



Kubernetes

Upstream Training

※本資料は、Kubernetes Contributor Summit San Diego 2019のNew Contributor Workshopの資料をベースに構成を
変更したものです。

その前に



TODO

- 事前課題として以下のページを参照いただくよう連絡があったと思います。
実施されてない人は以下を参照して実施しておいてください。
 - <https://github.com/kubernetes-sigs/contributor-playground/blob/master/japan/assets/attendee-prerequisites.md>
- Kubernetes Slackの以下に参加しておいてください。
 - #jp-mentoring チャンネル
 - #jp-dev チャンネル
- kubernetes-sigs/contributor-playground リポジトリの Fork & Clone
 - あなたのGitHubアカウントで Fork しておいてください。
 - Fork したリポジトリを使用する PC に Clone しておいてください。

はじめに



Welcome on board!

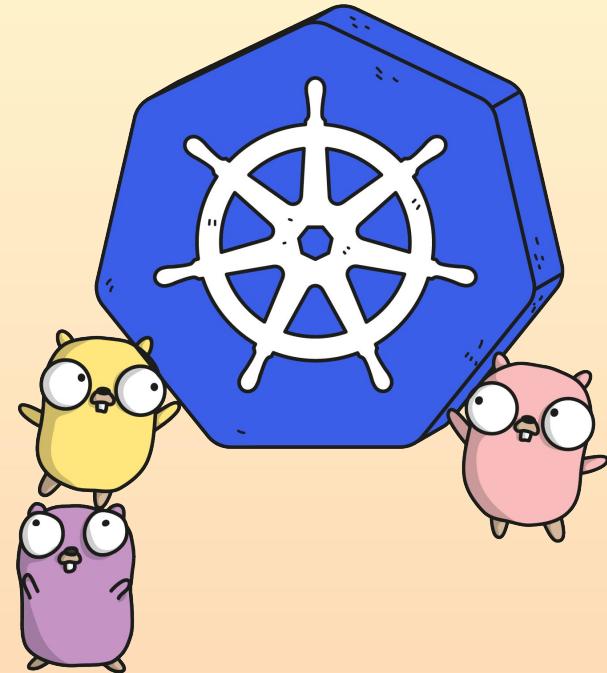


kubernetes CONTRIBUTOR SUMMIT
SAN DIEGO 2019

Schedule

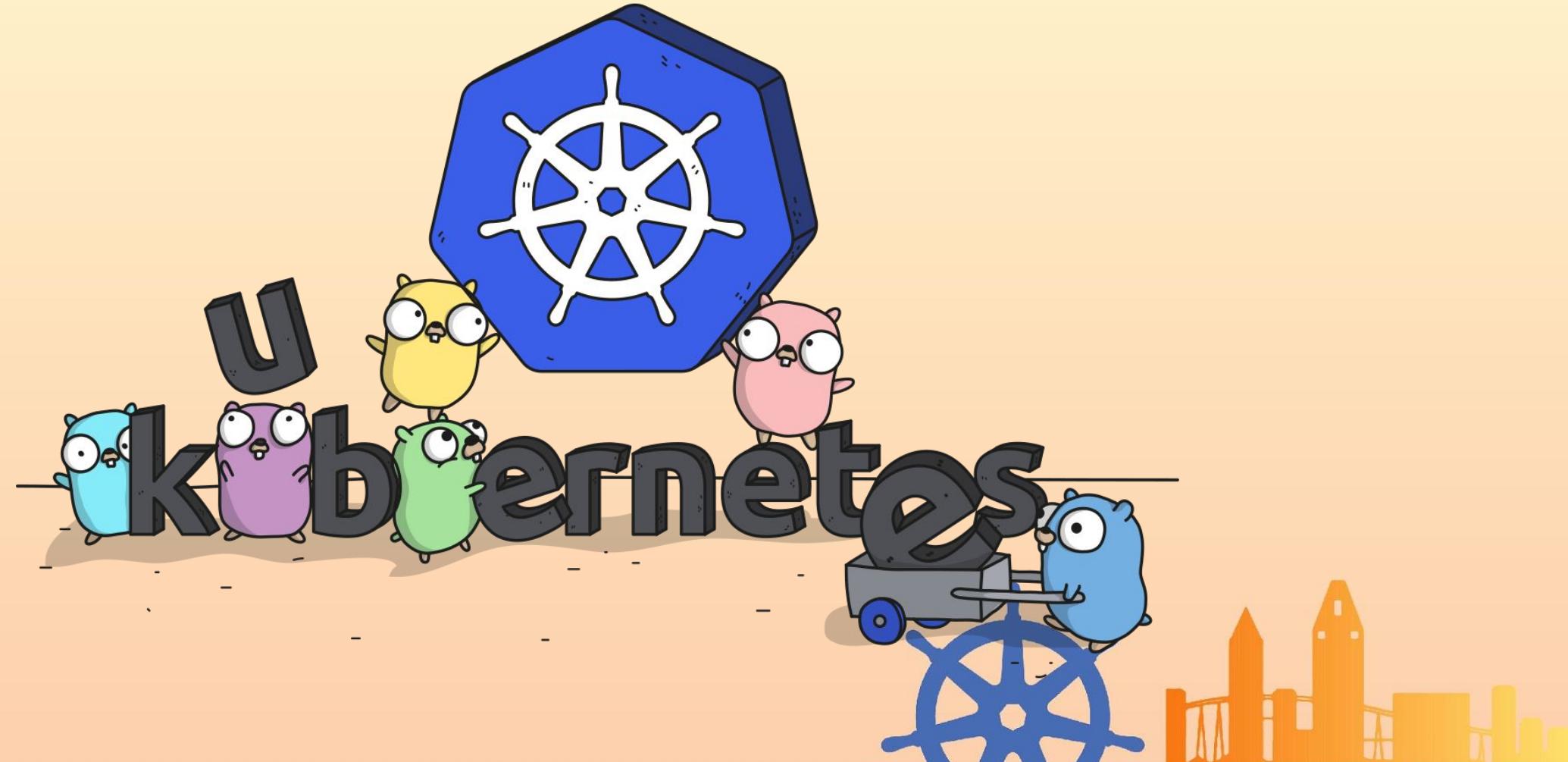
- Kubernetes コミュニティ (30min)
 - Break (5min)
- コントリビューション実践 (25min)
- コミュニケーション (20min)
 - Break (5min)
- ハンズオン (70min)
 - Break (5min)
- Kubernetes 開発環境 (40min)
- Q&A (5min)
- クロージング (5min)

Total: 3h30m



Credit Ashley McNamara and github.com/ashleymcnamara/gophers for Kubernetes Gophers image.
Credit Renee French for the original gopher concept and design.

Who can contribute to Kubernetes?



Credit Ashley McNamara and github.com/ashleymcnamara/gophers for Kubernetes Gophers image.
Credit Renee French for the original gopher concept and design.

Why contribute to Kubernetes?



The Kubernetes Contributor Patch

\$1,000⁰⁰

Quantity

-	1	+
---	---	---

Add to Cart

This is an exclusive item only recognized contributors can earn. You must be awarded a purchase code to get this badge of honor.

<https://store.cncf.io/products/copy-of-kubernetes-decal>

Fitting Contributions Into Your Job





Kubernetes コミュニティ

Community Values

Distribution is better than centralization

Automation over process

Community over product or company

Inclusive is better than exclusive

Evolution is better than stagnation

"Culture eats strategy for breakfast."
-- Peter Drucker

コミュニティ構成

Community Group Types

Special Interest Groups (SIGs)

Persistent open groups that focus on a part of the project.

SIG has the subproject(s)

Working Groups (WGs)

Temporary groups that are formed to address issues that cross SIG boundaries.

User Groups (UGs)

Groups for facilitating communication and discovery of information

Committees

Sets of people that are chartered to take on sensitive topics.



Special Interest Group

Kubernetes is a big project

Many contributors([75,000+](#))
in one pool would be too
noisy

A SIG is a sub-community;
these are you K8s people



Special Interest Group

Charter:

- Code ownership
 - Scope/area
 - Binaries
- Governing processes
- Subprojects
- Working Groups

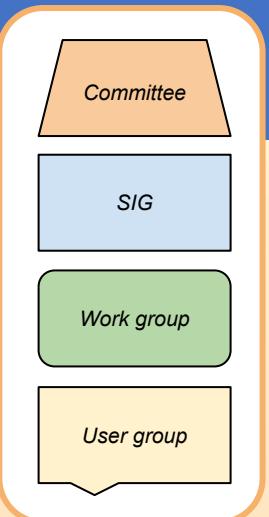
Mailing List:

- Communications with SIG members

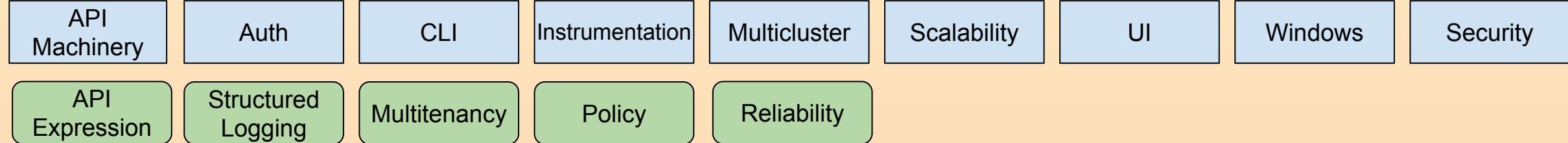


Community Groups Overview

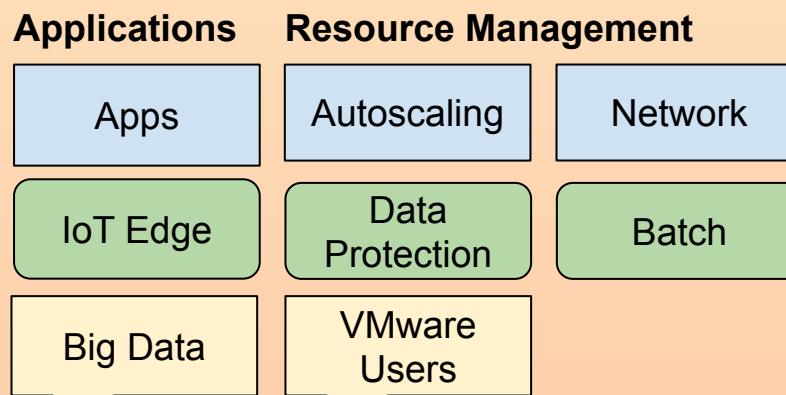
Project



Horizontal



Vertical



Project SIGs

- sig-architecture
- sig-contributor-experience
- sig-docs
- sig-release
- sig-testing
- sig-usability
- sig-k8s-infra

Horizontal SIGs

- sig-api-machinery
- sig-auth
- sig-cli
- sig-instrumentation
- sig-multicloud
- sig-scalability
- sig-ui
- sig-windows
- sig-security

Vertical SIGs: Applications

- Applications
 - sig-apps
- Infrastructure
 - sig-cloud-provider
 - sig-cluster-lifecycle
- ResourceManagement
 - sig-autoscaling
 - sig-network
 - sig-node
 - sig-scheduling
 - sig-storage

Project Working Groups

- ~~wg-naming~~

-> 2021/10 解散。ミッションはsig-architecture
へマージ。



Horizontal Working Groups

- wg-api-expression
- wg-multitenancy
- wg-policy
- wg-reliability
- wg-structured-logging



Vertical Working Groups

- wg-iot-edge
- wg-data-protection
- wg-batch

git.k8s.io/community/governance.md#working-groups



Picking the right community group

Find a specific project/area
to work on

Picking the right community group

Find out which SIG (or working group) owns your topic

- a. Look on the [SIG list](#) to find SIG info and charters
- b. Ask on #sig-contribex
- c. Attend the SIG Meet-and-Greet at conference
- d. Go to the SIG intros at conference(KubeCon+CloudNativeCon)
 - Slide:
 - Search with “Intro” at [Here](#), and click session.
 - Download a slide from session page

How Do I Join A Community Group?

1. Join the specific mailing list.
(This is open to anyone.)
2. That's it! You've joined!
You will get a calendar invite to the meeting.



Repositories



Core Repository

[kubernetes/kubernetes](https://github.com/kubernetes/kubernetes)

Most SIGs are stakeholders in the monolith.

