



KubeCon



CloudNativeCon

China 2018

Kubernetes: Use it, Contribute to it, and Enjoy it!

Xiangpeng Zhao, Software Engineer, ZTE Corporation

Github: @xiangpengzhao



Agenda



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1. **The community**
2. How to contribute
3. Versioning
4. The easy way to use it
5. Demo
6. Q & A

The community



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Orgs/Repos

SIGs/WGs



Ecosystem

Communication

Resources

Orgs/Repos



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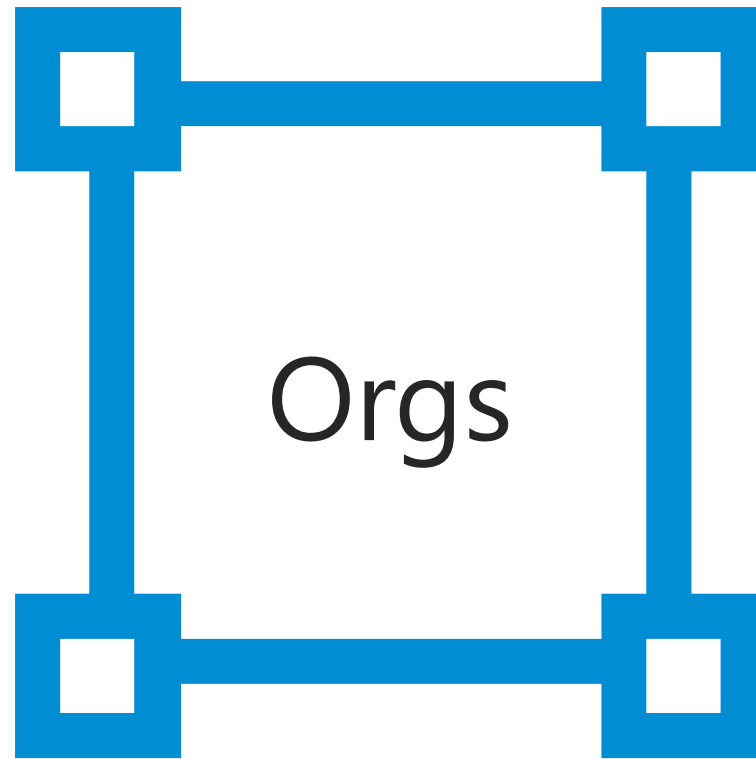
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Kubernetes

Kubernetes
Clients

Kubernetes
SIGs



Kubernetes
Incubator

kubernetes-
csi

kubernetes-
retired

Orgs/Repos

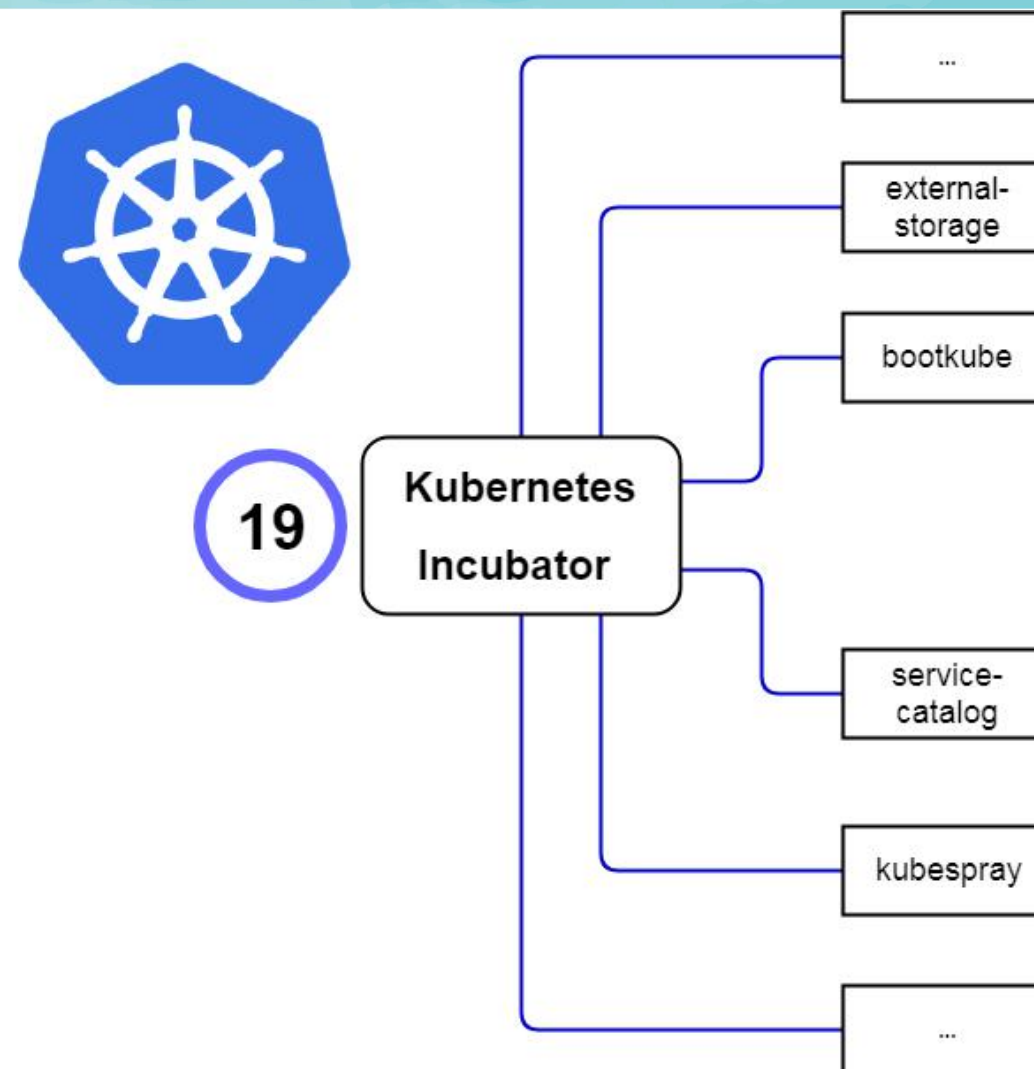
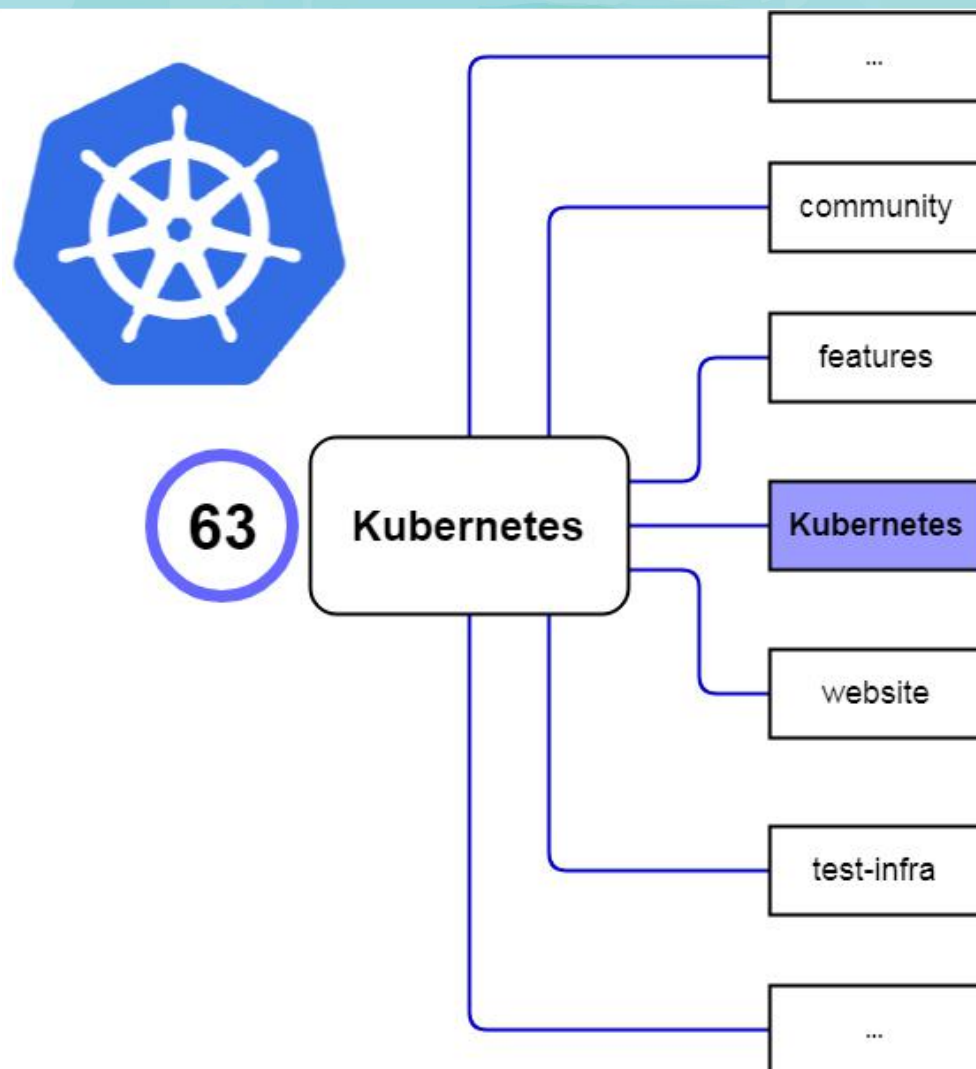


