - success) * fail duration

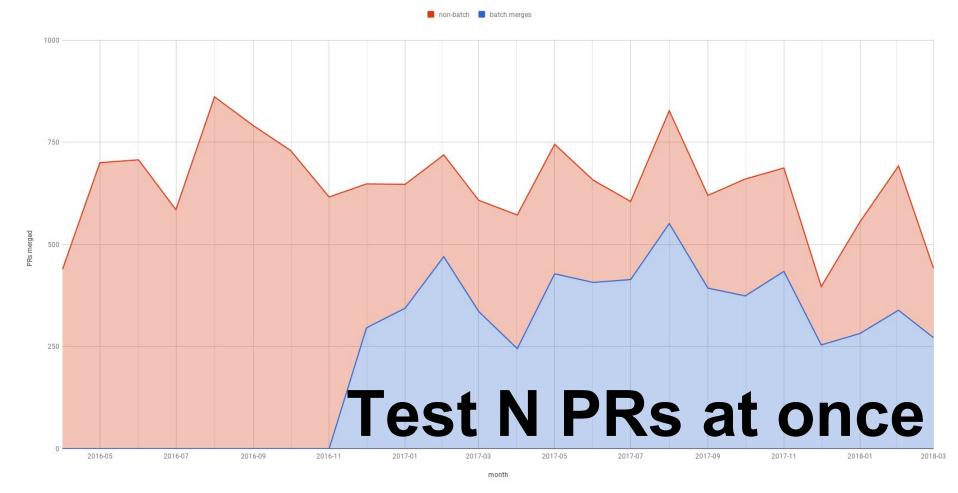


Source: k8s.devstats.cncf.io, PRs merged repos dashboard

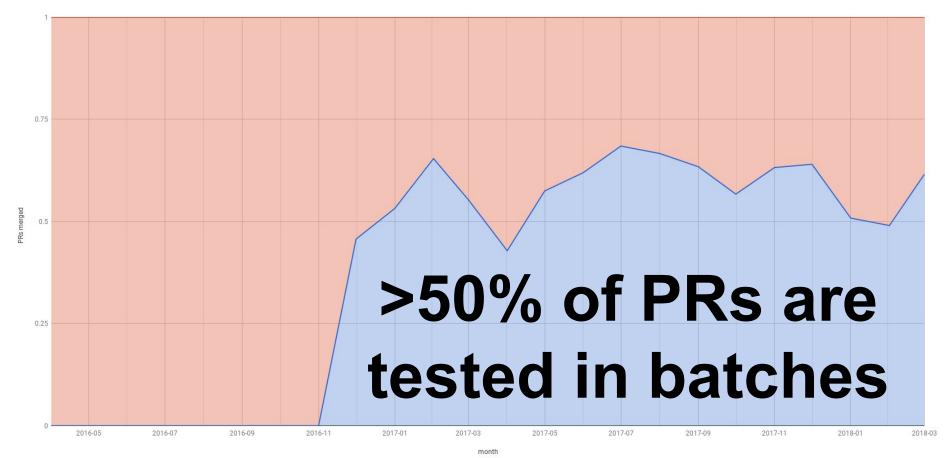


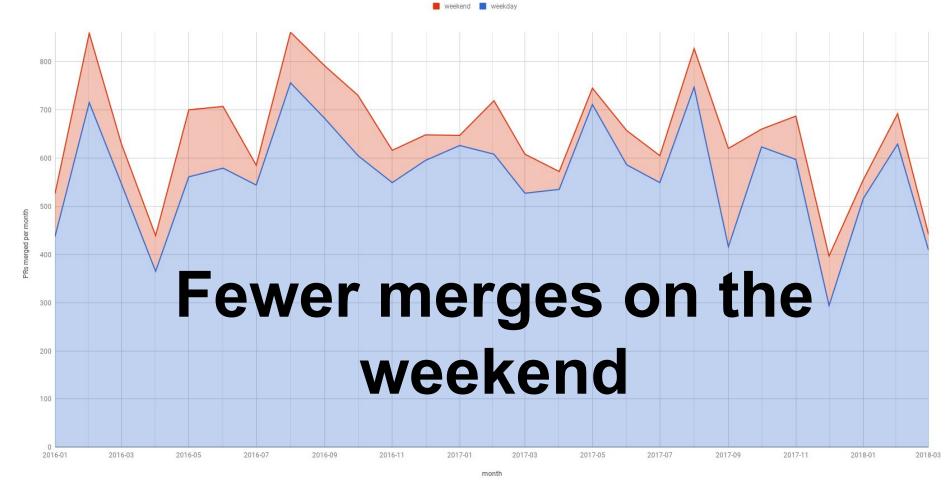