Areas of SIG ownership can be found in

<https://git.k8s.io/community/sigs.yaml>

My repository, my rules

Repos can have different:

- Ownership
- Approval workflows
- Merge workflows
- Release cycles

Engaging Community

SIGs, Areas, Issues: Engaging

Community Contributions

- Filing Issues
- Answering Questions on StackOverflow
- Github Repo Management
- Blogging, Evangelism, and Promotion
- Event Management and Volunteering
- Visual Communication
- User Experience Feedback and Surveys
- Helping Manage Youtube Recordings
- ...and more!

Mentoring Opportunities

- Meet-Our-Contributors
- Group Mentoring
- Release Team Shadow
- 1-on-1 ad-hoc mentoring
- GSOC/Outreachy/KubeCon Speed Mentoring

Kubernetes Tutorials

- As an operator
- As an app developer
- As a kubernetes developer

<https://kubernetes.io/docs/tutorials/>

SIGs, Areas, Issues: Engaging

at KubeCon!

- Sessions
- SIG Intros
- SIG Deep Dives
- Hallway Track

KubeCon Videos

- 2019
 - [NorthAmerica 2019 videos](#)
- 2020
 - [Europe 2020 Virtual videos](#)
 - [NorthAmerica 2020 Virtual videos](#)
- 2021
 - [Europe 2021 Virtual videos](#)
 - [NorthAmerica 2021 videos](#)
- 2022
 - [Europe 2022 videos](#)
 - [NorthAmerica 2022 videos](#)
- Please check up [CNCF on Youtube](#)



kubernetes

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SIGs, Areas, Issues: Engaging

Governance reference

<https://git.k8s.io/community/governance.md>

Project Group List

<https://git.k8s.io/community/sig-list.md>

Mentoring Links

<https://git.k8s.io/community/mentoring/>

Technical Help and Tutorials

<https://git.k8s.io/community/events/office-hours.md>

<https://kubernetes.io/docs/tutorials/>

Contributor Guide

<https://git.k8s.io/community/contributors/guide/README.md>

Developer Guide

<https://git.k8s.io/community/contributors/devel/README.md>





Break - 5 minutes



コントリビューション実践

Open Source Interactions

Open Source Interactions

me
implementation
centralized
implicit
assumptions



Photo by John Schnobrich on [Unsplash](#)

Open Source Interactions

me
~~implementation~~
~~centralized~~
~~implicit~~
~~assumptions~~

we
collaboration
decentralized
explicit
shared theories

Open Source Interactions

functionality
code



Open Source Interactions

functionality
code

docs
tests
integrations
releases
security

Open Source Interactions

HUMAN / SOCIAL:



functionality
code
docs
tests
integrations
releases
security



Photo by You X Ventures on [Unsplash](#)

Open Source Interactions

Be good people!

Mutual respect is a prerequisite for healthy collaboration.

git.k8s.io/community/code-of-conduct.md

<https://github.com/cncf/foundation/blob/master/code-of-conduct-languages/jp.md>

Open Source Interactions

Goal: Get a change into project



Photo by Alexander Muzenhardt on [Unsplash](#)

Open Source Interactions

Goal: Get a change into project

Path:

- Visibility, transparency, proactive communication
- Code, plus documentation, plus test cases
- Presence in meetings, Slack, mailing list
- Reviewable code

Open Source Interactions

Reviewable code:

- demonstrates sound *IDEA*...through words
- demonstrates reasonably architected solution...through words
- polished implementation
 - coding style
 - quality standards
 - <https://chris.beams.io/posts/git-commit/>

Open Source Interactions

Reviewable code:

- demonstrates sound *IDEA*...through words
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- polished implementation
 - coding style
 - quality standards
 - <https://chris.beams.io/posts/git-commit/>

Make the reviewer's job easy:

- commit subject line **summarizes** in “Do foo for bar”
- commit body details **what & why**

Open Source Interactions

Timing:

- expect things you **CARE** about to take time
- quality vs. speed
- decentralized consensus forming
- conversations wrap the globe
- is it code freeze right now or merge time?

Open source is fast in aggregate, but:

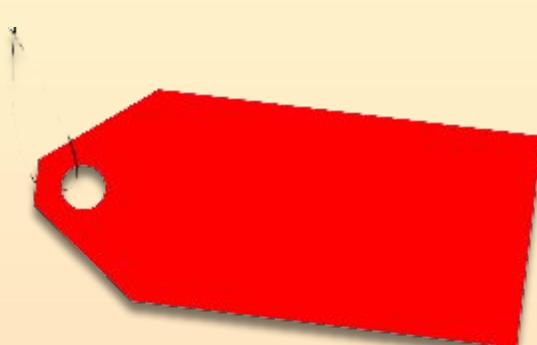
- **idea** → months → alpha → 1+ release → beta → 1+ release → stable
- ...9-24 months

Open Source Interactions

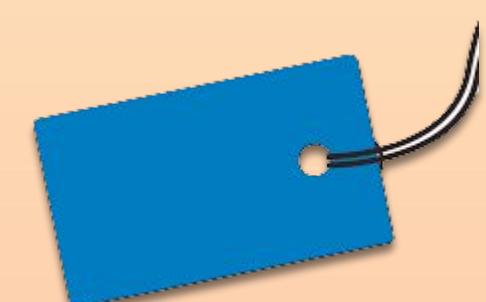


Labels

SIGs, Labels, Issues: Overview



How to talk to the Kubernetes
community and automation



 k8s-ci-robot commented 14 days ago

Owner + 

Thanks for your pull request. Before we can look at your pull request, you'll need to sign a Contributor License Agreement (CLA).

 Please follow instructions at <https://git.k8s.io/community/CLA.md#the-contributor-license-agreement> to sign the CLA.

It may take a couple minutes for the CLA signature to be fully registered; after that, please reply here with a new comment and we'll verify. Thanks.

- If you've already signed a CLA, it's possible we don't have your GitHub username or you're using a different email address. Check your existing CLA data and verify that your [email is set on your git commits](#).
- If you signed the CLA as a corporation, please sign in with your organization's credentials at <https://identity.linuxfoundation.org/projects/cncf> to be authorized.
- If you have done the above and are still having issues with the CLA being reported as unsigned, please email the CNCF helpdesk: helpdesk@rt.linuxfoundation.org

► Details

 k8s-ci-robot added the **cncf-cla: no** label 14 days ago

 k8s-ci-robot requested review from **idvoretskyi** and **tpepper** 14 days ago

 k8s-ci-robot added the **needs-ok-to-test** label 14 days ago

guineveresaenger

Labels

approved
area/contributor-guide
cncf-cla: no
lgtm
needs-rebase
sig/contributor-experience
size/XS

Projects

None yet

Milestone

No milestone

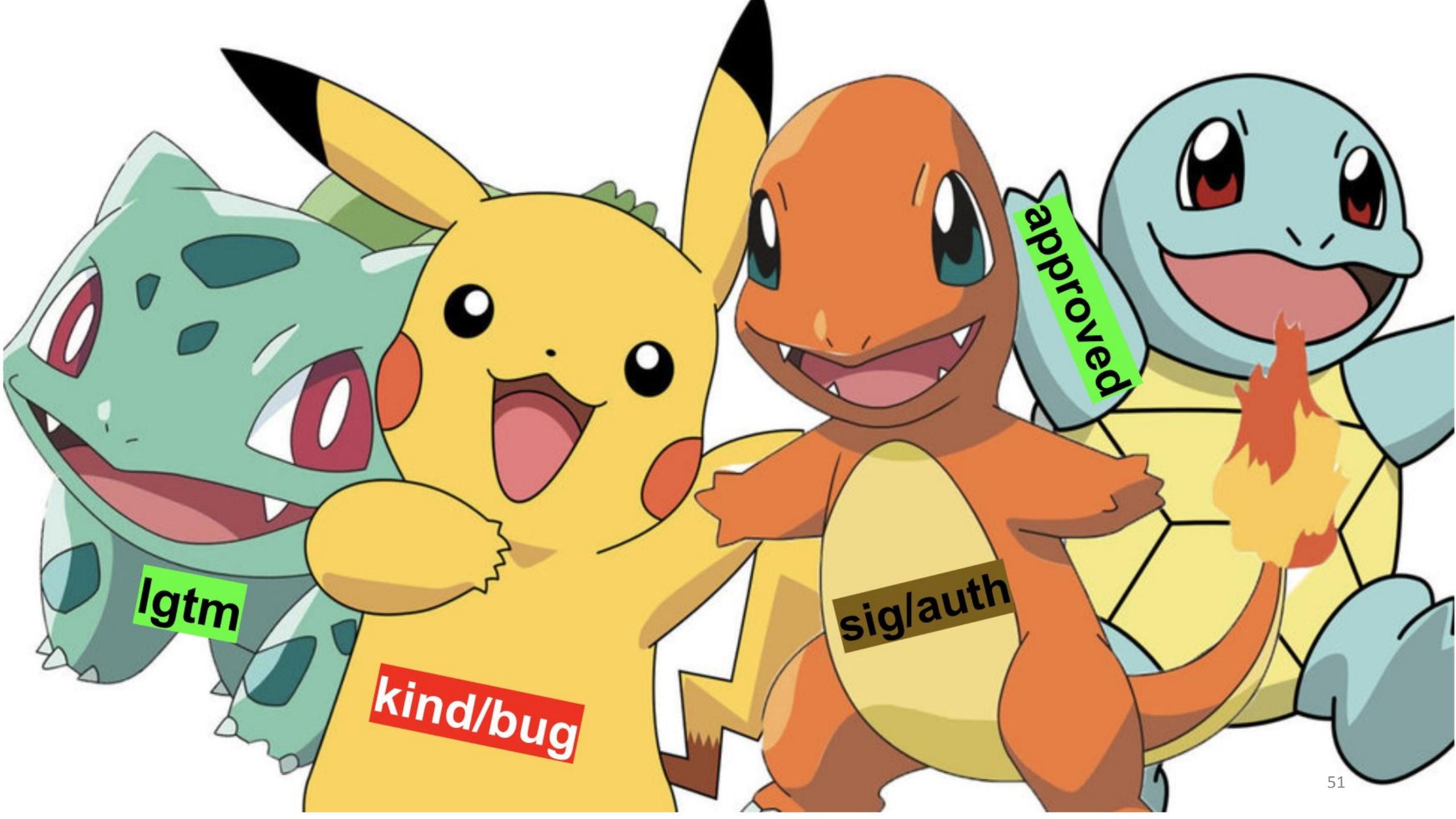
Notifications

 [Unsubscribe](#)

You're receiving notifications because you were mentioned.

