



THE LINUX FOUNDATION

NORTH AMERICA



Kubernetes cluster creation landscape – The easy and the hard ways

Wendy Ha - SEEK





Wendy Ha

Melbourne, Australia



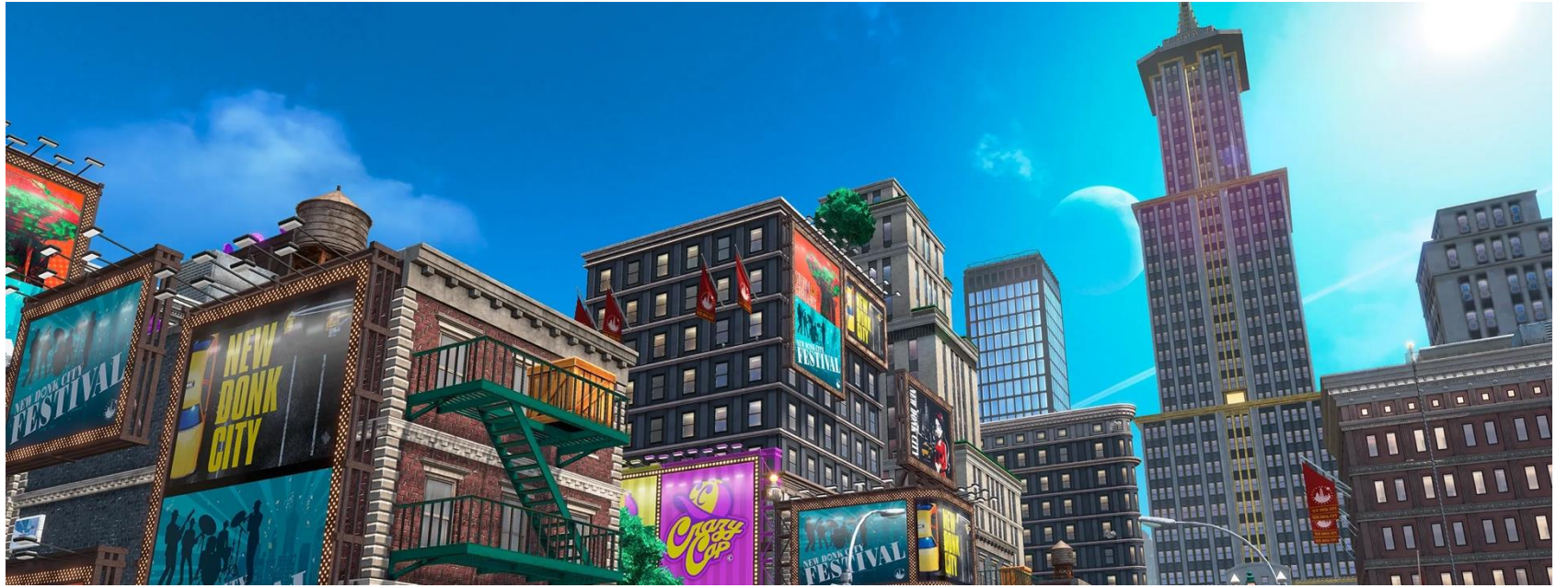
Kubernetes Contributor

SIG Etc - SIG Cluster Life Cycle – SIG Release

CNCF Ambassador











Agenda