Source: k8s.devstats.cncf.io, PRs merged repos dashboard

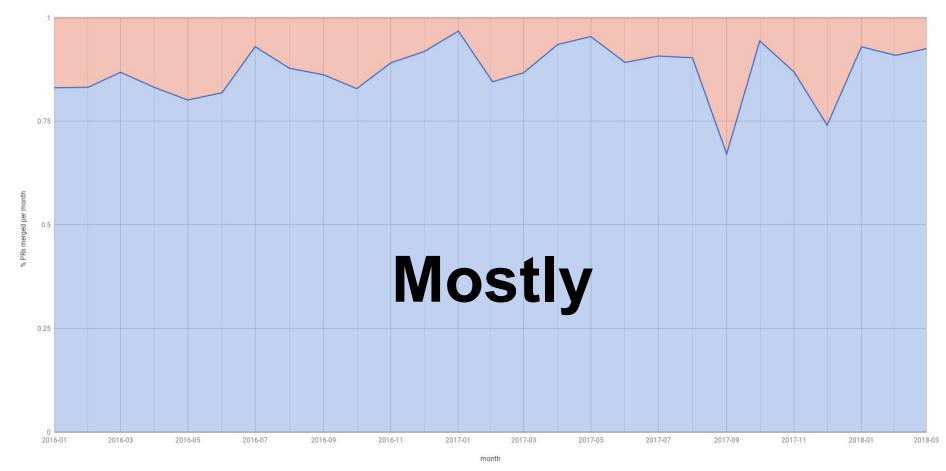












The Work

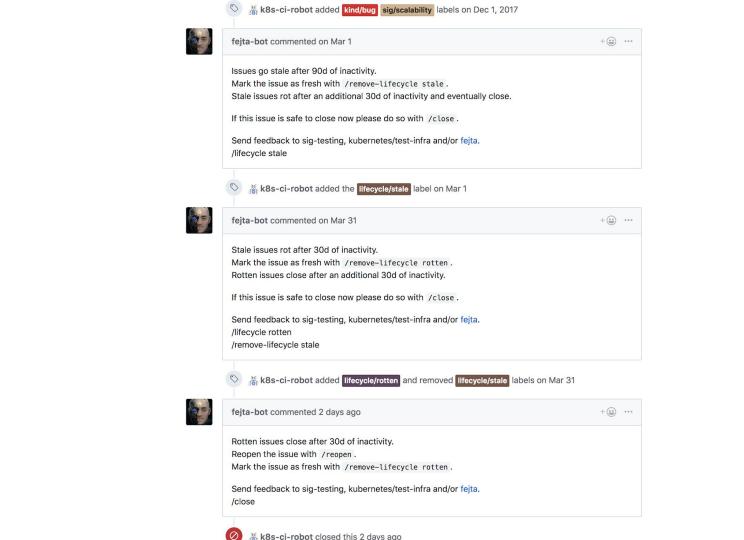
Implement PR workflow (review, test, merge)