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Orgs/Repos

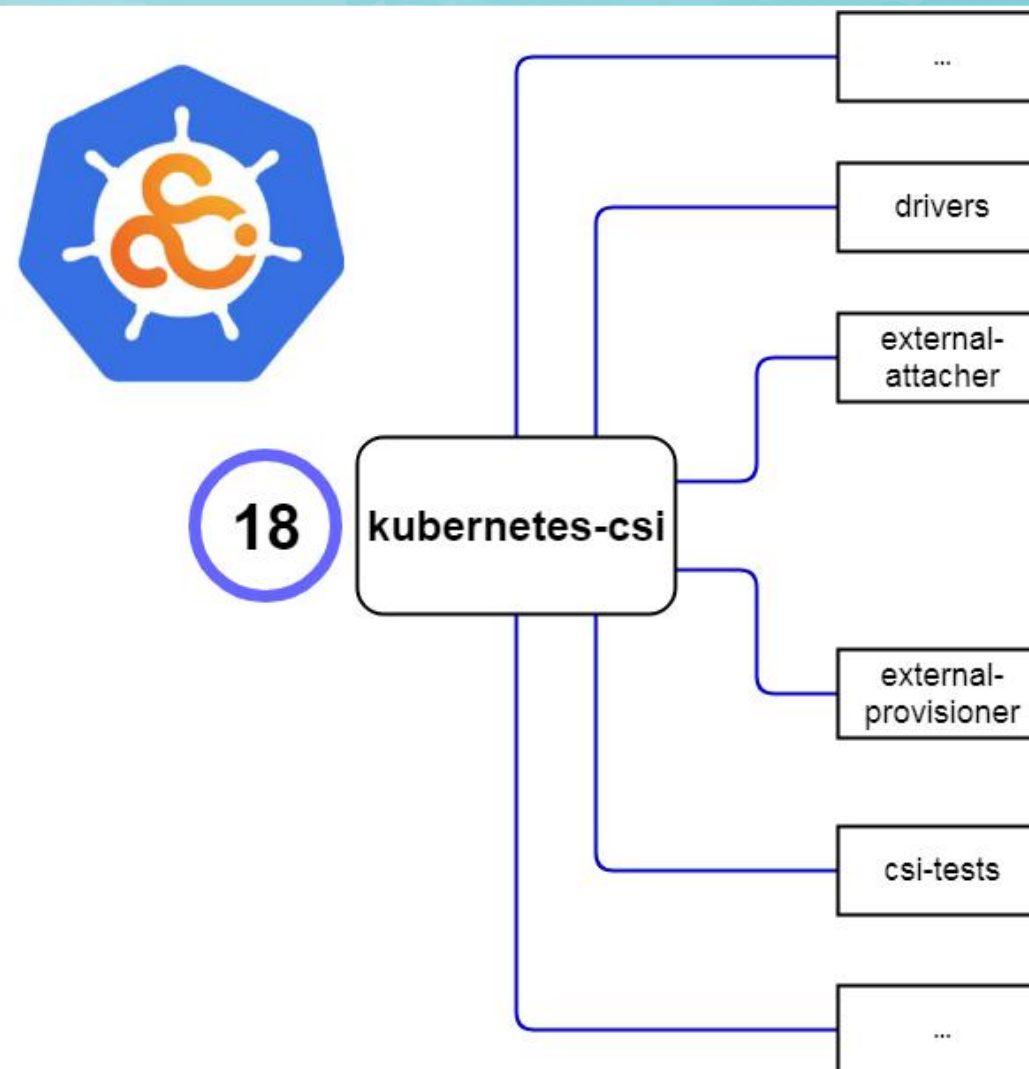
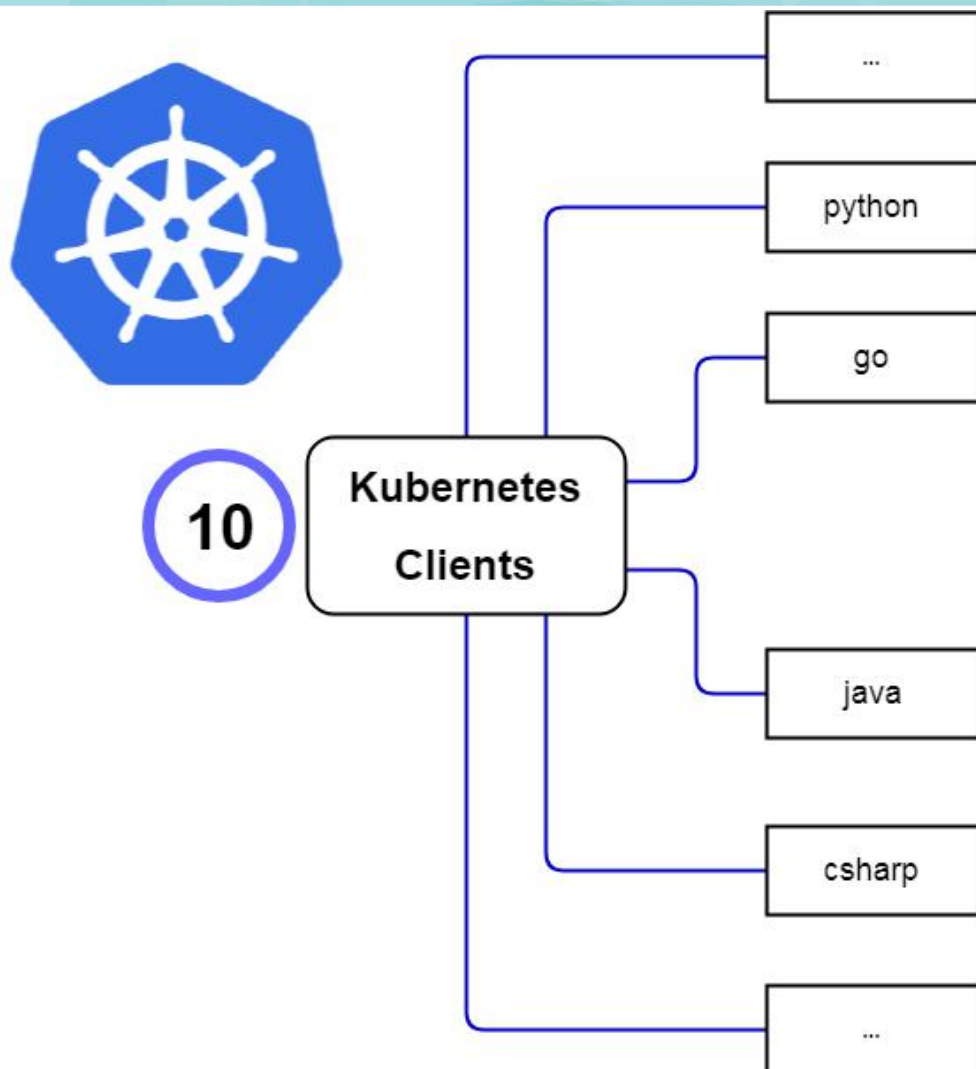