7 participants

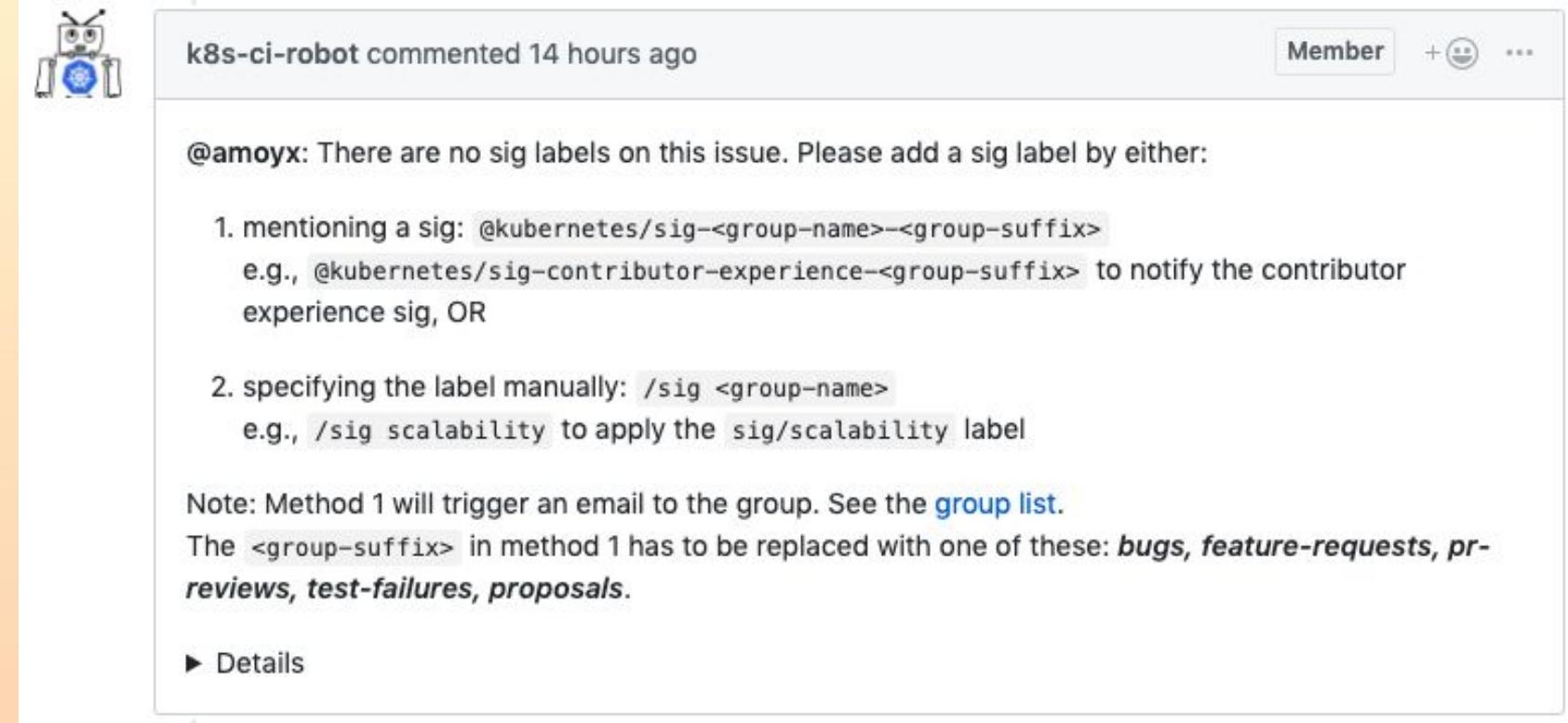




Required Labels for Issues

On creation:

sig/
kind/



A screenshot of a GitHub issue comment. The comment is from a user named "k8s-ci-robot" and was posted 14 hours ago. The comment text is as follows:

@amoyx: There are no sig labels on this issue. Please add a sig label by either:

- mentioning a sig: @kubernetes/sig-<group-name>-<group-suffix>
e.g., @kubernetes/sig-contributor-experience-<group-suffix> to notify the contributor experience sig, OR
- specifying the label manually: /sig <group-name>
e.g., /sig scalability to apply the sig/scalability label

Note: Method 1 will trigger an email to the group. See the [group list](#).
The <group-suffix> in method 1 has to be replaced with one of these: *bugs, feature-requests, pr-reviews, test-failures, proposals*.

▶ Details

<https://prow.k8s.io/command-help>

The SIG Label

Label

sig/auth

sig/testing

sig/api-machinery

sig/node

Bot command

/sig auth

/sig testing

/sig api-machinery

/sig node

Adding a label



The Kind Label

kind/bug

kind/feature

kind/documentation

kind/design

kind/failing-test

kind/flake

kind/cleanup

Example bot command: /kind feature

The Area Label

area/kubectl

area/api

area/dns

area/platform/gce

Often, the area label is
the name of a SIG
subproject.

The Priority Label

priority/critical-urgent

priority/important-soon

priority/important-longterm

priority/backlog

priority/awaiting-evidence

Example bot command: /priority critical-urgent

The Triage Label

triage/duplicate

triage/needs-information

triage/support

triage/unreproduceable

triage/unresolved

はじめての コントリビューション

Find an Issue



kubernetes / kubernetes

Watch 3.1k Star 59.9k Fork 21.1k

Code

Issues 2,245

Pull requests 1,108

Actions

Projects 9

Security

Insights

Filters

is:open label:"help wanted" label:"good first"

Labels 187

Milestones 9

New issue

Clear current search query, filters, and sorts

16 Open 32 Closed

Author ▾

Labels ▾

Projects ▾

Milestones ▾

Assignee ▾

Sort ▾

! Port parsing can overflow (TOB-K8S-015: Overflows when using strconv.Atoi and downcasting the result) area/security good first issue help wanted kind/bug priority/important-soon sig/cli sig/network wg/security-audit
#81121 opened on Aug 7 by cji



19

! Add unit tests for Scheduler framework good first issue help wanted kind/feature sig/scheduling
#80272 opened on Jul 17 by liu-cong



11

! Different Webhook with same name have same label-value in metric webhook_admission_duration_seconds good first issue help wanted kind/bug lifecycle/rotten sig/api-machinery sig/instrumentation
#79832 opened on Jul 5 by answer1991



12

! Support UDP with AWS NLB area/provider/aws good first issue help wanted kind/feature sig/cloud-provider
#79523 opened on Jun 28 by kirmann v1.17

29

! Connect lower level traces to surrounding request handling trace good first issue help wanted kind/feature sig/api-machinery
#79209 opened on Jun 19 by jpbetz

16

- good first issue
- help wanted

<https://github.com/kubernetes/kubernetes/issues?utf8=%E2%9C%93&q=is%3Aopen+label%3A%22good+first+issue%22+label%3A%22help+wanted%22>

Help Wanted: First PR Ideas

- Search for **good first issue** & **help wanted** issues
- Search by SIG & Area labels to match your interest
- Discuss at tables ideas for contributing

...carry this discussion into the SIG Meet & Greet

コードだけではないコントリビューション

- Issue登録
 - バグ報告／機能要望
- ドキュメントの修正

<https://kubernetes.io/docs/home/>

<https://github.com/kubernetes/website>

- ドキュメントバグ
- 実装に沿った最新化
- 日本語訳の貢献
 - kubernetes.io の英語ドキュメントの和訳
 - Kubernetes Dashboard の和訳

PR 投稿

Do Not Boil The Ocean

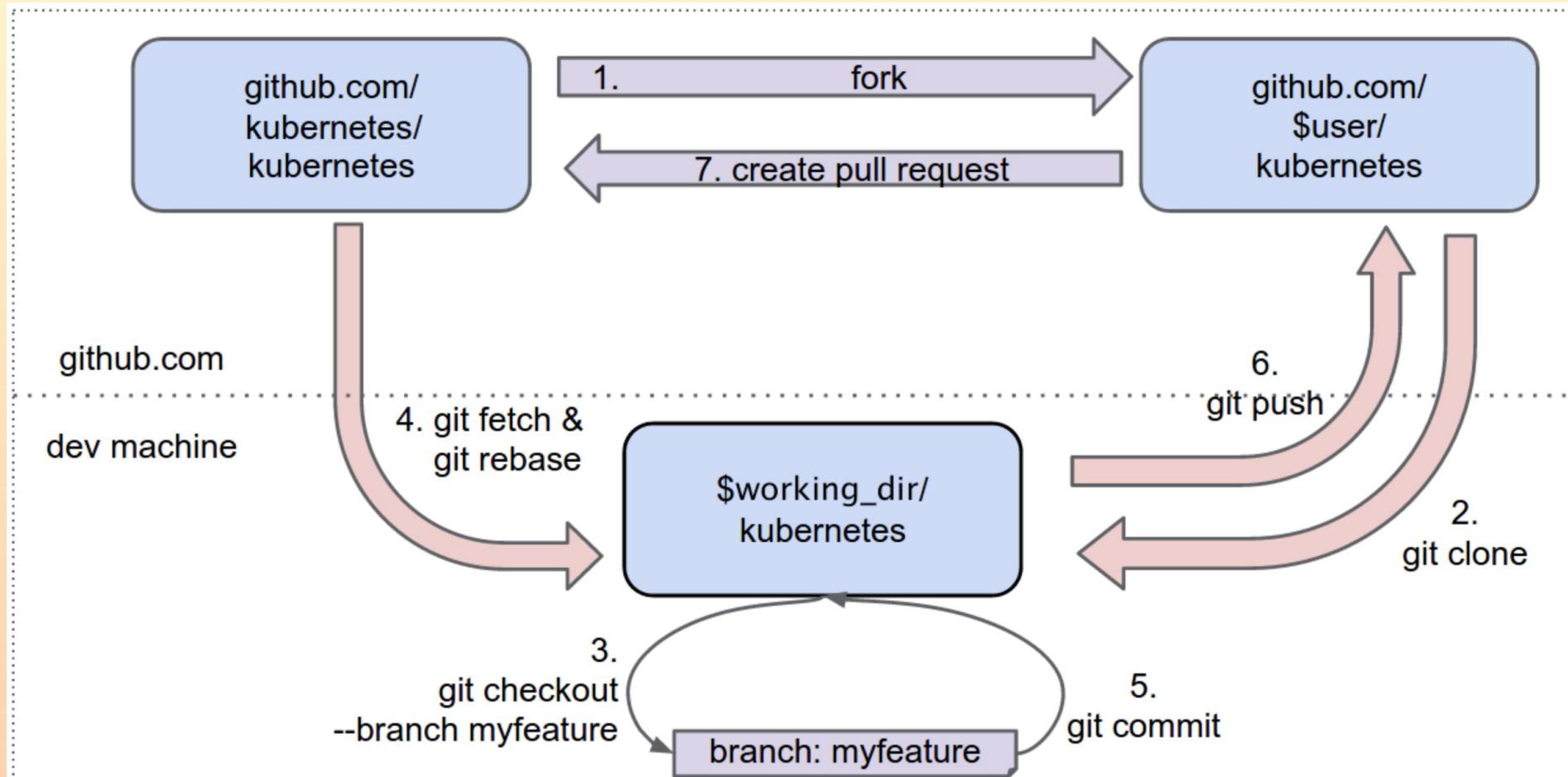


Smaller is
better

Write good
commit
messages



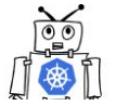
PRs and Bots: GitHub PR Flow



PR Workflow on GitHub

1. You submit Pull Request (PR) using the template
2. You add labels & notes
3. Bots validate and comment on the PR
`release-note` `cncf-cla: no` `needs-ok-to-test` `needs-kind` `needs-sig`
4. You add more labels & notes & resolve review comments
5. SIGs & OWNERS review and /approve → **approved**
6. Other contributors /lgtm → **lgtm**
7. Tests pass
8. *Tide* merges the PR

PRs and Bots: Reviewers/Approvers



k8s-ci-robot commented 7 minutes ago

Member + ...

[APPROVALNOTIFIER] This PR is NOT APPROVED

This pull-request has been approved by: [ksubrmnn](#)

To fully approve this pull request, please assign additional approvers.

We suggest the following additional approver: [rosti](#)

If they are not already assigned, you can assign the PR to them by writing `/assign @rosti` in a comment when ready.

The full list of commands accepted by this bot can be found [here](#).

The pull request process is described [here](#)

▼ Details

Needs approval from an approver in each of these files:

- [cmd/kubeadm/OWNERS](#)

Approvers can indicate their approval by writing `/approve` in a comment

Approvers can cancel approval by writing `/approve cancel` in a comment

レビューアの自動アサイン



kubernetes

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Bot Commands



<https://prow.k8s.io/command-help>

PRs and Bots: Useful Commands

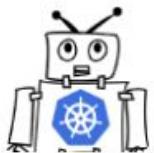
Command

/assign @username
/retest
/close
/cc @username

Result

Assigns a Reviewer
Reruns failed tests
Closes PR
Tags a user

Watch Tests



k8s-ci-robot commented 2 minutes ago

Member



...