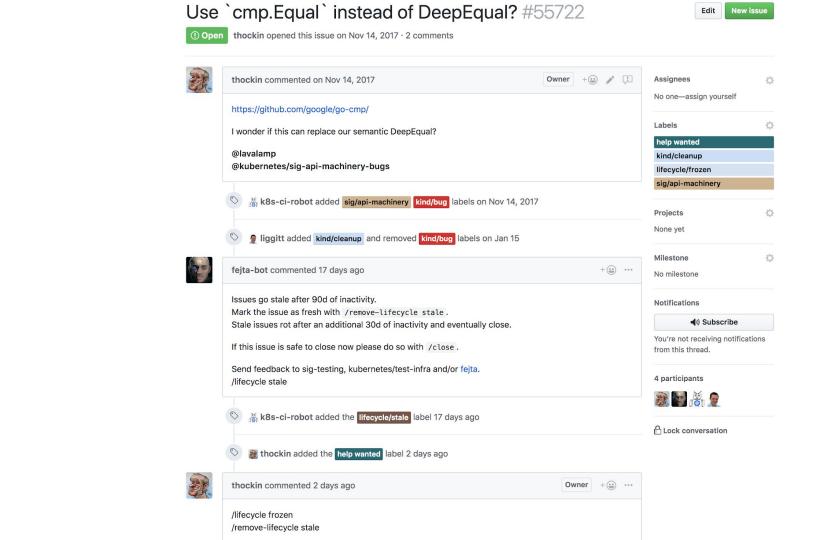
Facilitate triage workflow (categorize, route, close)

Configure and run jobs

Provide insights into project health











```
15689 - name: periodic-test-infra-rotten
15690
         interval: 1h
         agent: kubernetes
         spec:
           containers:
           image: gcr.io/k8s-testimages/commenter:v20170808-abf66782
              args:
15696
             - 1-
               --query=org:kubernetes
               -label:lifecycle/frozen
               label:lifecycle/stale
               -label:lifecycle/rotten
15701
              - --updated=720h
              - --token=/etc/token/bot-github-token
              - |-
15704
               --comment=Stale issues rot after 30d of inactivity.
               Mark the issue as fresh with `/remove-lifecycle rotten`.
15706
               Rotten issues close after an additional 30d of inactivity.
15707
               If this issue is safe to close now please do so with '/close'.
15710
               Send feedback to sig-testing, kubernetes/test-infra and/or [fejta](https://github.com/fejta).
               /lifecycle rotten
               /remove-lifecycle stale
              - --template
              - --ceiling=10
              - --confirm
              volumeMounts:
             - name: token
               mountPath: /etc/token
           volumes:
15720
           - name: token
              secret:
               secretName: fejta-bot-token
       - name: periodic-test-infra-stale
15724
         interval: 1h
         agent: kubernetes
         spec:
           containers:
           - image: gcr.io/k8s-testimages/commenter:v20170808-abf66782
15730
             args:
             - |-
               --query=org:kubernetes
               -lahel:lifecycle/frozen
```



k8s-ci-robot commented 25 days ago • edited ▼

Owner + 🖭 ···

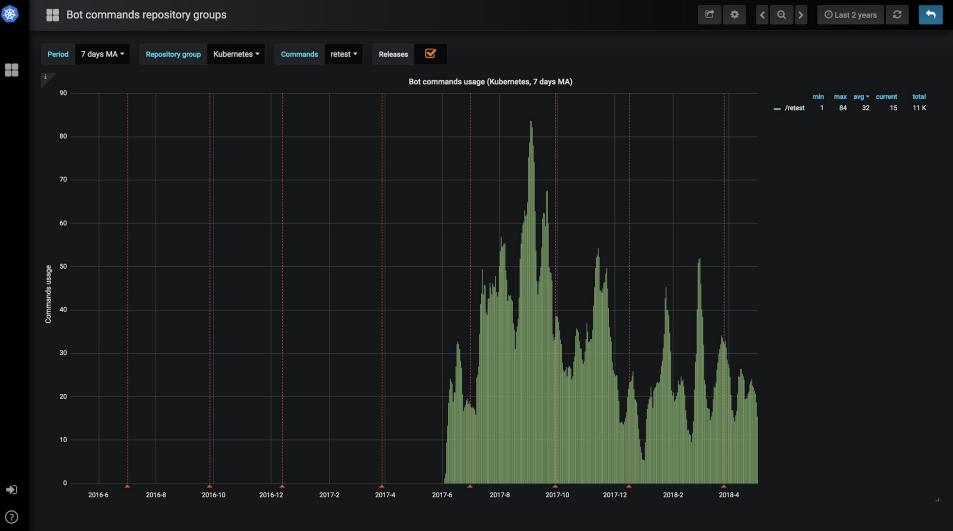
@liggitt: The following test failed, say /retest to rerun them all:

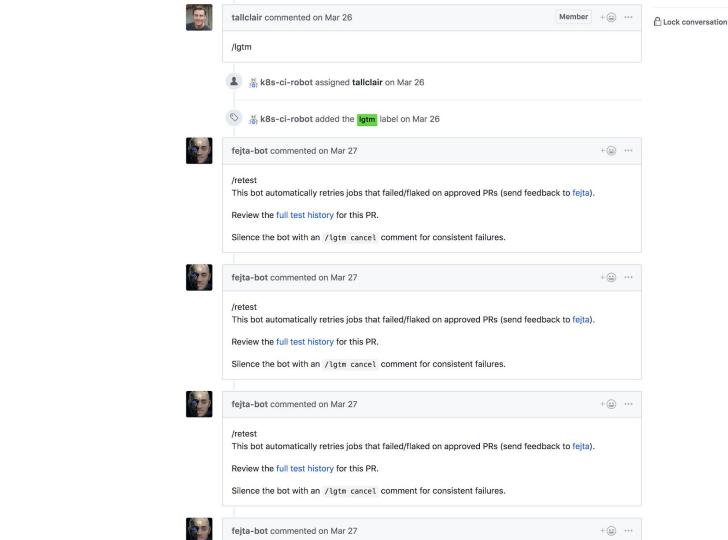
Test name	Commit	Details	Rerun command	
pull-kubernetes-e2e-gce-100- performance	7b5118f	link	/test pull-kubernetes-e2e-gce-	
			100-performance	

Full PR test history. Your PR dashboard. Please help us cut down on flakes by linking to an open issue when you hit one in your PR.



▶ Details





```
- name: periodic-test-infra-retester
          interval: 20m # Retest at most 1 PR per 20m, which should not DOS the queue.
          agent: kubernetes
15650
          spec:
           containers:
           - image: gcr.io/k8s-testimages/commenter:v20170808-abf66782
             args:
             - |-
                --query=is:pr
               -label:do-not-merge
               -label:do-not-merge/blocked-paths
               -label:do-not-merge/cherry-pick-not-approved
               -label:do-not-merge/hold
               -label:do-not-merge/release-note-label-needed
               -label:do-not-merge/work-in-progress
                label: lgtm
               label:approved
                status:failure
                -label:needs-rebase
                -label:needs-ok-to-test
               -label:"cncf-cla: no"
               repo:kubernetes/kubernetes

    --token=/etc/token/bot-github-token

15670
             - 1-
                --comment=/retest
               This bot automatically retries jobs that failed/flaked on approved PRs (send feedback to [fejta](https://github.com/fe
15674
                Review the [full test history](https://k8s-gubernator.appspot.com/pr/{{.Number}}) for this PR.
               Silence the bot with an '/lgtm cancel' comment for consistent failures.
             --template
15679
             - --ceiling=1
             - --confirm
             volumeMounts:
             - name: token
               mountPath: /etc/token
           volumes:
           - name: token
             secret:
                secretName: fejta-bot-token
       - name: periodic-test-infra-rotten
          interval: 1h
```

The Work

Implement PR workflow (review, test, merge)

Facilitate triage workflow (categorize, route, close)