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Orgs/Repos

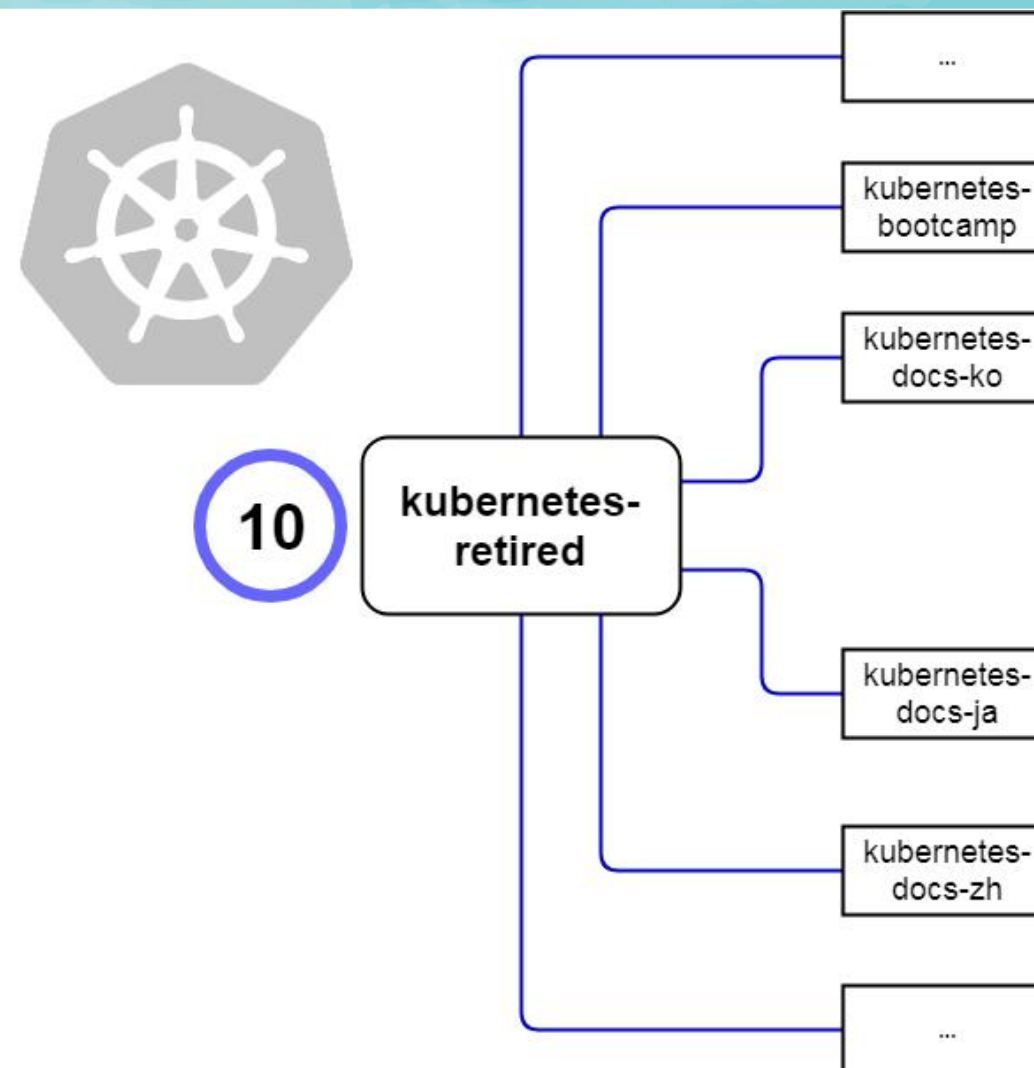
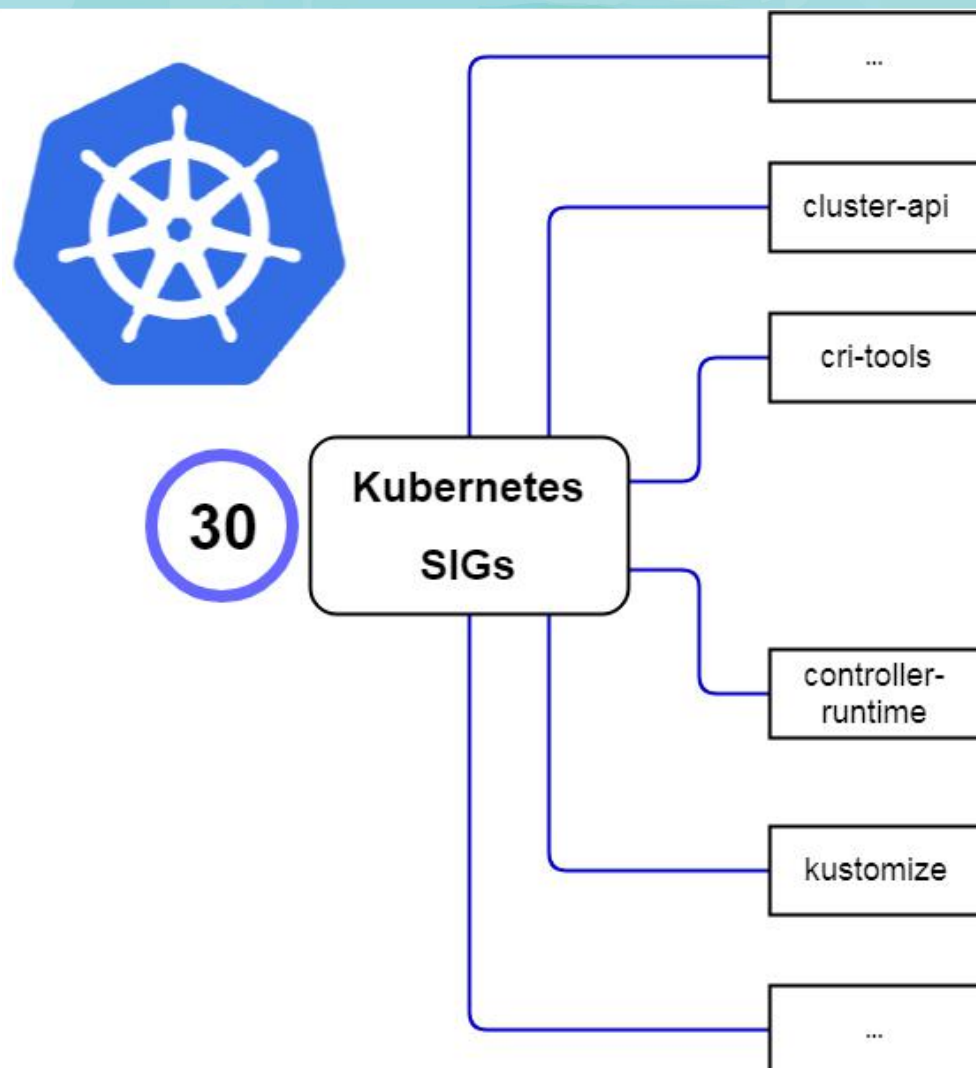


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Special Interest Group

Working Group

<https://github.com/kubernetes/community/blob/master/sig-list.md>

SIGs/WGs

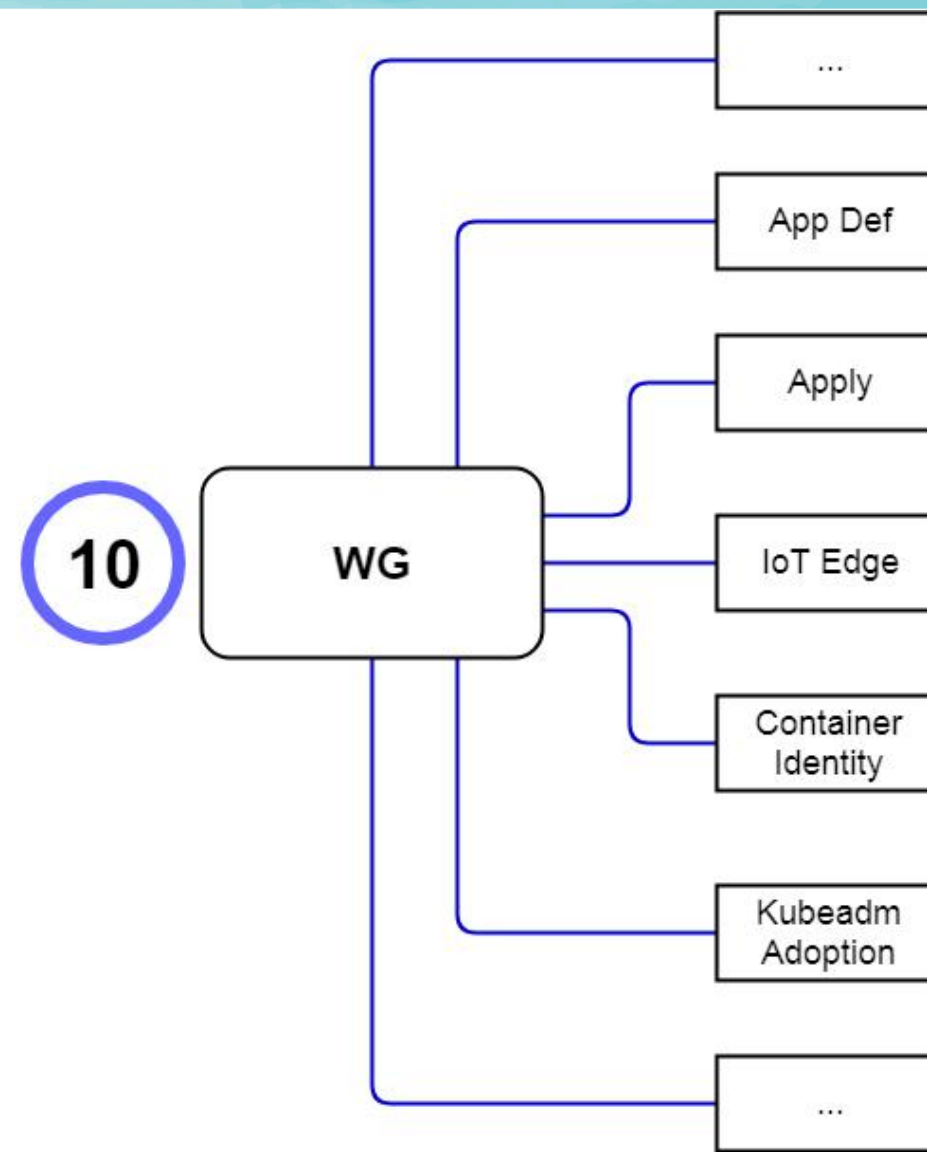
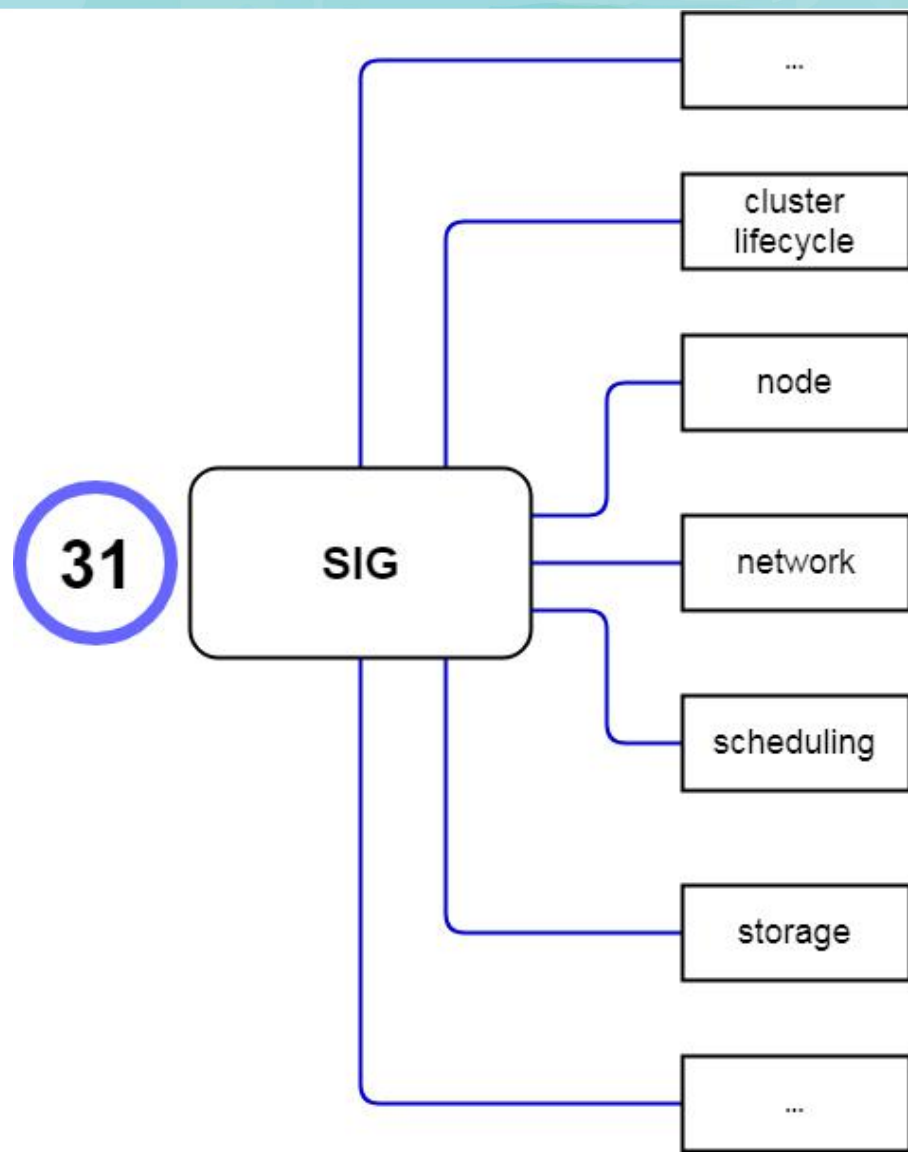