@ksubrmnn: The following tests failed, say `/retest` to rerun them all:

Test name	Commit	Details	Rerun command
pull-kubernetes-e2e-gce	0a1251a	link	<code>/test pull-kubernetes-e2e-gce</code>
pull-kubernetes-e2e-gce-device-plugin-gpu	0a1251a	link	<code>/test pull-kubernetes-e2e-gce-device-plugin-gpu</code>

[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

PRs and Bots: Following Up

Answer questions
Resolve:
Bot messages
Code comments
Test failures



Contributor Ladder

Contributor Ladder

Owner

Set priorities and approve proposals for subproject
Responsibility and leadership for entire repository/directory

Approver

Approve contributions for acceptance
Highly experienced reviewer and contributor in subproject

Reviewer

History of reviewing; reviews frequently
Authorship in subproject

Member

Active contributor to the project
Sponsored by two Reviewers

Non-member Contributors



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Contributor Ladder

<http://git.k8s.io/community/community-membership.md>

Role	Responsibilities	Requirements	Defined by
member	active contributor in the community	sponsored by 2 reviewers. multiple contributions to the project.	Kubernetes GitHub org member.
reviewer	review contributions from other members	history of review and authorship in a subproject	OWNERS file reviewer entry.
approver	approve accepting contributions	highly experienced and active reviewer + contributor to a subproject	OWNERS file approver entry
subproject owner	set direction and priorities for a subproject	demonstrated responsibility and excellent technical judgement for the subproject	sigs.yaml subproject OWNERS file <i>owners</i> entry

OWNERS and SIG Leads

OWNERS files sprinkled all through the repos, eg:

<https://github.com/kubernetes/kubernetes/blob/master/OWNERS>

<https://github.com/kubernetes/kubernetes/blob/master/docs/OWNERS>

SIG Leads:

<https://github.com/kubernetes/community/blob/master/sigs.yaml>

Ask For Help

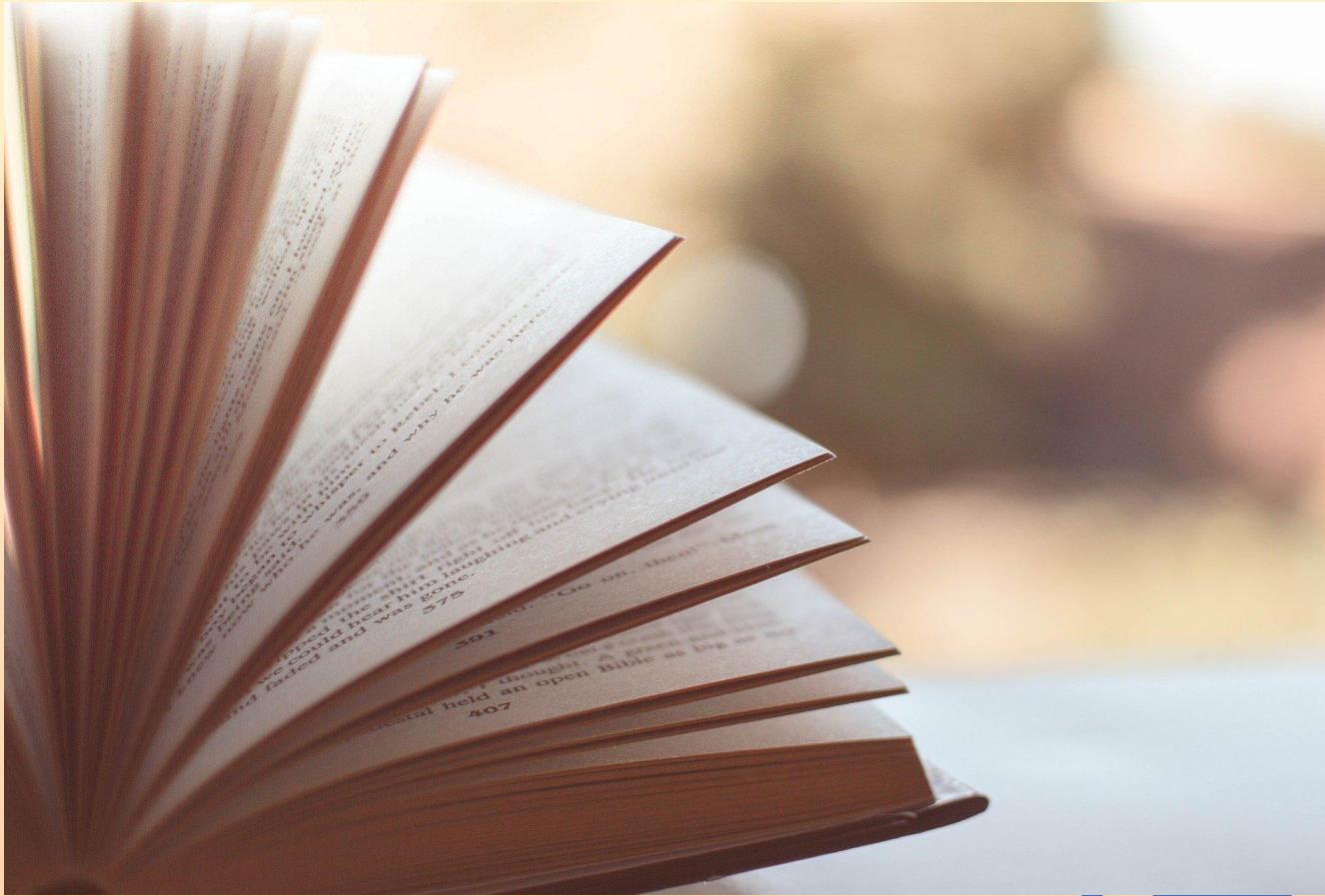


Finding A Reviewer



- Follow Bot Prompts
- Ping Issue author
- Attach /sig label
- Contact OWNERS or SIG
(k/community/[sigs.yaml](#))
 - send email to list
 - ask Slack
 - attend SIG meeting
- #pr-reviews on k8s Slack

Refer to the contributor guide



<http://git.k8s.io/community/contributors/guide>

A Beautiful First-Time Pull Request



Let token create help with joining a master #84591

[Edit](#)**Merged**k8s-ci-robot merged 1 commit into [kubernetes:master](#) from [TheLastProject:feature/print-join-as-admin-command](#) 5 days ago[Conversation 30](#)[Commits 1](#)[Checks 0](#)[Files changed 2](#)[+26 -9](#)

TheLastProject commented 13 days ago • edited

[Contributor](#) + ...**What type of PR is this?**

/kind feature

What this PR does / why we need it:

The kubeadm token create --print-join-command command is very helpful, but doesn't help with adding more masters to your cluster. This adds a --for-master flag which does setup and gives instructions for letting a master join.

Special notes for your reviewer:

This is the first time I am writing any Go code and I am still pretty new to Kubernetes, so this may be very ugly. I am also having trouble actually building Kubernetes on my device:

```
$ make WHAT=cmd/kubeadm
go/build: importGo k8s.io/kubernetes: exit status 1
can't load package: package k8s.io/kubernetes: cannot find module providing package k8s.
```

```
+++ [1031 12:54:41] Building go targets for darwin/amd64:
./vendor/k8s.io/code-generator/cmd/deepcopy-gen
go: finding k8s.io/kubernetes/vendor/k8s.io/code-generator/cmd/deepcopy-gen latest
go: finding k8s.io/kubernetes/vendor/k8s.io/code-generator/cmd latest
go: finding k8s.io/kubernetes/vendor/k8s.io/code-generator latest
go: finding k8s.io/kubernetes/vendor/k8s.io/code-generator latest
```

Reviewers

neolit123



ereslibre



fabriziopandini

**Assignees**

ereslibre

**Labels**

approved

area/kubeadm

cncf-cla: yes

kind/feature

lgtm

ok-to-test

priority/backlog

release-note

sig/cluster-lifecycle

size/M

<https://github.com/kubernetes/kubernetes/pull/84591>

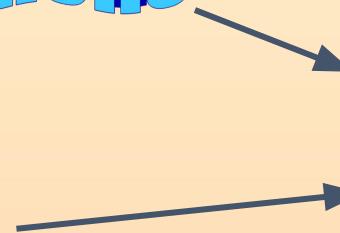
79

Contributions

Community Groups

Code Contributions

reviewing



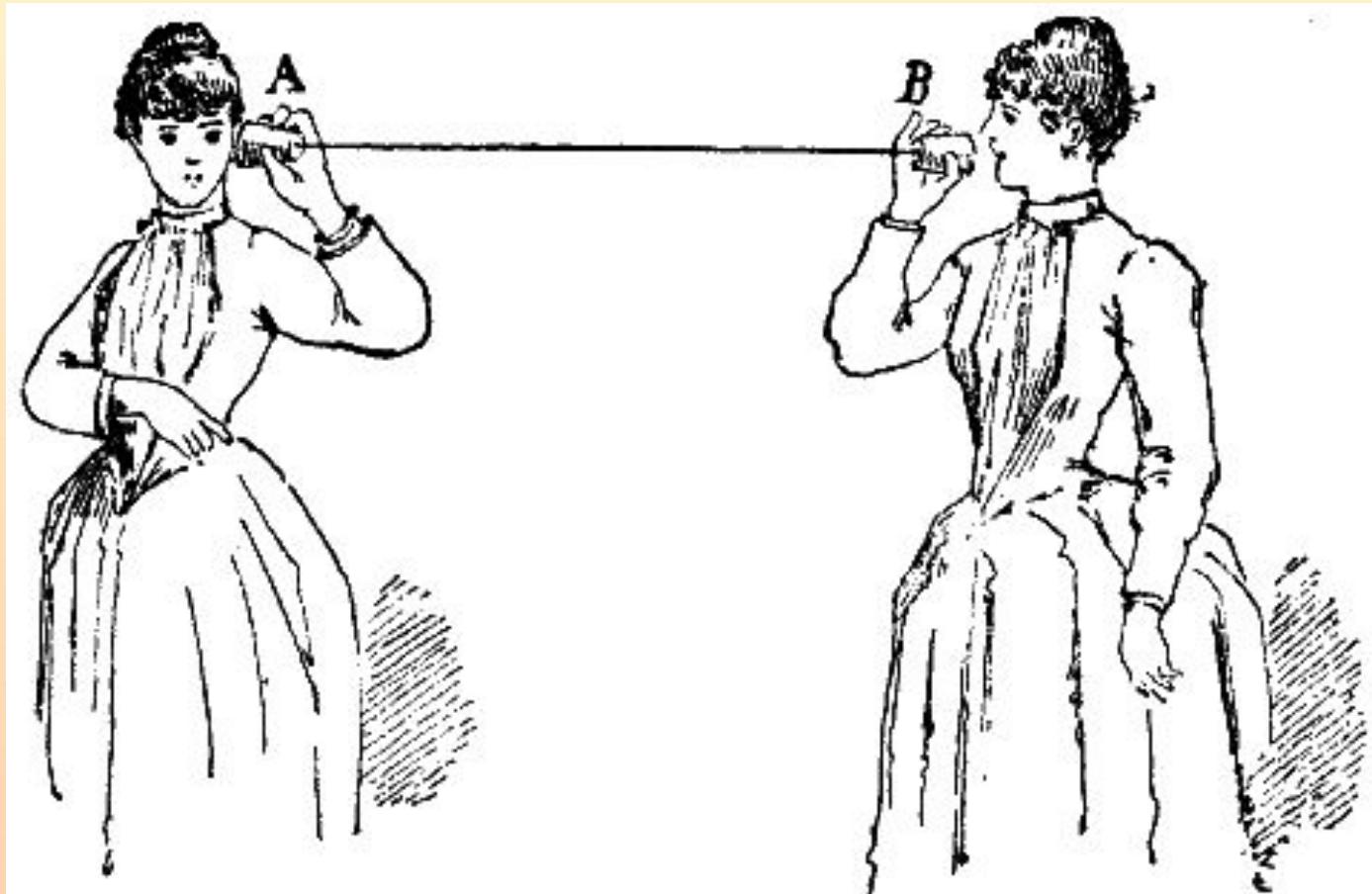
Docs

Mentorship



コミュニケーション

Let's Talk



Communication in the Kubernetes Community





When you're chill with everyone



Standards of Communication

aka: Why is everyone so nice?

We believe that mutual respect is a prerequisite for healthy collaboration.

git.k8s.io/community/code-of-conduct.md

Where to ask Technical Questions



Register here: slack.k8s.io

User Focused

- [#kubernetes-users](#)
- [#kubernetes-novice](#)
- [#office-hours](#)

Contributor Focused

- [#kubernetes-dev](#)
- [#meet-our-contributors](#)
- [#pr-reviews](#)
- [#sig-contribex](#)
- [#jp-dev](#)

日本人向け

- [#jp-dev](#)
- [#jp-mentoring](#)
- [#jp-users](#)
- [#jp-users-novice](#)
- [#jp-events](#)
- [#kubernetes-docs-ja](#)

Discuss

 **kubernetes**

Do you want live notifications when people reply to your posts? [Enable Notifications.](#)

This site is governed by the [CNCF Code of Conduct](#). Check out our [quick tutorial video](#) on how to effectively subscribe to topics.