Configure and run jobs

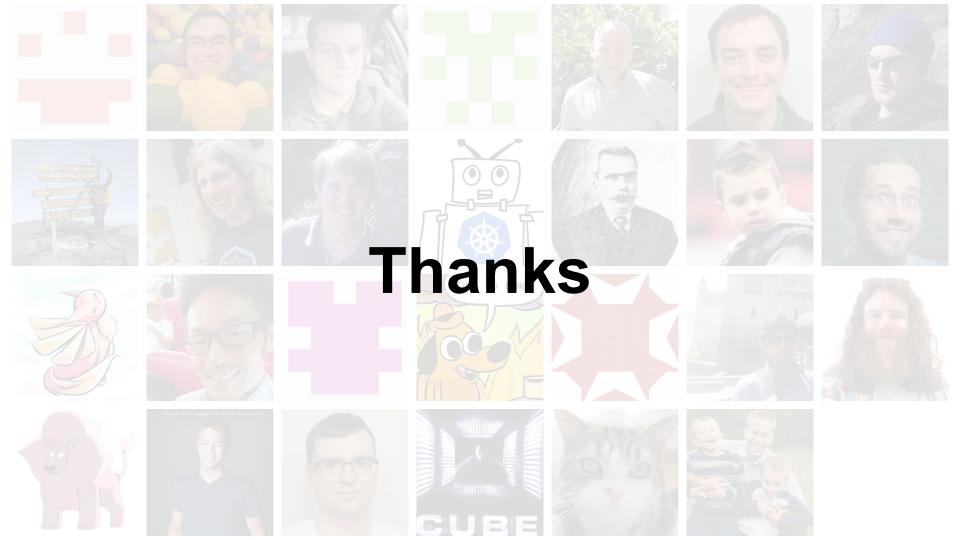
Provide insights into project health



Source: http://gunshowcomic.com/648

SIG Testing Deep Dive

Friday May 4th, 14:00 - 14:35



Used for kubernetes

https://prow.k8s.io

https://prow.k8s.io/pr

https://prow.k8s.io/plugins

https://prow.k8s.io/command-help.html (https://go.k8s.io/bot-commands)

Used for kubernetes

https://go.k8s.io/github-labels

https://go.k8s.io/triage

https://k8s-gubernator.appspot.com/

https://testgrid.k8s.io/

http://velodrome.k8s.io/dashboard/db/bigquery-metrics?orgId=1

Used for CNCF projects

https://k8s.devstats.cncf.io/

https://github.com/cncf/devstats

Use on your own project

https://git.k8s.io/test-infra/prow

- OWNERS-based code review plugins: approve / blunderbuss / lgtm
- Helpful PR plugins: blockade / golint / needs-rebase / hold
- Tide: use labels and retests to merge in batches
- Issue triage plugins: assign / labels / lifecycle / milestone