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Communication



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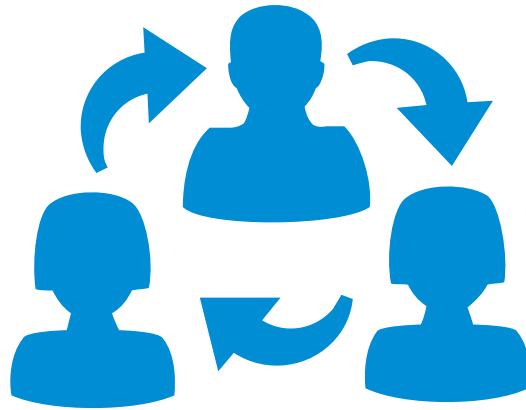
Mailing list

Zoom

Github

Discussion
board

Slack



YouTube
channel

Kubecons
/meetups



related links

Github <https://github.com/kubernetes/kubernetes/issues>

Slack <http://slack.k8s.io/>

YouTube channel <https://www.youtube.com/c/KubernetesCommunity/live>

Mailing list <https://groups.google.com/forum/#!forum/kubernetes-dev>

Zoom <https://zoom.us/my/kubernetescommunity>

Discussion board <https://discuss.kubernetes.io>

Kubecons/meetups We are already here !

Roles

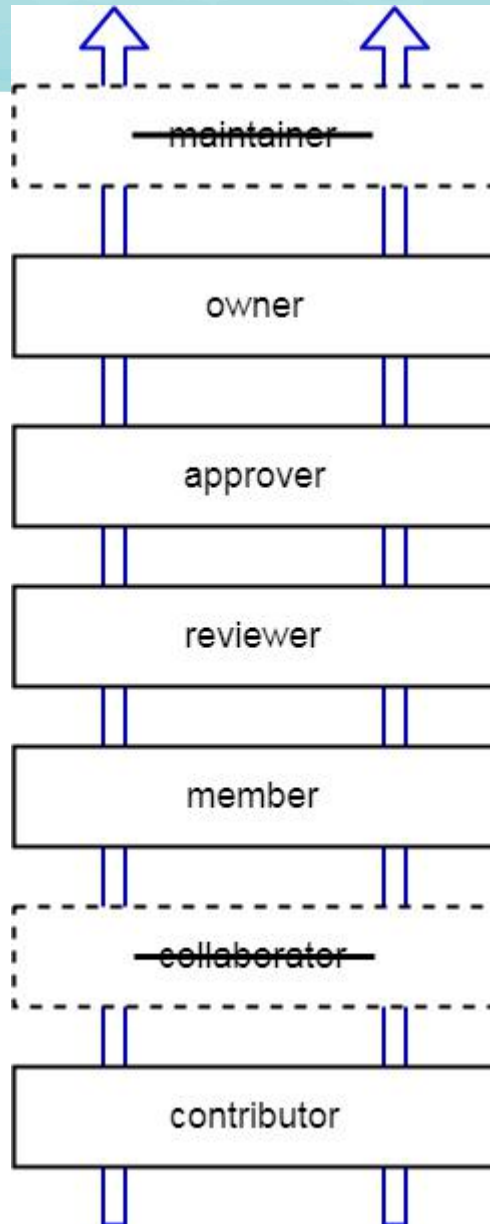


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<https://github.com/kubernetes/community/blob/master/community-membership.md>

<https://github.com/kubernetes/org/issues>

Resources



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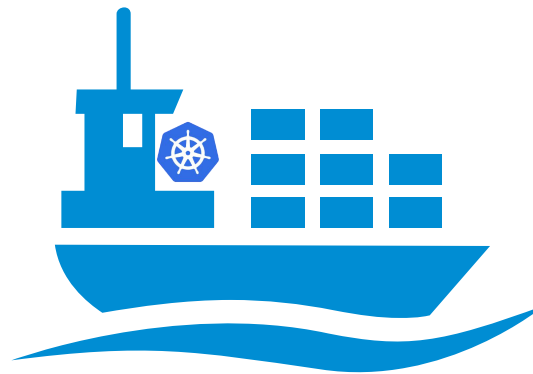
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Docs/blog

Course

Video



Playground

Learning
platform



related links

Docs/blog <https://kubernetes.io>

Course <https://www.edx.org/course/introduction-to-kubernetes>

Video https://www.youtube.com/channel/UCZ2bu0qutTOM0tHYa_jklwg

Playground <https://labs.play-with-k8s.com>

Learning platform <https://www.katacoda.com/courses/kubernetes>

More:

<https://kubernetes.io/docs/tutorials/online-training/overview/>

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Where to



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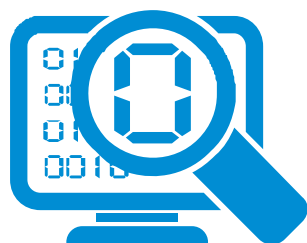
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docs