[all categories](#) [Categories](#) [Latest](#) [New \(10\)](#) [Top](#) [+ New Topic](#)

Category	Topics
Announcements Announcements from around the Kubernetes community. Posts here must be Kubernetes related, commercial products and services are also welcome, please keep it classy.	5 / week 3 new
General Discussions Got something to say about Kubernetes? Hop in here. Links to interesting cloud-native blog posts encouraged. Technical support questions are better off posted on StackOverflow .	14 / week 7 new
Regional Discussions The Regional Discussions Category is intended for those users that belong to a specific region or share a common language to openly interact and connect with each other in their native language. If you are interested in establishing a new regional board, please reach out to one of the admins .	1 / week
Chinese Ukrainian Italian German	
Contributors	6 / week

Latest

-  [Welcome to Discuss Kubernetes](#) 0 Aug 21
-  [Service discovery in eks cluster](#) • [General Discussions](#) 1 1h
-  [Boomi in kubernetes](#) • [General Discussions](#) 0 4h
development
-  [One year of Weave Flux](#) • [General Discussions](#) 0 6h
gitops
-  [\[Book\] Getting Started with Kubernetes - Third Edition](#) • [Announcements](#) 0 7h

Want more long-form discussions?

Head over to:
discuss.kubernetes.io



Planning and Discussion

Mailing lists

- One per SIG/WG
 - Some have more for large subprojects.
- Run on Google Groups
- You need to join:
 - [kubernetes-dev](#)
 - Required for Org Membership!





Issues Features Pull requests



Break up and Refactor test/e2e/framework/utils.go #77095

[Open](#) andrewsykim opened this issue 4 days ago · 21 comments

andrewsykim commented 4 days ago • edited

What would you like to be added:
There are a lot of methods in `test/e2e/framework/util.go` that can be cleaned up or moved into its own package for easier consumption/discovery. In #76206 there were some discussions for how to break up this file. The proposed package structure was:

`test/e2e/framework/`

- `kubectl/ (@alejandrox1)`
 - `builder.go`
 - `runner.go`
- `log/ (@WanLinghao)`
 - `logger.go`
- `pod/ (@alejandrox1)`
 - `wait.go`
 - `resource.go`
- `node/ (@alejandrox1)`
 - `wait.go`
 - `resource.go`
- `service/ (@draveness)`
 - `resource.go`
- `endpoints/ (@draveness)`
 - `resource.go`
- `resource/ (@draveness)`
 - `runtime.go`
- `lifecycle/ (@WanLinghao)`
 - `versions.go`
 - `state.go`
 - `restart`
- `wrappers.go (@MorrisLaw)`
- `providers.go (@MorrisLaw)`

I think each package & top level file can be it's own task. Pick a package above, go through each method in `test/e2e/framework/util.go` and move it to that package/file if it makes sense. The above is just a guideline, feel free to introduce new packages/files where it makes sense.

Why is this needed:
This is a part of #76206 & #75601

Assignees
No one assigned

Labels
`area/e2e-test-framework`
`kind/feature`
`sig/testing`

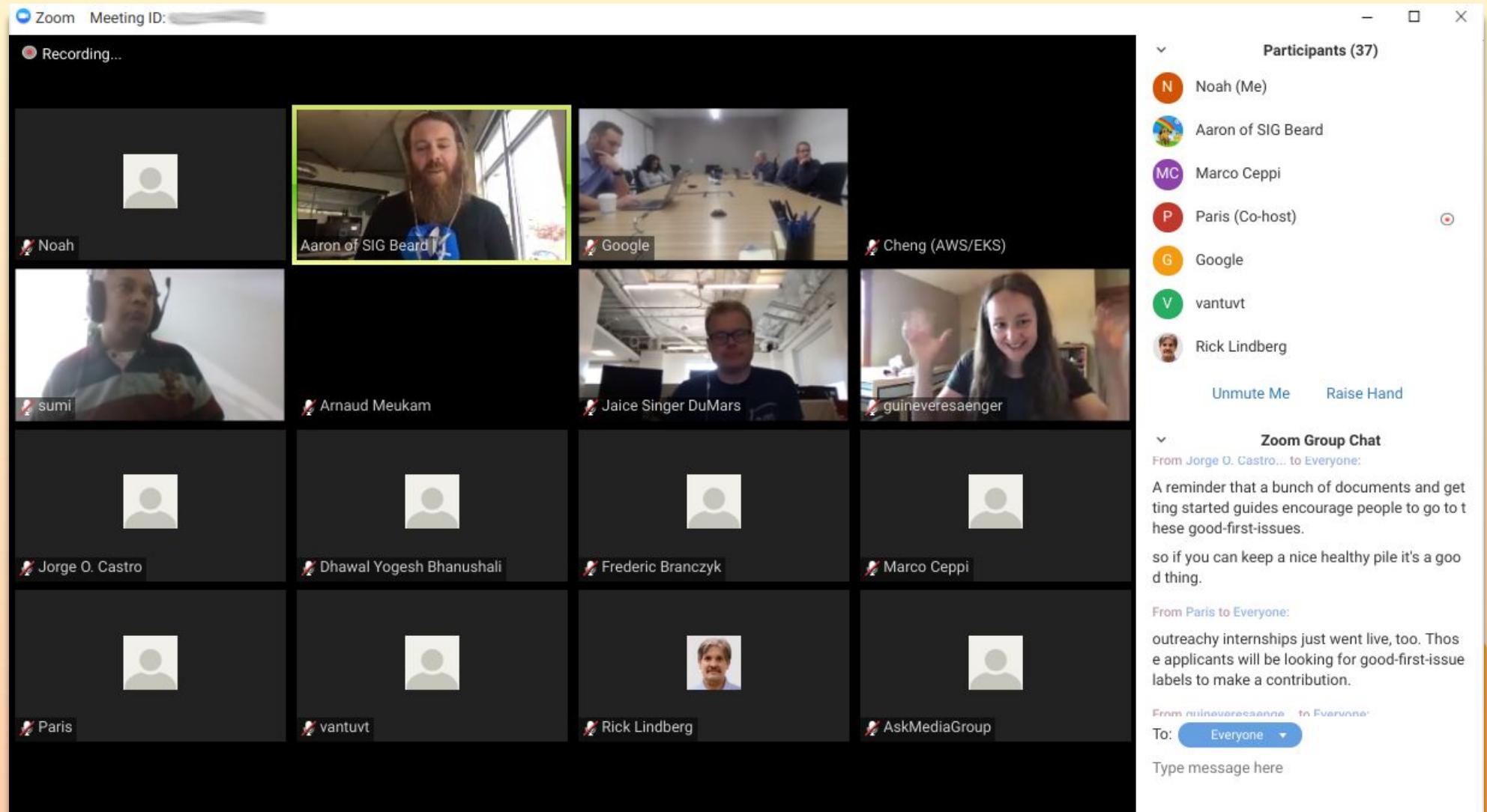
Projects
None yet

Milestone
No milestone

Notifications
[Subscribe](#)
You're not receiving notifications from this thread.

8 participants

Zoom Meetings



Zoom Meetings

Schedule is on the [community calendar](#)

- SIG Meetings
- [Kubernetes Weekly Community Meeting](#)
 - Overview of community activities, release info, and governance updates.
- Special meetings
- Code of Conduct always applies

Other Communications

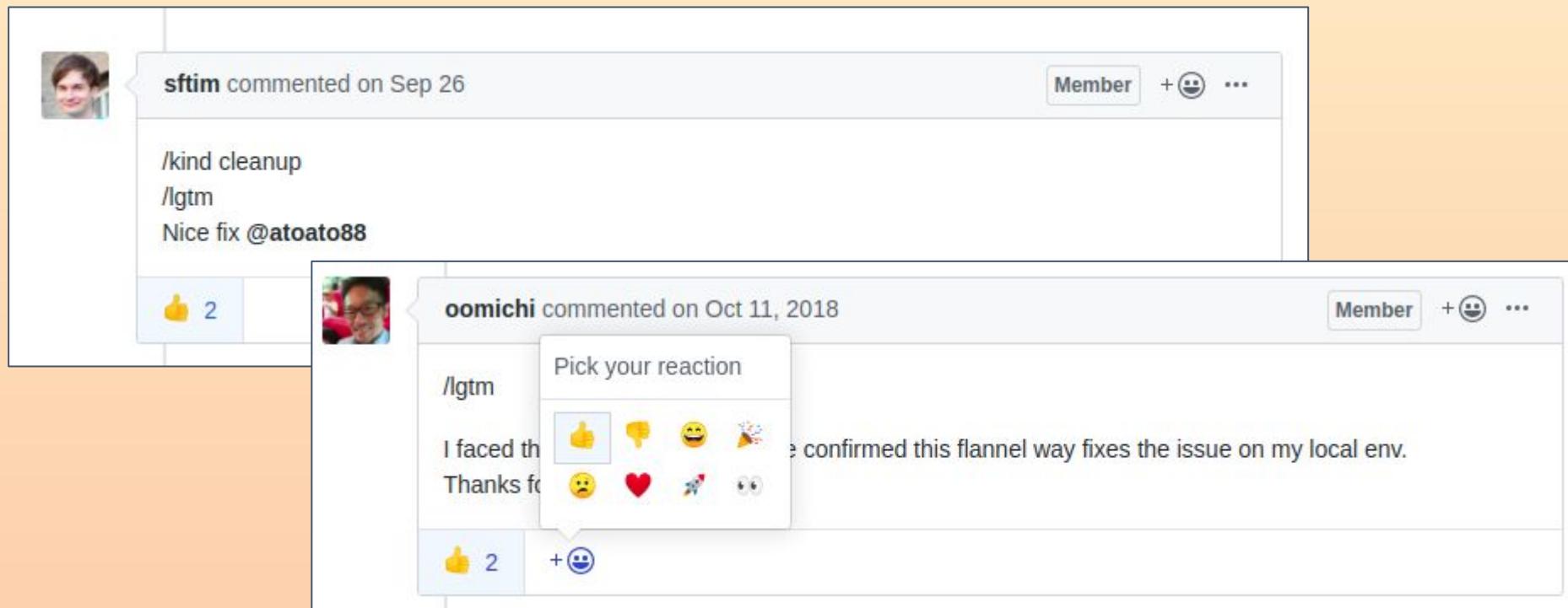
- kubernetes.io/community
 - Links to everything community related can be found here
- [Meet Our Contributors](#)
 - Monthly live video discussion with contributors
- [Office Hours](#)
 - Monthly live video panel to ask technical questions
- KubeCon + CloudNativeCon
- Face-to-Face SIG meetings
- [Meetups](#)



コミュニケーションのTips

コミュニケーションのTips

- 絵文字によるアクションもあります。
 - 文章を考えるまでもない同意など表現を1クリックで行えるので便利です。



コミュニケーションのTips

- Google翻訳を使っていきましょう。
 - GithubやSlack、MLなどコミュニケーションの大半は基本的に英語で行われます。
 - Google翻訳は比較的精度も高く、英文を作るのにとても有用です。
 - 目的は意思疎通をすることです。ツールは便利に使って、積極的に目的を果たしましょう。



コミュニケーションのTips

- 比較的使われる英語表現を列挙します。

- I'm facing the same issue. / 私も同じ問題を経験しています
- ditto / (既に指摘した部分に続いて、) 同上です
- nits / 細かい指摘だけど
- nit: ... / 細かい指摘ですが ...
- PTAL (Please take another look) / 見直して下さい
- WDYT (What do you think?) / どう思いますか？
- LGTM (Looks good to me) / 大丈夫だと思います。
- SGTM (Sounds good to me) / いいと思います。いいね。
- SG (Sounds good) / いいと思います。いいね。
- FYI (For your information) / 参考までに
- _(ツ)_/- (shrug) / 肩をすくめる
- IMHO (In my humble opinion) / つまらない意見ですが、私に言わせていただければ
- TBH (To Be Honest) / 正直に言うと、はっきり言って



コミュニケーションのTips

- 1文は短めに。
 - 英語を書こうとすると、長く、読みにくくなりがちですが、伝わりやすさを重視した、短めの文章を心がけましょう。



コミュニケーションのTips

- Issue や PR を作ったら GitHub 上でレビュー依頼を出しますが、反応が少ないようであれば Slack で連絡を出すと良いです。
- Slack の #jp-dev や #jp-mentoring も活用してみてください。



shu 08:26

Could you review <https://github.com/kubernetes/org/issues/1663>? This is New membership request for German translator.



kgroschoff

#1663 REQUEST: New membership for kgroschoff

GitHub Username

@kgroschoff

Organization you are requesting membership in

@kubernetes

Requirements

- I have reviewed the community membership guidelines (<https://git.k8s.io/community/community-membership.md>)
- I have enabled 2FA on my GitHub account (<https://github.com/settings/security>)
- I have subscribed to the kubernetes-dev e-mail list (<https://groups.google.com/forum/#!forum/kubernetes-dev>)
- I am actively contributing to 1 or more Kubernetes subprojects
- I have two sponsors that meet the sponsor requirements listed in the community membership guidelines

[もっと表示する](#)

Labels

area/github-membership

Comments

1

 [kubernetes/org](#) | 2月27日 投稿したメンバー: GitHub

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Break - 5 minutes



Hands On

Playground Exercise

Your turn!!!