https://git.k8s.io/test-infra/label_sync

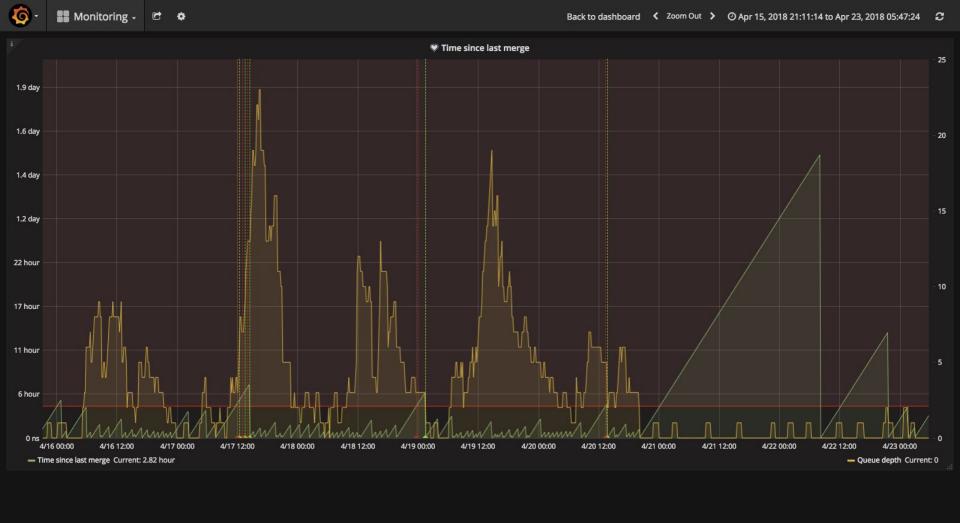
The Work

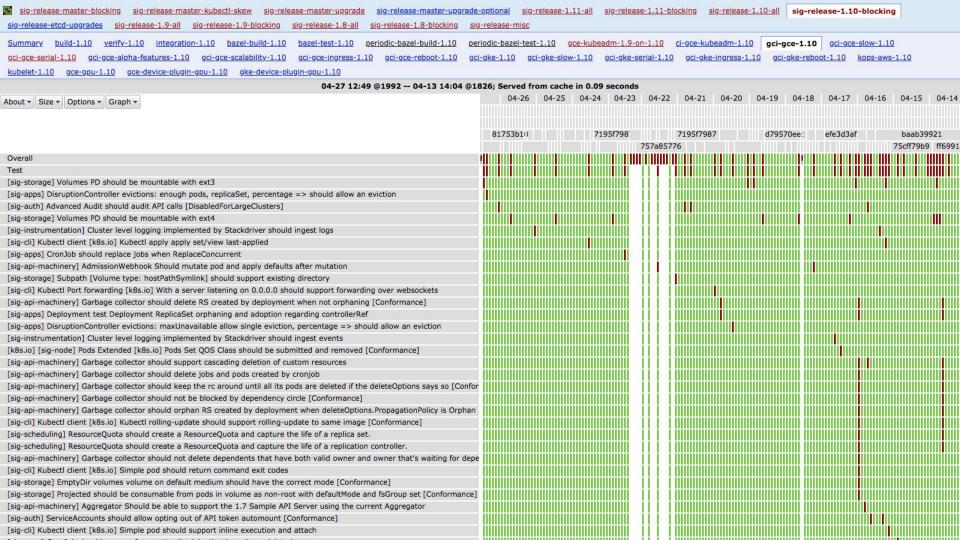
Implement PR workflow (review, test, merge)

Facilitate triage workflow (categorize, route, close)