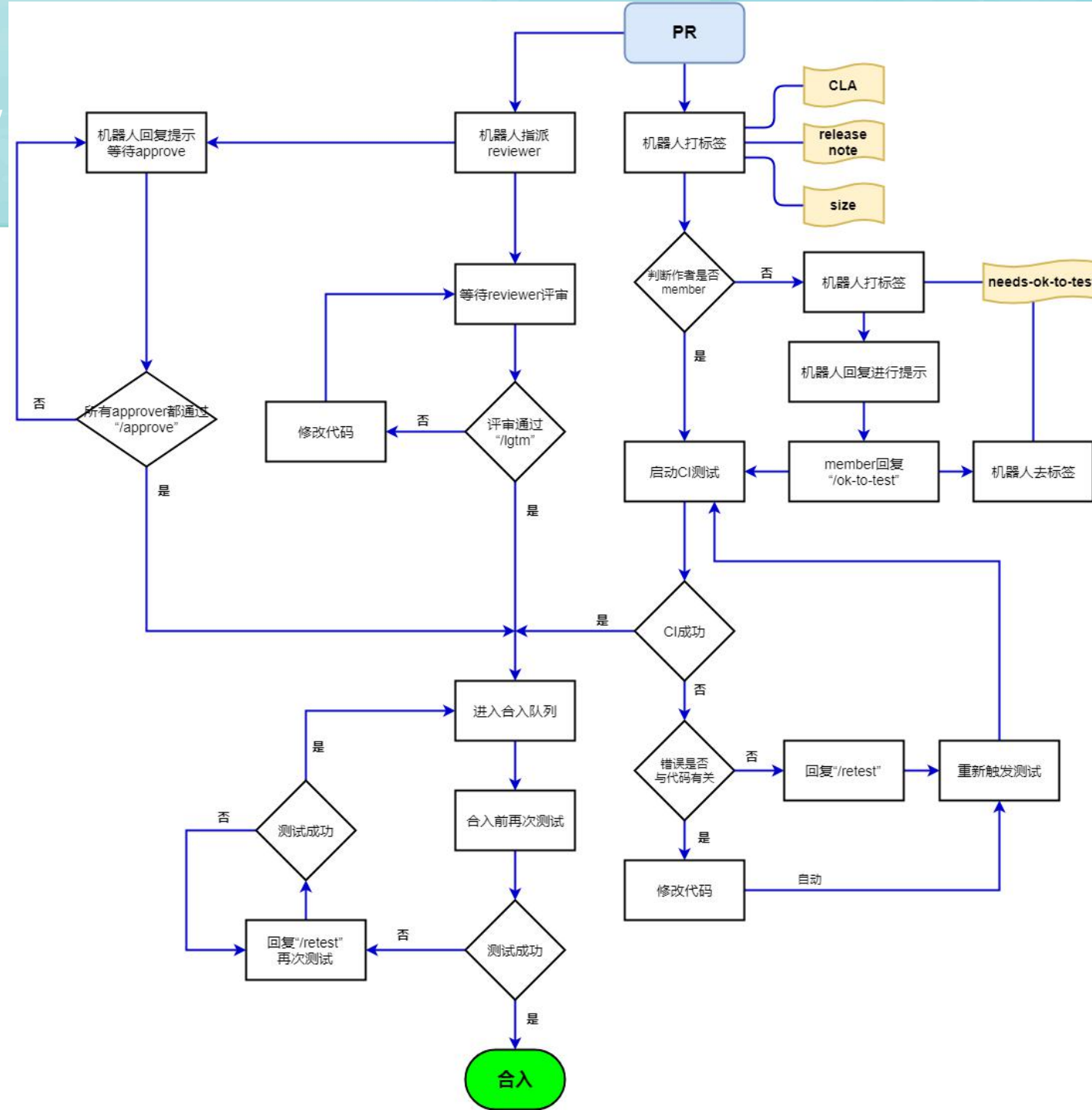
code

bug
report



code
review

PR workflow



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git workflow

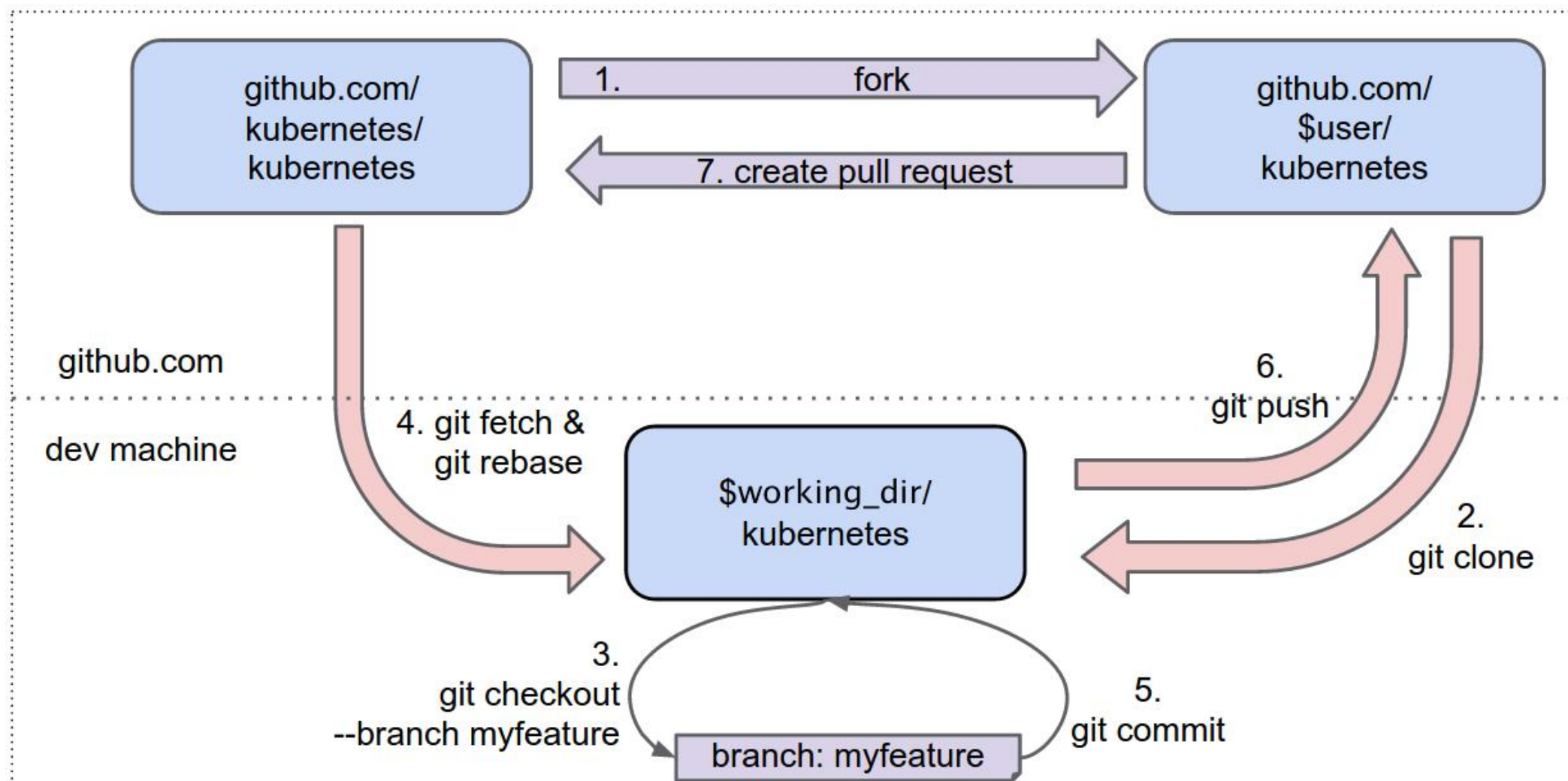


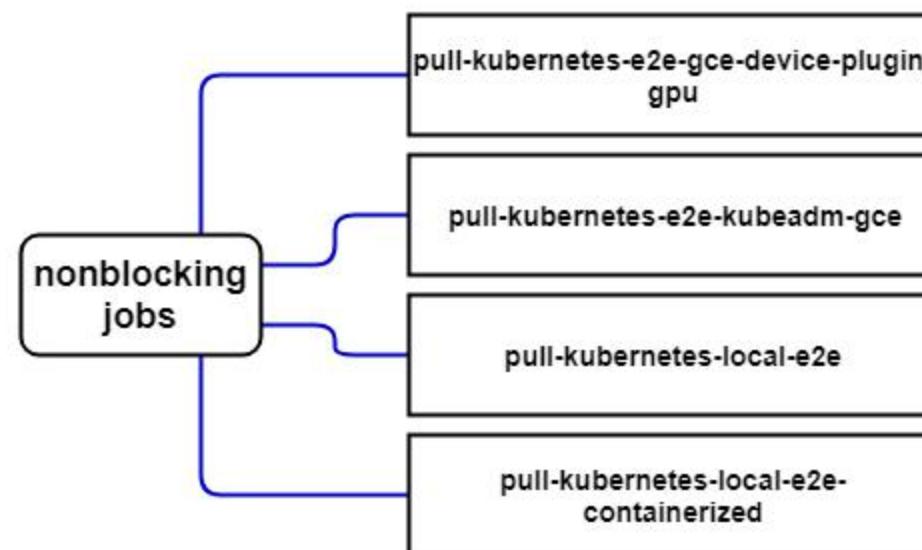
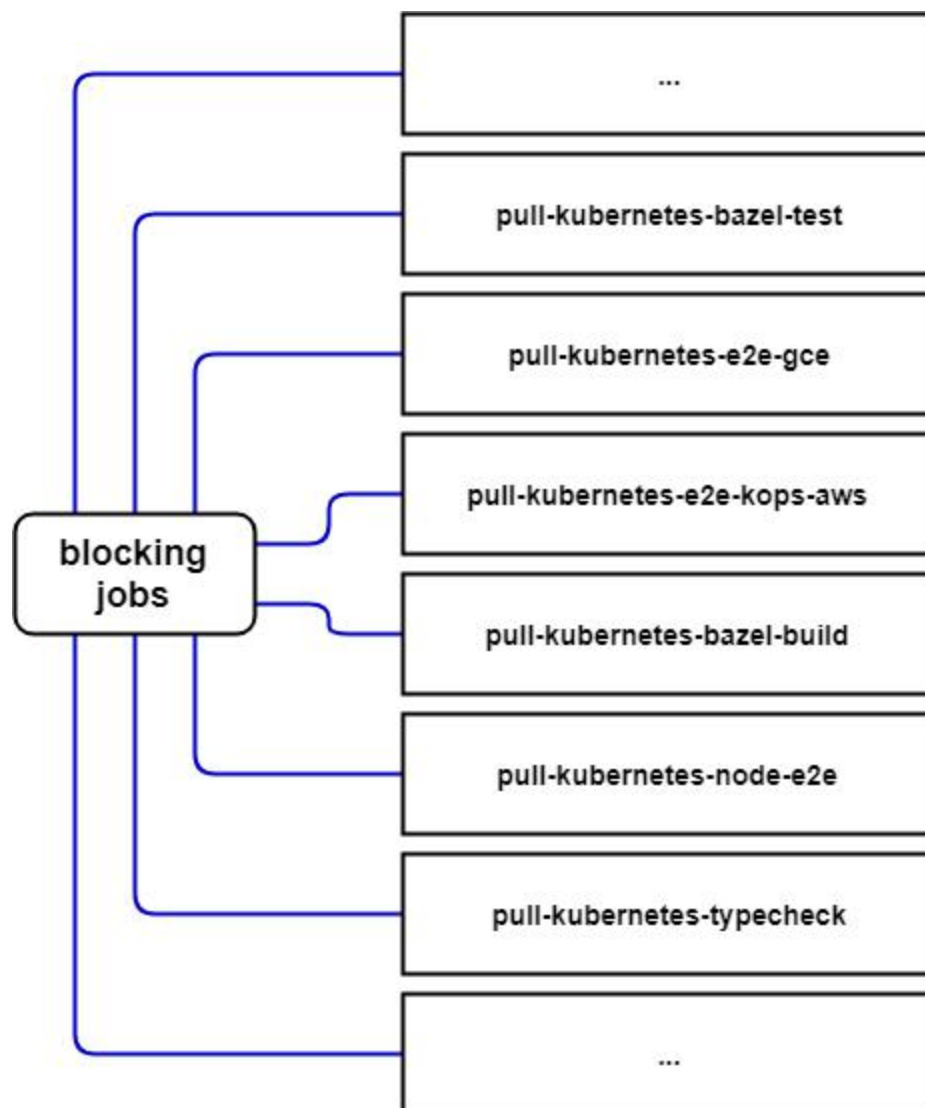
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bot/commands