<https://sigs.k8s.io/contributor-playground>



Playground Exercise

<https://sigs.k8s.io/contributor-playground>

1. Fork and clone
2. Make changes in “japan/<EVENT-NAME>/workdir/”
directory *change <EVENT-NAME> with event name you joined (e.g. ood-2022).
3. Pull request
4. Review/comment/rebase
5. Pay attention to labels and bot prompts

Playground Exercise - Ask reviews

Ask reviews on #jp-dev

example:

@Shu Muto Please review
<https://github.com/kubernetes/kubernetes/pull/79695>

Reviewers list on k8s slack

@akihito-inou(atoato88)

@oomichi

@inukai

@Shinji Kawamura (s-kawamura-w664)

@Shu Muto

@YuikoTakada

@XIE ZIYI



Playground Exercise

```
$ git clone https://github.com/foo/contributor-playground      *change foo with your github account  
$ cd contributor-playground  
$ git remote add upstream https://github.com/kubernetes-sigs/contributor-playground  
$ git remote set-url --push upstream no_push  
  
$ git remote -v  
origin https://github.com/foo/contributor-playground (fetch)  
origin https://github.com/foo/contributor-playground (push)  
upstream https://github.com/kubernetes-sigs/contributor-playground (fetch)  
upstream no_push (push)
```

Playground Exercise

```
$ cd japan/<EVENT-NAME>/workdir/
```

*change <EVENT-NAME> with event name you joined (e.g. ood-2022).

```
$ git checkout -b add_foo_md
```

```
$ vi foo.md
```

```
$ git add foo.md
```

```
$ git commit -m "Add foo.md"
```

```
$ git fetch upstream
```

```
$ git rebase upstream/master
```

```
$ git push origin add_foo_md
```



Playground Exercise

access <https://github.com/kubernetes-sigs/contributor-playground>

create PR

ask reviews on slack #jp-dev

Playground Exercise

- ハンズオンで実行したコマンド
https://github.com/kubernetes-sigs/contributor-playground/blob/master/japan/assets/hands_on.md
- CLAサインアップ
<https://github.com/kubernetes-sigs/contributor-playground/blob/master/japan/assets/attendee-prerequisites.md#サインアップ作業>
- ご質問は、slack の **#jp-mentoring** まで
- PR のレビュー依頼は、slack の **#jp-dev** まで

@akihito-inou(atoato88)

@oomichi

@inukai

@Shinji Kawamura (s-kawamura-w664)

@Shu Muto

@YukoTakada

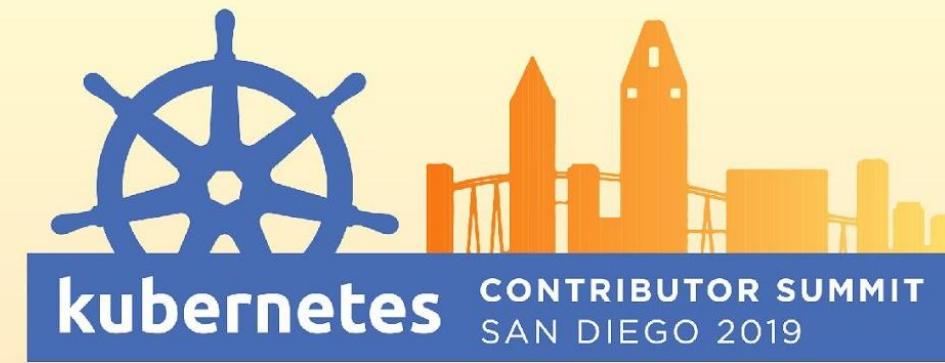
@XIE ZIYI





Break - 5 minutes

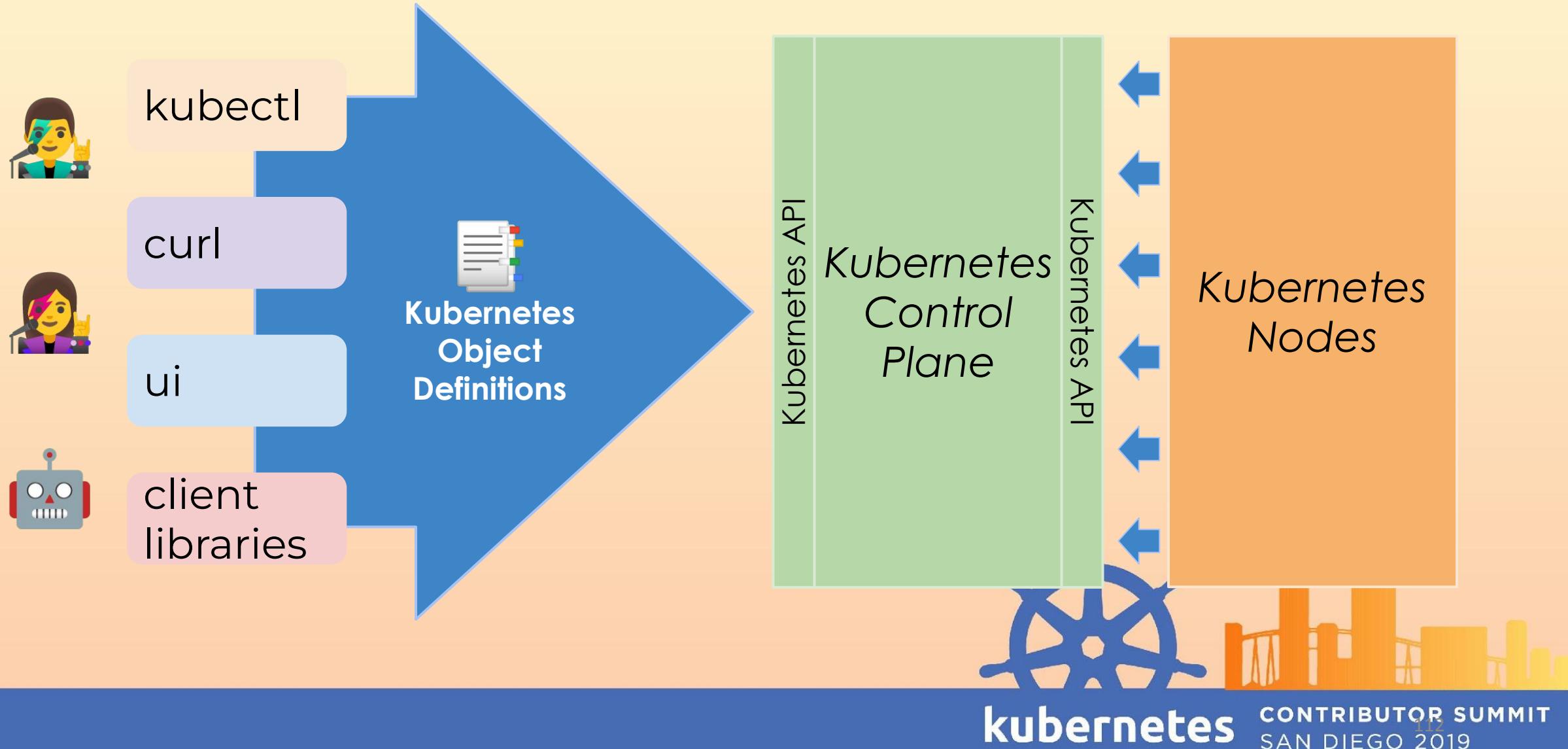
Let us know if you need any additional hands on help.



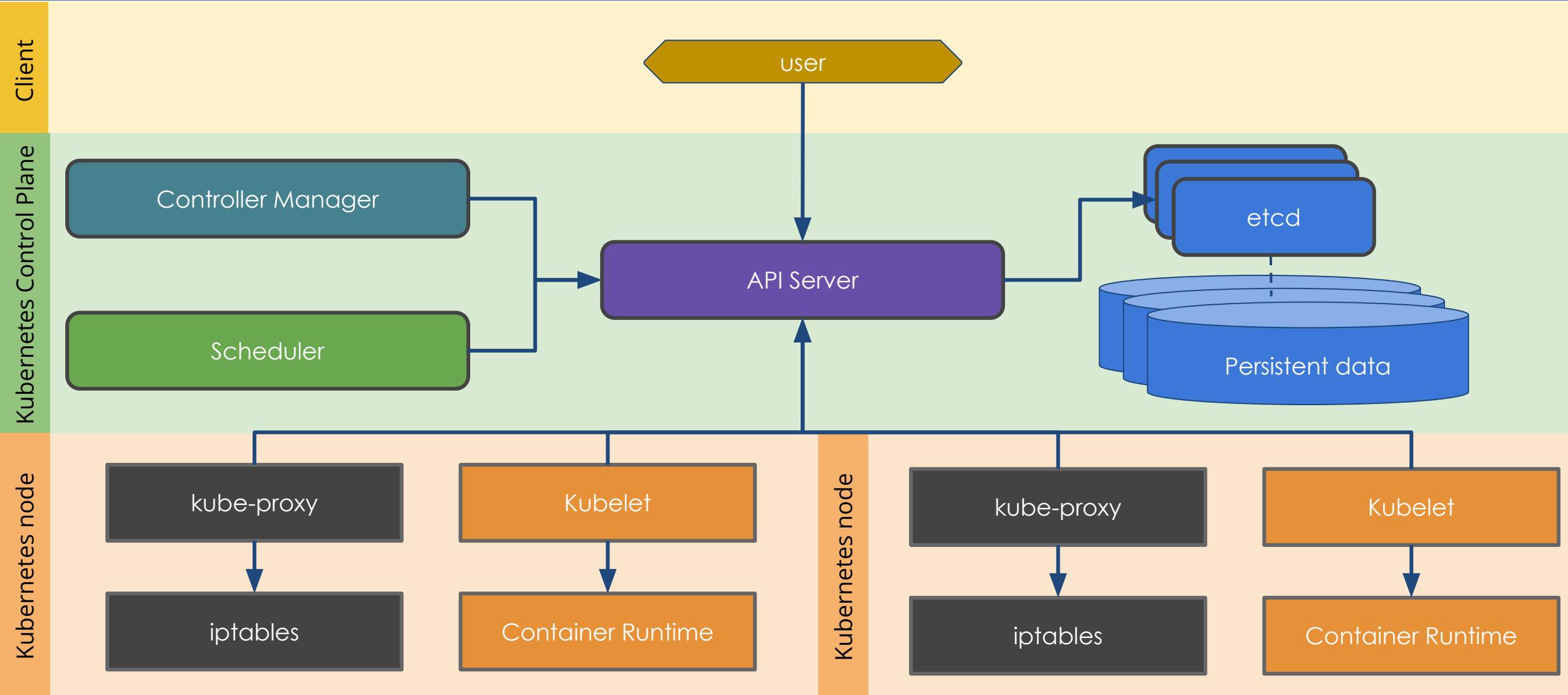
Kubernetes 開發環境

Kubernetes 概要

Kubernetes Architecture Overview



Kubernetes Primitives



Basic Repo/Code Tour

kubernetes / kubernetes

Watch 3.1k Unstar 59.4k Fork 20.9k

Code Issues 2,278 Pull requests 1,076 Actions Projects 9 Security Insights

Production-Grade Container Scheduling and Management <https://kubernetes.io>

kubernetes go cncf containers

84,806 commits 40 branches 0 packages 576 releases 2,339 contributors Apache-2.0

Branch: master New pull request Create new file Upload files Find file Clone or download