Configure and run jobs

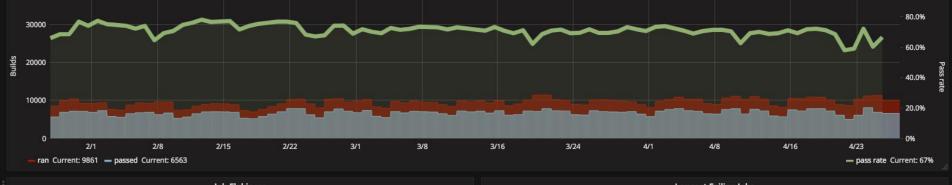
Provide insights into project health

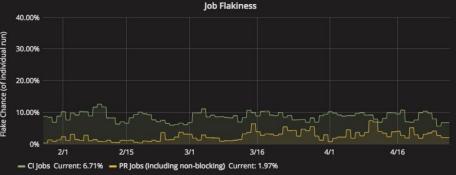




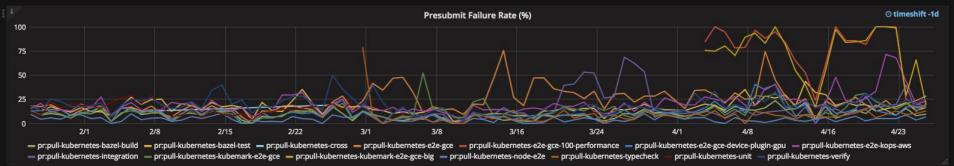
sig-release-master-blocking sig-release-etcd-upgrades sig-rele	sig-release-master-kubectl-skew ase-1.9-all sig-release-1.9-blocking		-release-master-upgrade-optional se-1.8-blocking sig-release-misc	sig-release-1.11-all sig-	release-1.11-blocking	sig-release-1.10-all sig-	release-1.10-blocking
	pazel-build bazel-test verify ku D gce-scale-correctness gce-scale	ibelet gci-gce <mark>gci-gke</mark> aws e-performance gci-gce-ingress	gce-device-plugin-gpu gke-de gci-gke-ingress gci-gce-reboot		<u>e-plugin-gpu-p100</u> m-gce kubeadm-gce		gci-gce-serial gci-gke-serial
<u>build: PASSING</u>3 of 1511 tests (0.2%) and 3 of 1511	runs (0.2%) failing in the past week						Last green run: 24 Tests last ran on: 04-27 12 Last update: 04-27 12
✓ <u>integration: PASSING</u>64 of 46860 tests (0.1%) and 32 of 1	65 runs (19.4%) failing in the past w	eek					Last green run: 1 Tests last ran on: 04-27 17 Last update: 04-27 17
 <u>bazel-build: PASSING</u> 12 of 1614 tests (0.7%) and 12 of 16 	14 runs (0.7%) failing in the past we	ek					Last green run: 238 Tests last ran on: 04-27 17 Last update: 04-27 17
<u>bazel-test: PASSING</u>9 of 1085276 tests (0.0%) and 9 of 1	499 runs (0.6%) failing in the past w	eek					Last green run: 23 Tests last ran on: 04-27 12 Last update: 04-27 12
○ <u>verify: FLAKY</u>40 of 5412 tests (0.7%) and 20 of 16	4 runs (12.2%) failing in the past we	ek					Last green run: 20 Tests last ran on: 04-27 12 Last update: 04-27 12
<u>o kubelet: FLAKY</u>97 of 123004 tests (0.1%) and 33 of	161 runs (20.5%) failing in the past v	veek					Last green run: 12 Tests last ran on: 04-27 12 Last update: 04-27 12
<u>gci-gce: FLAKY</u>231 of 129015 tests (0.2%) and 109	of 305 runs (35.7%) failing in the pas	t week					Last green run: 24 Tests last ran on: 04-27 12 Last update: 04-27 12
▲ gci-gke: FAILING 358 of 2440 tests (14.7%) and 138 of	f 305 runs (45.2%) failing in the past	week					Last green run: 25 Tests last ran on: 04-27 1 Last update: 04-27 1
Test Name	# Fails	Failure Messages	First Failed		Last Passed	Bugs	Regression
Overall	73		04-25 14:11	04-25 13:41			
Up	73		04-25 14:11	04-25 13:41			
aws: PASSING 172 of 117530 tests (0.1%) and 85 of 117530 tests (0.1%) and 85 of 117530 tests (0.1%).	f 322 runs (26.4%) failing in the past	week					Last green run: 27 Tests last ran on: 04-27 12 Last update: 04-27 12
✓ gce-device-plugin-gpu: PASSING 24 of 1660 tests (1.4%) and 16 of 83	runs (19.3%) failing in the past weel	,					Last green run: 3 Tests last ran on: 04-27 10 Last update: 04-27 12
▲ gke-device-plugin-gpu: FAILING 97 of 664 tests (14.6%) and 37 of 83	runs (44.6%) failing in the past weel						Last green run: 2 Tests last ran on: 04-27 10 Last update: 04-27 12
Test Name	# Fails	Failure Messa	iges F	irst Failed	Last Passed	Bugs	Regression
Overall	2		04-25 16:27		5 14:27	90	Changes
Deferred TearDown	2		04-25 16:27		5 14:27		Changes
Up	2	2	04-25 16:27	04-2	5 14:27		Changes
▲ gke-device-plugin-gpu-p100: FAIL							Last green run: Tests last ran on: 04-27 0
20 of 294 tests (6.8%) and 8 of 14 ru	ins (57.1%) failing in the past week		1				Last update: 04-27 12





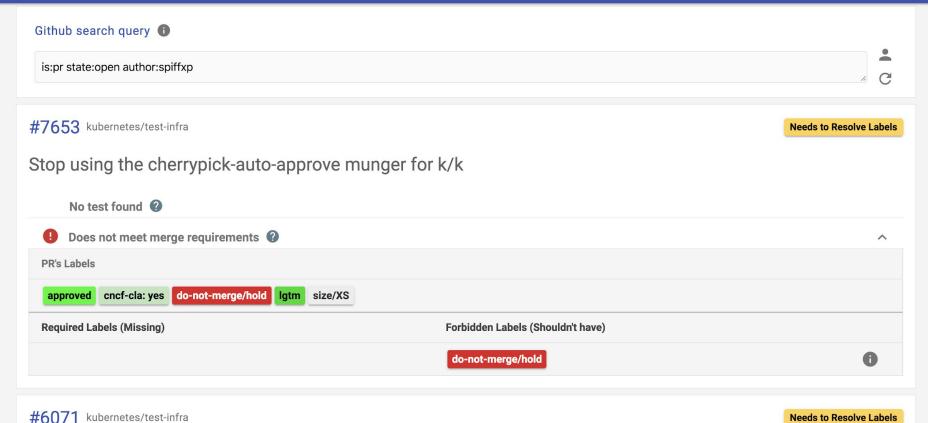












Remove some unused mungers

kubernetes/test-infra

Automation

- boskos
- bootstrap
- jenkins
- jobs
- kubetest
- mungegithub
- prow
- scenarios

Visualization

- gcsweb
- gubernator
- kettle
- metrics
- testgrid
- triage
- velodrome

Other

- commenter
- issue-creator
- label_sync
- logexporter
- migratestatus
- planter
- queue_health