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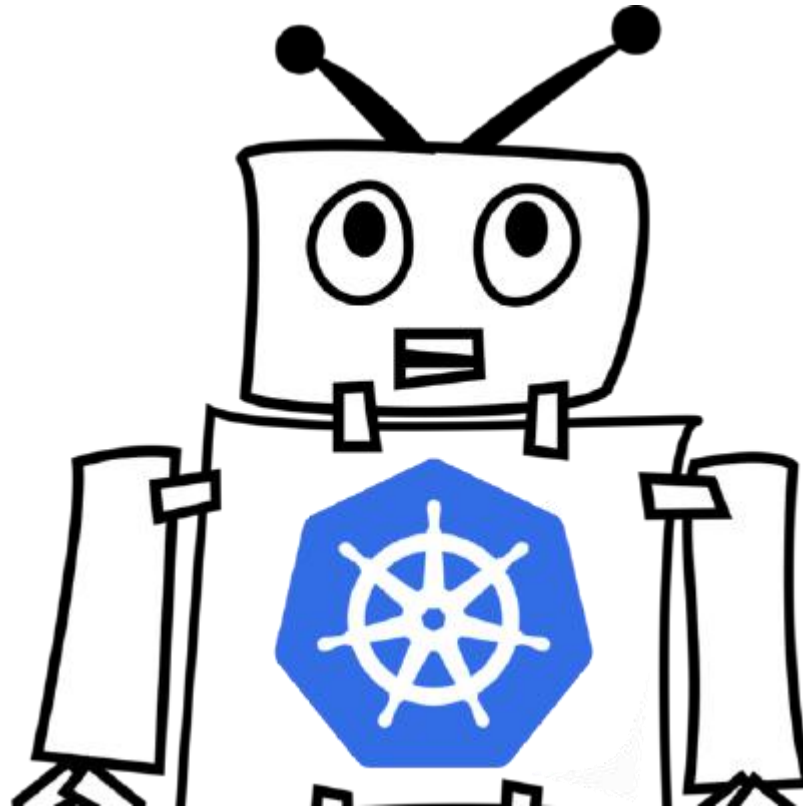
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/approve

/cc

/lgtn

/assign



/retest

/kind bug

/hold

/lint

joke/shrug



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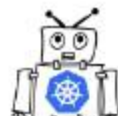
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xiangpengzhao commented a minute ago

/joke



k8s-ci-robot commented a minute ago

@xiangpengzhao: What does a pirate pay for his corn? A buccaneer!

► 详细信息



xiangpengzhao commented a minute ago

/shrug



k8s-ci-robot added the \(\ツ\) label a minute ago

cats vs dogs



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xiangpengzhao commented 13 seconds ago

Member



/meow



k8s-ci-robot commented 12 seconds ago

Member



@xiangpengzhao:



xiangpengzhao commented just now

Member



/woof



k8s-ci-robot commented just now

Member



@xiangpengzhao:

A short demo



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Types of Releases



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- Alpha releases (vX.Y.0-alpha.W): cut directly from master.
- Beta releases (vX.Y.Z-beta.W): cut from their respective release branch, release-X.Y.
- Official releases (vX.Y.Z): cut from their respective release branch, release-X.Y.
- Emergency releases (vX.Y.Z): cut from a new release-X.Y.Z branch based on a tag

Release Schedule



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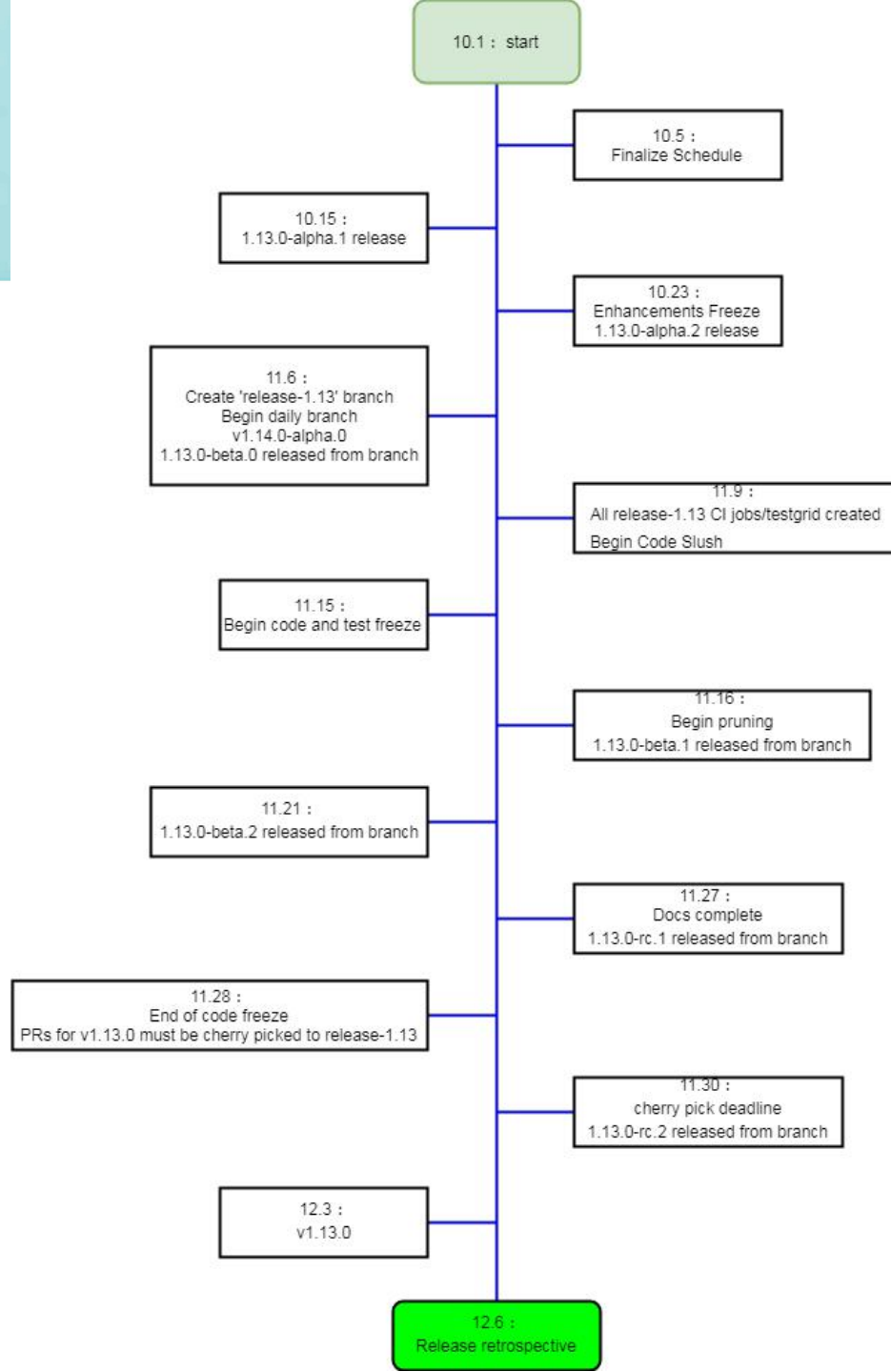


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| Type | Versioning | Branch | Frequency |
|-----------|----------------|---------------|----------------------------|
| alpha | vX.Y.0-alpha.W | master | every ~2 weeks |
| beta | vX.Y.Z-beta.W | release-X.Y | as needed (at branch time) |
| official | vX.Y.Z | release-X.Y | as needed (post beta) |
| emergency | vX.Y.Z | release-X.Y.Z | as needed |