Commit	Message	Time
	k8s-ci-robot Merge pull request #84553 from ahg-g/ahg-nodeinfo ...	Latest commit b6bf0d6 1 hour ago
	.github Fix incorrect whitespaces plural	6 days ago
	Godeps Pin dependencies and update vendors	6 days ago
	api Kubernetes version v1.18.0-alpha.0 openapi-spec file updates	yesterday
	build Merge pull request #84329 from jingyih/update_etcd_server_to_3.4	7 hours ago
	cluster Merge pull request #84329 from jingyih/update_etcd_server_to_3.4	7 hours ago
	cmd Merge pull request #84329 from jingyih/update_etcd_server_to_3.4	7 hours ago

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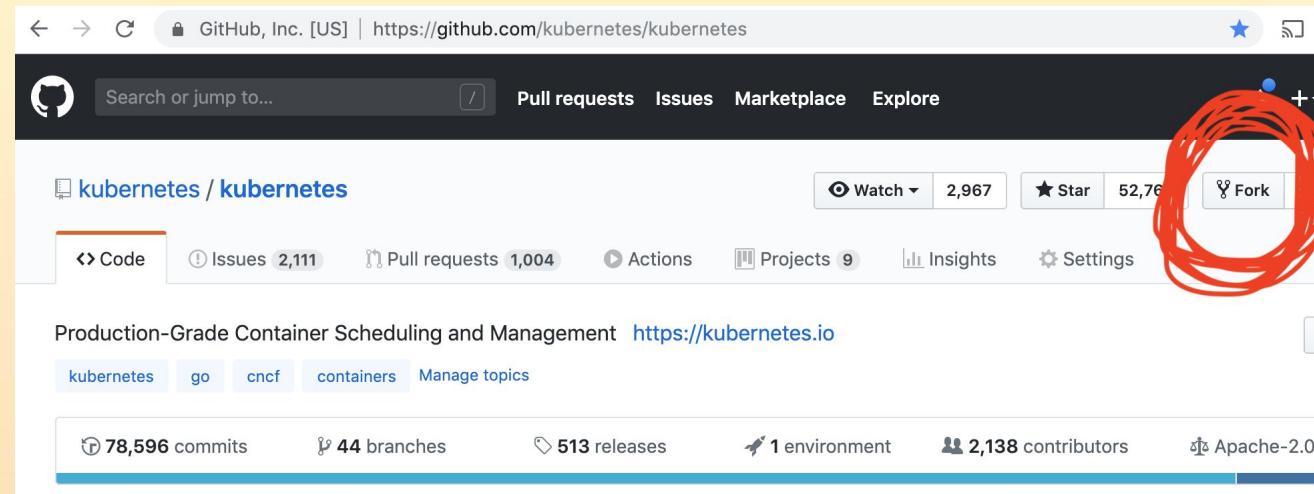
Dev Environment: Pre-Requisites

- Lots of RAM/Disk/CPU
- Linux, Mac, Windows basic dev tools
- Docker (for Mac/Win dedicate **6GB RAM**)
- Golang 1.16 latest and \$GOPATH set
- GitHub:
 - Account and SSH key configured
 - Fork github.com/kubernetes/kubernetes

<https://www.flickr.com/photos/vestman/3900877043/>
By Vestman (vestman) [CC BY 2.0], via flickr



Dev Environment: Initialization



- mkdir -p \$GOPATH/src/k8s.io/ && cd \$GOPATH/src/k8s.io/
- git clone [git@github.com:\\$YOUR_USER/kubernetes.git](git@github.com:$YOUR_USER/kubernetes.git) && cd kubernetes
- git remote add upstream <https://github.com/kubernetes/kubernetes.git>
- git remote set-url --push upstream no_push
- git fetch upstream
- git checkout master