Release1.13



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Branch

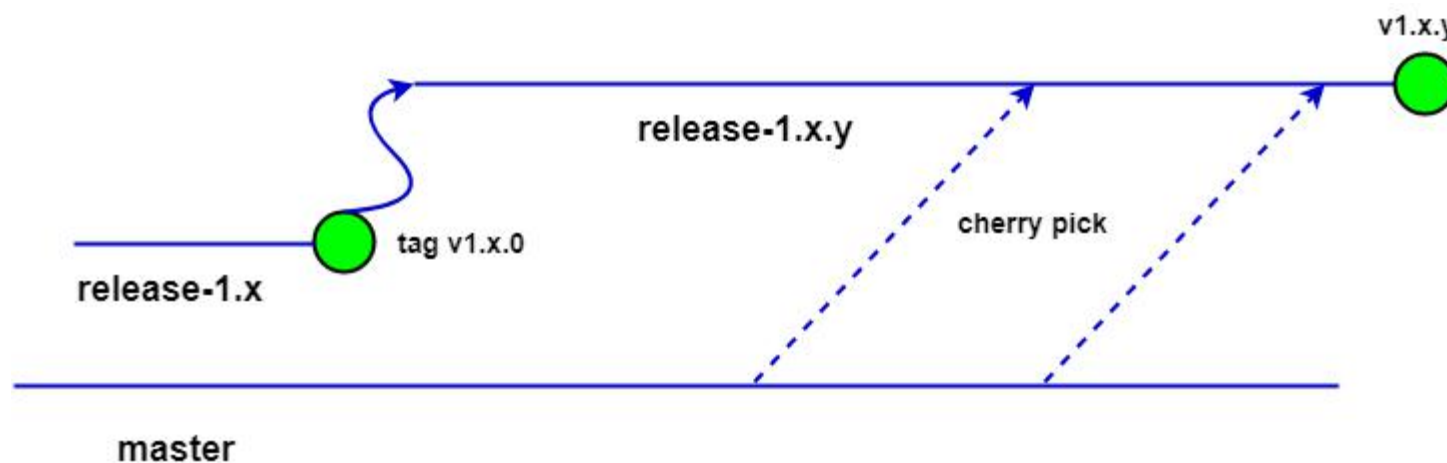
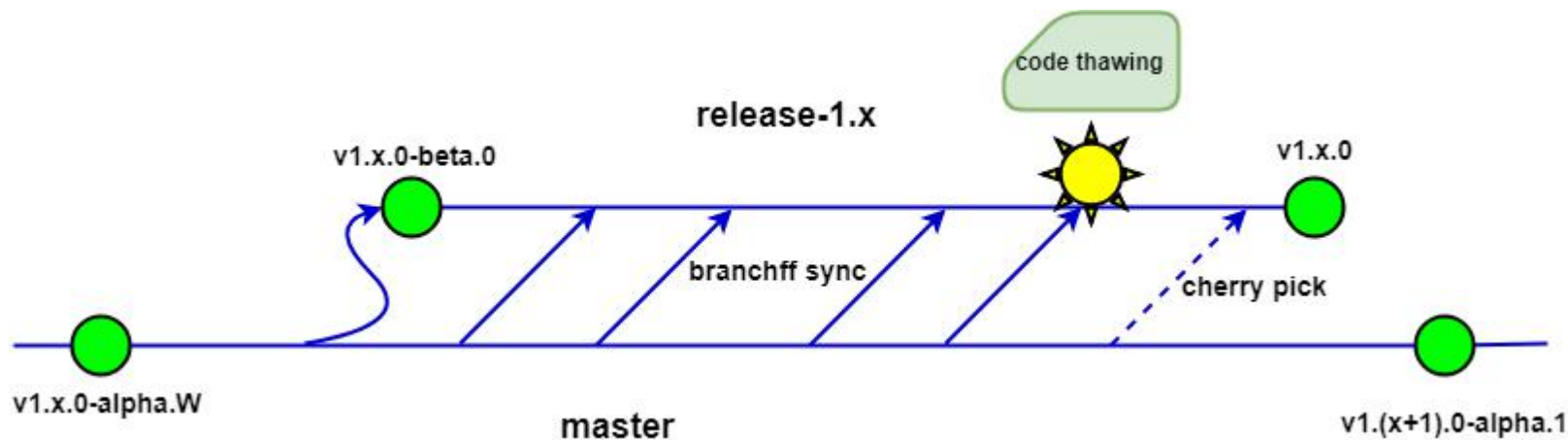


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Supported releases

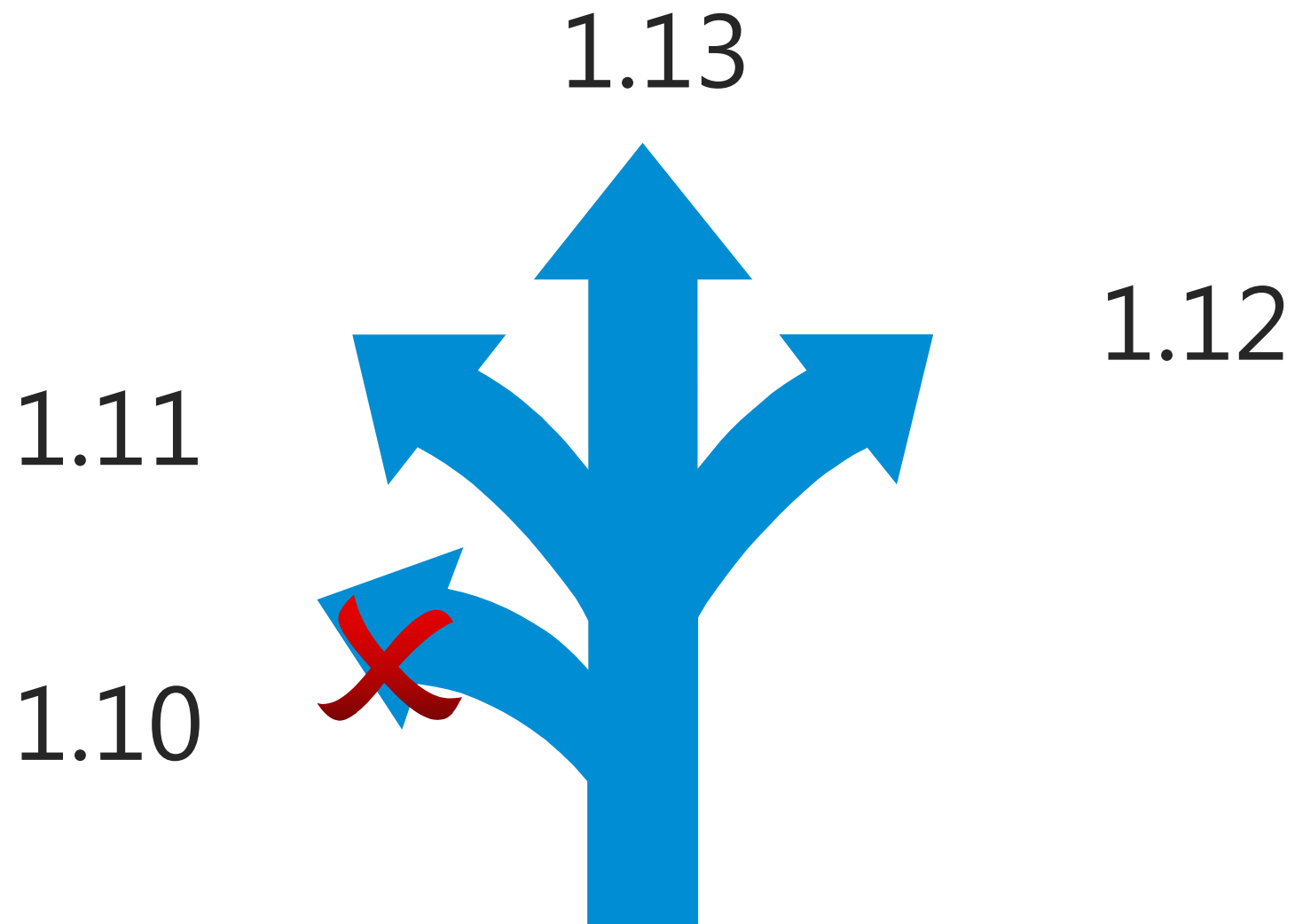


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Table of Solutions



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| IaaS Provider | Config. Mgmt. | OS | Networking |
|------------------------------|---------------|---------------|-------------------------------|
| any | any | multi-support | any CNI |
| Google Kubernetes Engine | | | GCE |
| Stackpoint.io | | multi-support | multi-support |
| AppsCode.com | Saltstack | Debian | multi-support |
| Madcore.Ai | Jenkins DSL | Ubuntu | flannel |
| Platform9 | | multi-support | multi-support |
| Kublr | custom | multi-support | multi-support |
| Kubermatic | | multi-support | multi-support |
| IBM Cloud Kubernetes Service | | Ubuntu | IBM Cloud Networking + Calico |
| Giant Swarm | | CoreOS | flannel and/or Calico |
| GCE | Saltstack | Debian | GCE |
| Azure Kubernetes Service | | Ubuntu | Azure |
| Azure (IaaS) | | Ubuntu | Azure |
| Bare-metal | custom | Fedora | none |
| Bare-metal | custom | Fedora | flannel |
| libvirt | custom | Fedora | flannel |
| KVM | custom | Fedora | flannel |
| DCOS | Marathon | CoreOS/Alpine | custom |
| AWS | CoreOS | CoreOS | flannel |
| GCE | CoreOS | CoreOS | flannel |
| Vagrant | CoreOS | CoreOS | flannel |
| CloudStack | Ansible | CoreOS | flannel |
| VMware vSphere | any | multi-support | multi-support |
| Bare-metal | custom | CentOS | flannel |
| lxd | Juju | Ubuntu | flannel/canal |
| AWS | Juju | Ubuntu | flannel/calico/canal |
| Azure | Juju | Ubuntu | flannel/calico/canal |
| GCE | Juju | Ubuntu | flannel/calico/canal |
| Oracle Cloud | Juju | Ubuntu | flannel/calico/canal |
| Rackspace | Juju | Ubuntu | flannel/calico/canal |
| VMware vSphere | Juju | Ubuntu | flannel/calico/canal |
| Bare Metal | Juju | Ubuntu | flannel/calico/canal |
| AWS | Saltstack | Debian | AWS |
| AWS | kops | Debian | AWS |
| Bare-metal | custom | Ubuntu | flannel |
| oVirt | | | |

<https://kubernetes.io/docs/setup/pick-right-solution/>

Which one should I pick ?