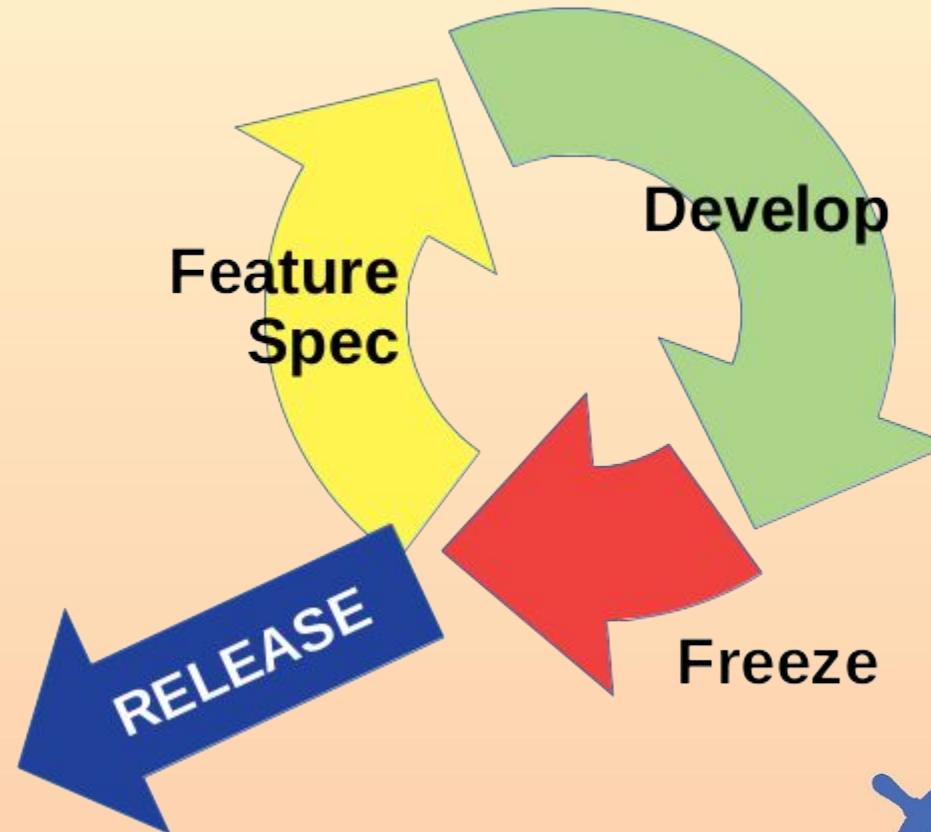


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リリースサイクル

The 4-month Release Cycle



Release Process

Enhancements Discussion (per SIG): ongoing

Enhancements Freeze: week ~3

Code Freeze: week ~13
...bugs, testing, bugs, fixing, bugs, ...iterating

Release Branch Creation: week ~14

End Code Freeze(Thaw): week ~16

Release: week ~16

Enhancements Definition

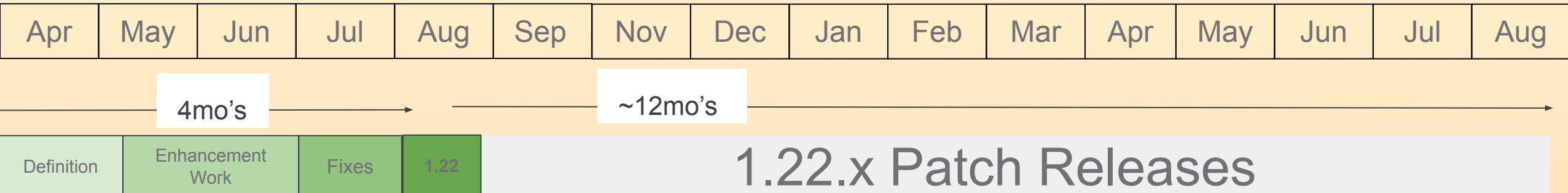
Feature Work

Bug Fixing

Release

4 Month Cycle

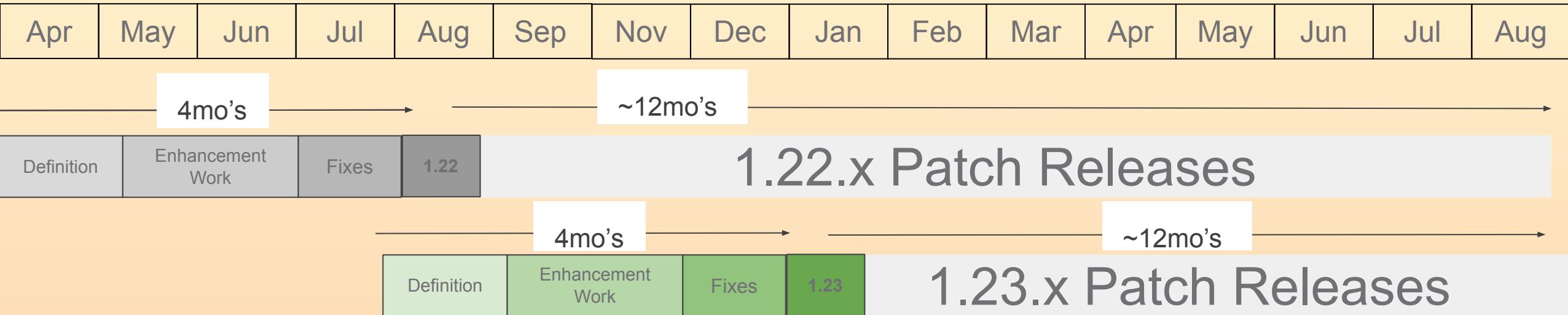
Release Lifecycle



K8s
Releases



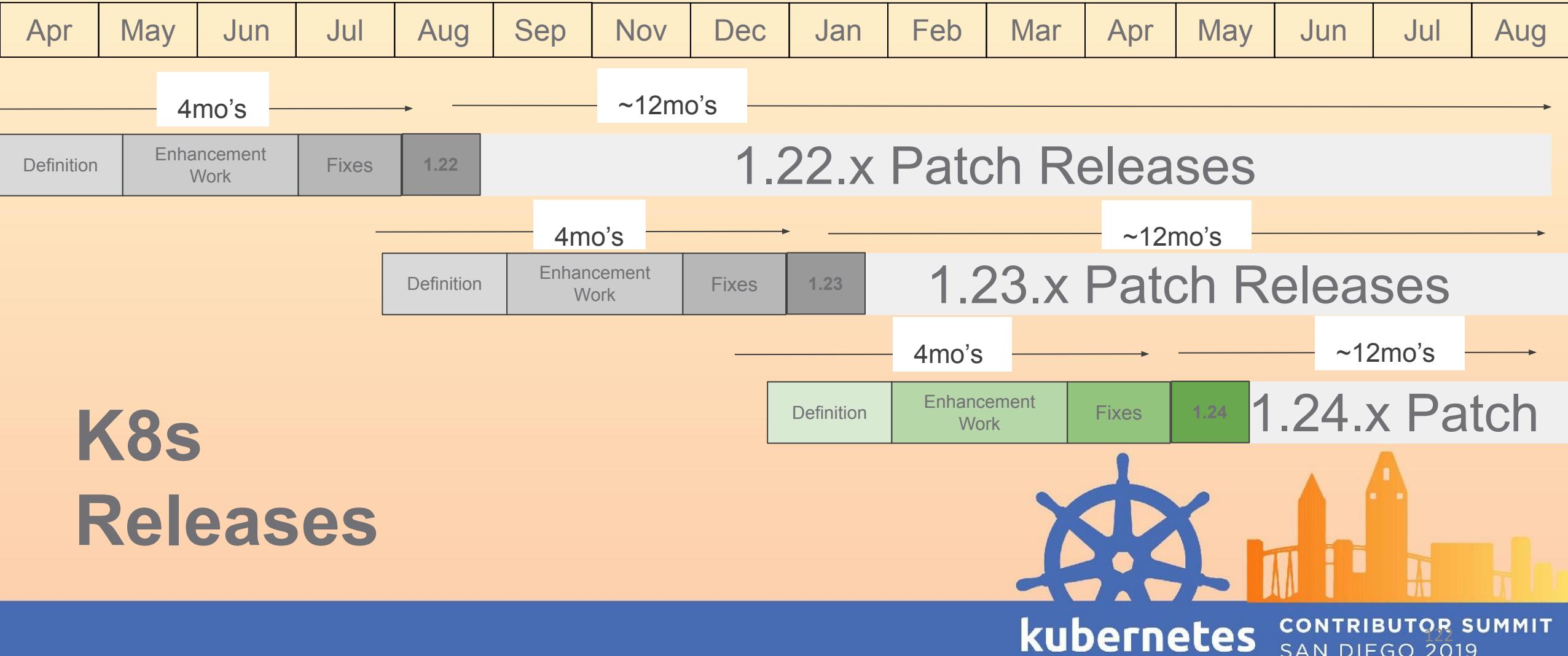
Release Lifecycle



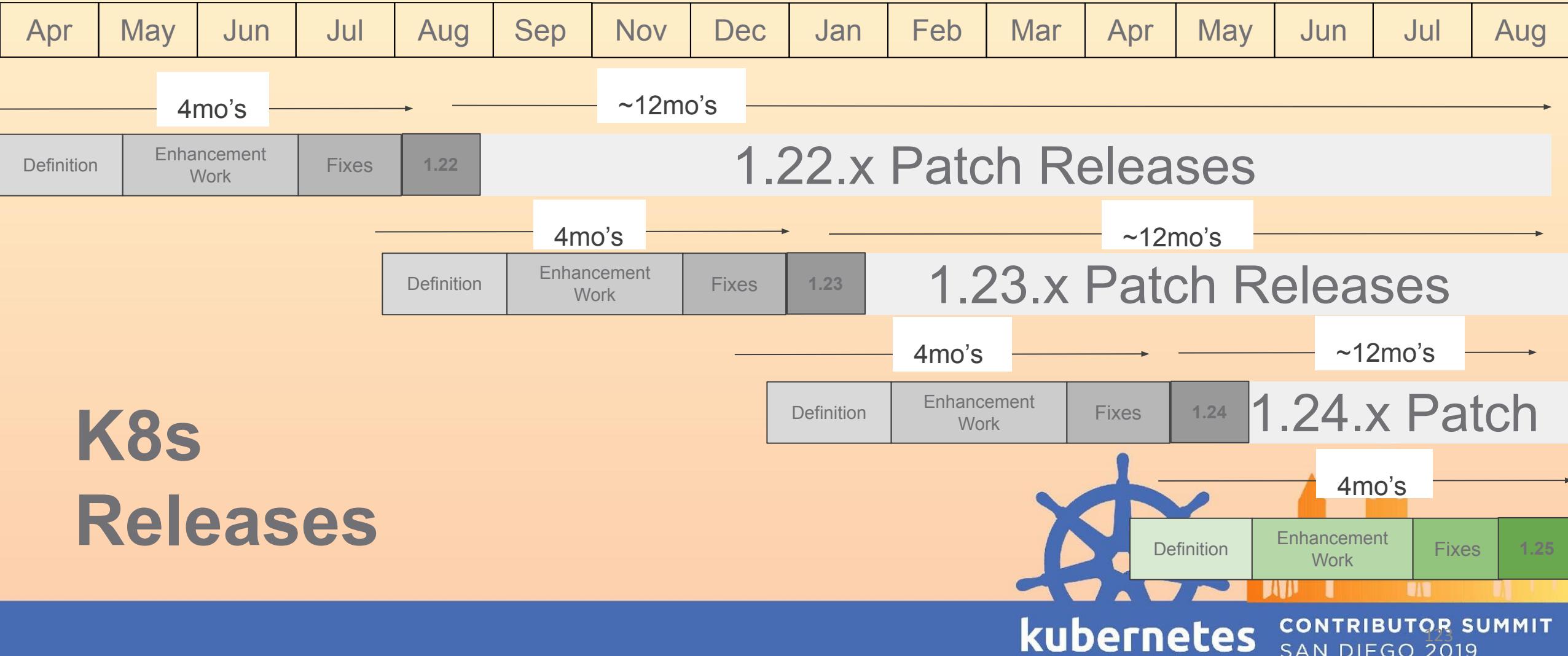
K8s
Releases



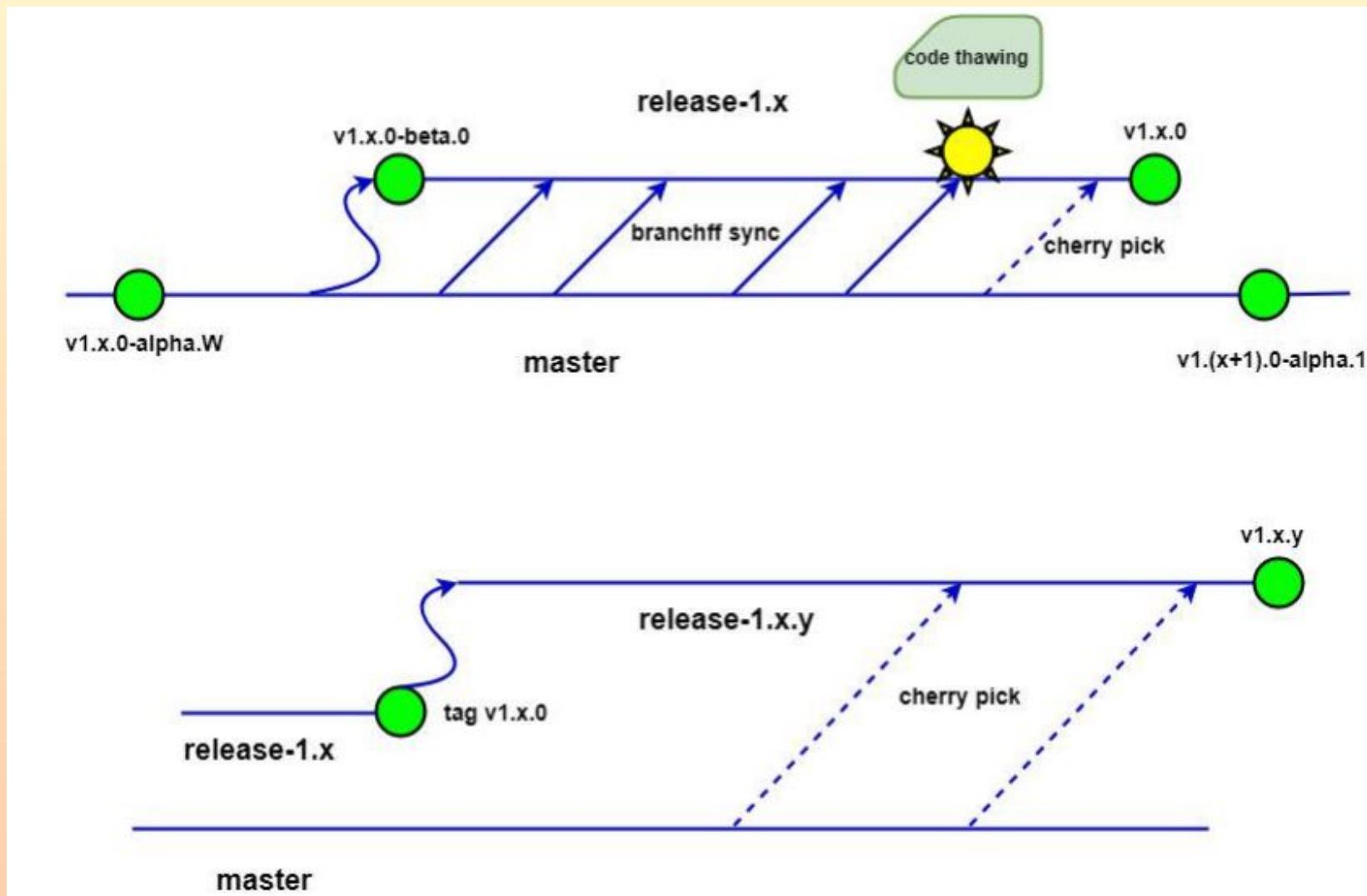
Release Lifecycle



Release Lifecycle



Branch Management



開発環境構築

Build System(s)

- local OS
or
- container based
- make

<https://git.k8s.io/kubernetes/build/README.md>



Make Targets

- ‘**make**’: go build of host OS/arch-specific core binaries
- ‘**make release**’: (don’t do this)
 - containerized build of client/server/node binaries
 - Window, MacOS, Linux
 - x86/386, x86_64/amd64, arm, arm64, ppc64le, s390x
- ‘**make quick-release**’:
 - containerized build of core binaries
 - defaults to linux/amd64

Testing

- **Unit:** test via native golang
- **Integration:** test package or component interactions
- **End-to-end (“e2e”):** tests overall system behavior and coherence on a fully integrated cluster
- **Conformance:** subset of e2e, tests SIG Architecture approved to define the core set of interoperable features

[https://git.k8s.io/community/contributors/guide/contributing.md
#testing](https://git.k8s.io/community/contributors/guide/contributing.md#testing)

Testing: Unit Tests

- Simple native golang
- Example: run kubectl's unit tests
- cd pkg/kubectl; go test ./...

```
$ go test ./...
?      k8s.io/kubernetes/pkg/kubectl [no test files]
ok    k8s.io/kubernetes/pkg/kubectl/cmd/convert 0.082s
$
```

Testing: Integration

- Package or component interactions
- Requires dependency management
- Example: run a test of k8s code + etcd
- `hack/install-etcd.sh; make test-integration`

Testing: End-to-End (e2e)

- Cluster interactions
- Requires ... a cluster
- Example: run a focused e2e test (requires Linux)

```
$ sudo PATH=$PATH hack/install-etcd.sh  
$ sudo PATH=$PATH hack/local-up-cluster.sh  
$ export KUBECONFIG=/path/to/kubeconfig  
$ kubetest --provider=local --test \  
--test_args="--minStartupPods=1 --ginkgo.focus=Secrets"
```

Testing: Conformance

- Subset of e2e
- SIG Architecture approved tests
- Represent core set of interoperable features
- Example: run the conformance tests

(see previous on local-cluster-up.sh)

```
$ make WHAT="test/e2e/e2e.test vendor/github.com/onsi/ginkgo/ginkgo cmd/kubectl"  
$ kubetest --provider=skeleton --test --test_args="--ginkgo.focus=\[Conformance\]"
```

Testing: Minikube

- <https://github.com/kubernetes/minikube/>
- Kubernetes **cluster-in-a-VM** on your local machine!
- Requirements:
 - Host machine with kubectl
 - Guest VM ability
 - Host<->Guest networking and internet connectivity

Testing: KinD (Kubernetes in Docker)

- <https://github.com/kubernetes-sigs/kind/>
- Kubernetes **cluster-in-a-container** on your local machine!
- Requirements:
 - Docker runtime
 - Internet connectivity
- Get KinD, build k8s from source, start cluster:

```
$ go install sigs.k8s.io/kind@v0.17.0
$ kind create cluster
$ mkdir ~/.kube
$ kind get kubeconfig > ~/.kube/config
```

Kubespray 開発環境



- 下記をフォークして、ローカルにクローンする
 - <https://github.com/kubernetes-sigs/kubespray>
 - git clone <https://github.com/<your account>/kubespray>
 - cd kubespray
- 必要なライブラリをインストールする
 - virtualenv venv
 - source venv/bin/activate
 - pip install -r tests/requirements.txt
- 修正対象のファイルを編集する
- 以下を実行して、変更後の Ansible プレイブックの書式を確認する
 - yamllint .
 - ansible-lint
- 以下を実行して、変更後のプレイブックをテストする。
 - ./tests/scripts/molecule_run.sh
- 参考: <https://github.com/kubernetes-sigs/kubespray/blob/master/CONTRIBUTING.md>
- Slack: [#kubespray-dev](#)

Website 開発環境



- 下記をフォークして、ローカルにクローンする
 - <https://github.com/kubernetes/website>
 - git clone <https://github.com/kubernetes/website.git>
 - cd website
- サブモジュールをアップデートする
 - git submodule update --init --recursive --depth 1
- 修正対象のファイルを編集する
- 以下を実行して、コンテナ内でサイトを構築する
 - make container-image
 - make container-serve
- ブラウザで <http://localhost:1313> にアクセスして、修正内容を確認する
- 参考: <https://github.com/kubernetes/website/blob/main/README-ja.md>
- Slack: [#kubernetes-docs-ja](#) (日本語ページ向け)



Q & A



Thank you, and
welcome aboard!