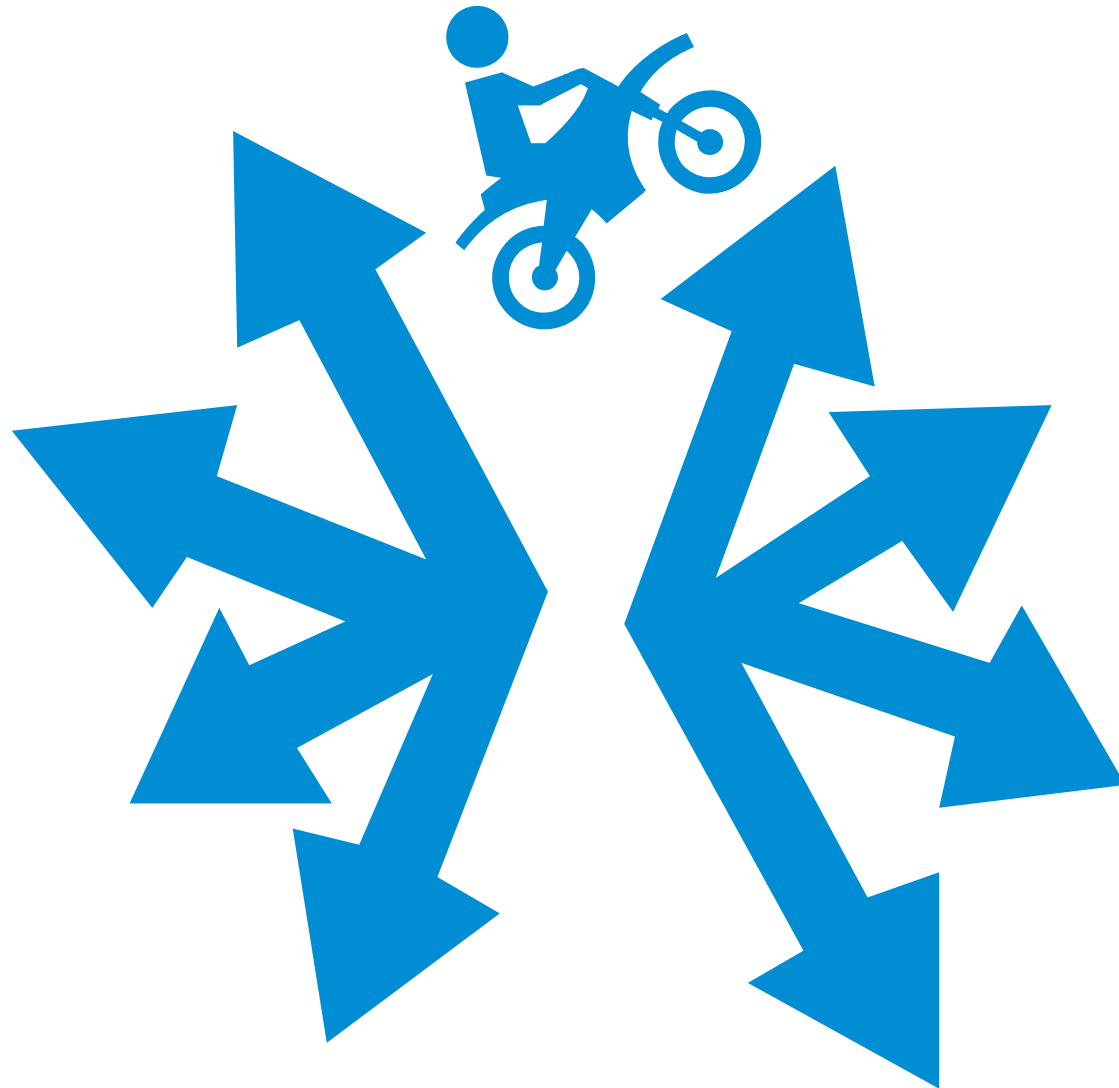


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I'm a user of some Cloud

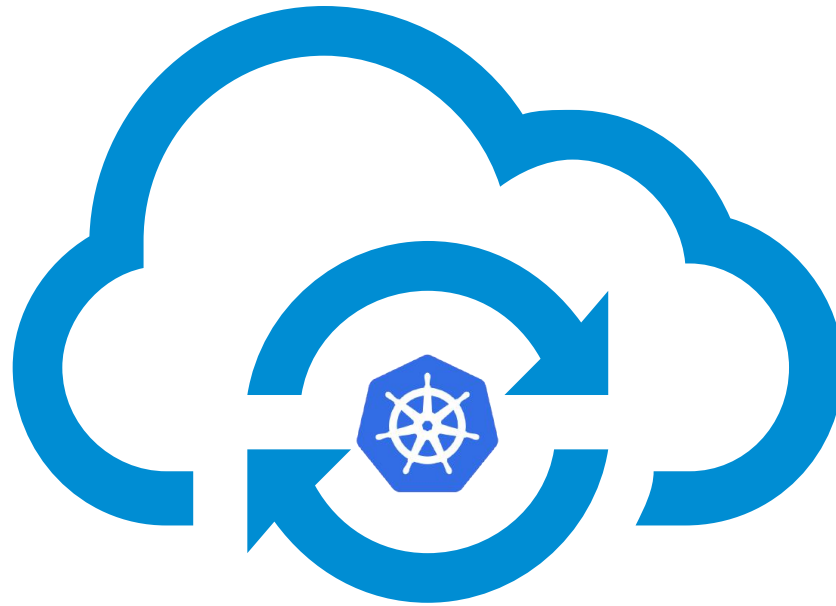


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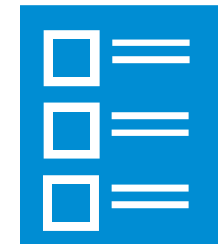


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Just follow its instructions !



I have only a local machine

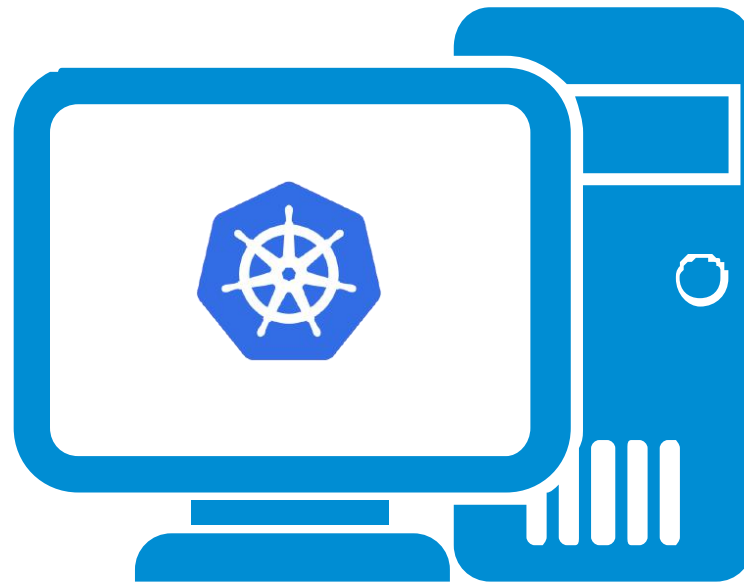


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You need an easy way !

Local-machine Solutions



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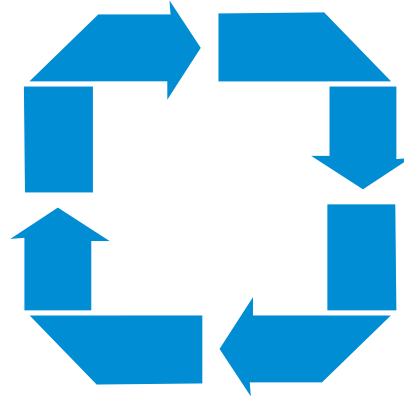
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kubeadm-dind-cluster

kubeadm

Minikube



local-up-cluster

microk8s

Local-machine Solutions



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related links

local-up-cluster <https://github.com/kubernetes/kubernetes/blob/master/hack/local-up-cluster.sh>

Minikube <https://github.com/kubernetes/minikube>

Kubeadm <https://kubernetes.io/docs/setup/independent/install-kubeadm>

kubeadm-dind-cluster <https://github.com/kubernetes-sigs/kubeadm-dind-cluster>

microk8s <https://microk8s.io/>

My machine can't run Kubernetes...

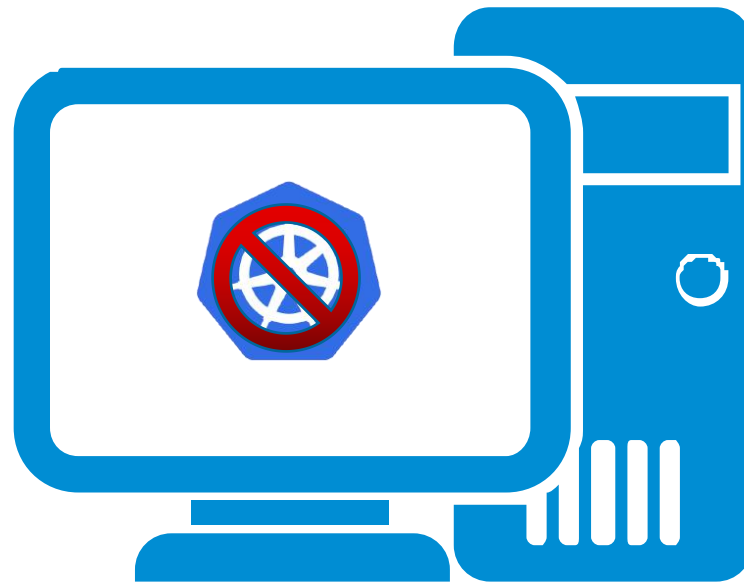


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Oops !

Online playgrounds !



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Play with Kubernetes

<https://labs.play-with-k8s.com/>

Online playgrounds !



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<https://www.katacoda.com/courses/kubernetes>

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Demo



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Q & A



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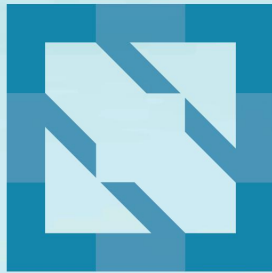
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Thank you !



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