How To Create Kubernetes Cluster



Certified Kubernetes Software Conformance



Kubernetes SIG Cluster Lifecycle



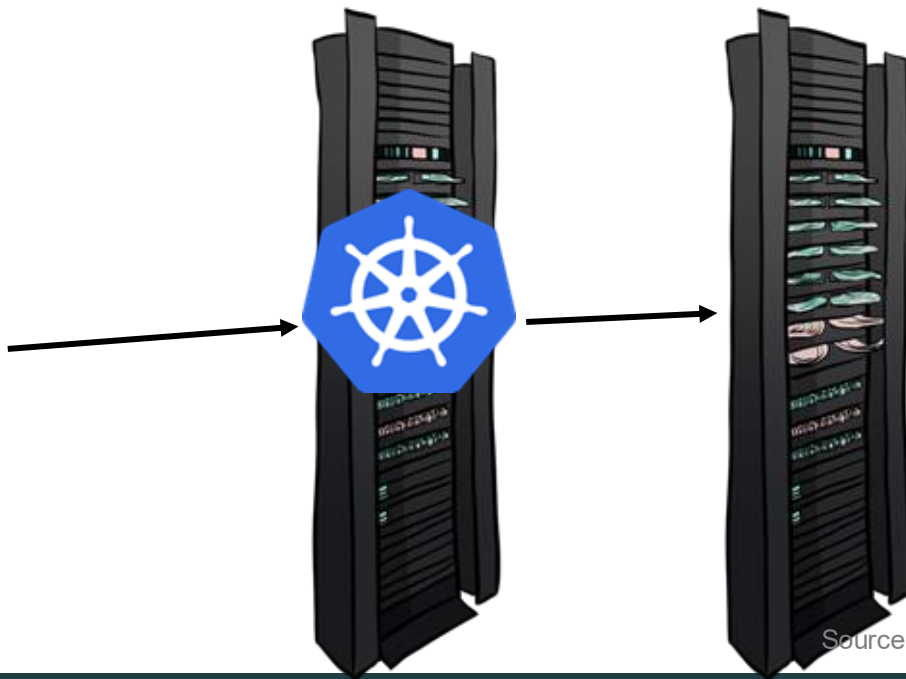
Get Involve!

Kubernetes in a Nutshell



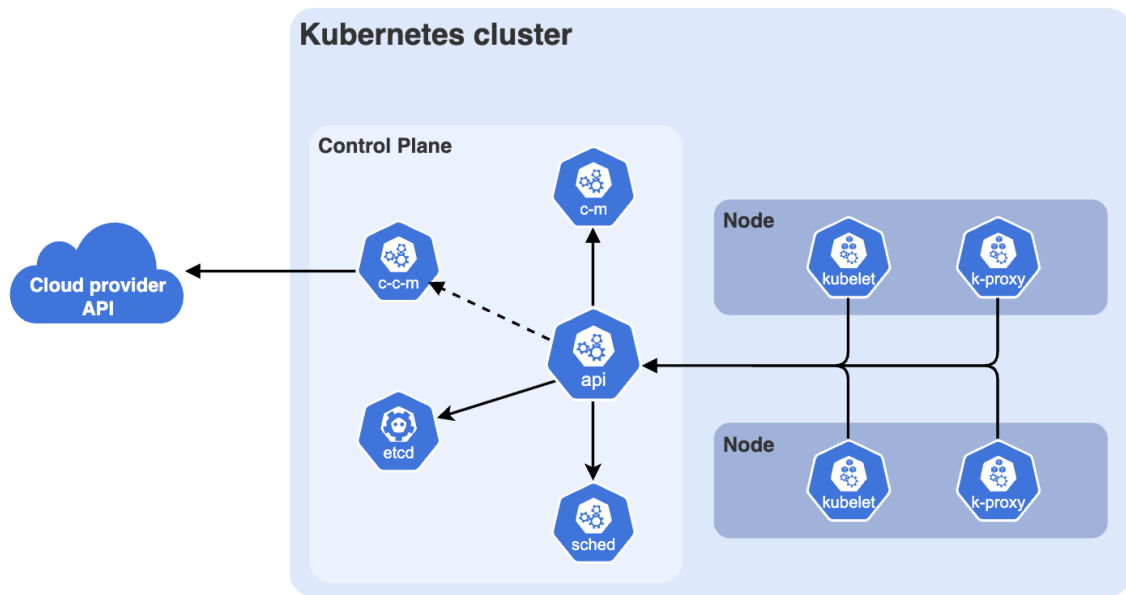
App










(The thing you want to run)



Source: Kubernetes New Contributor Orientation

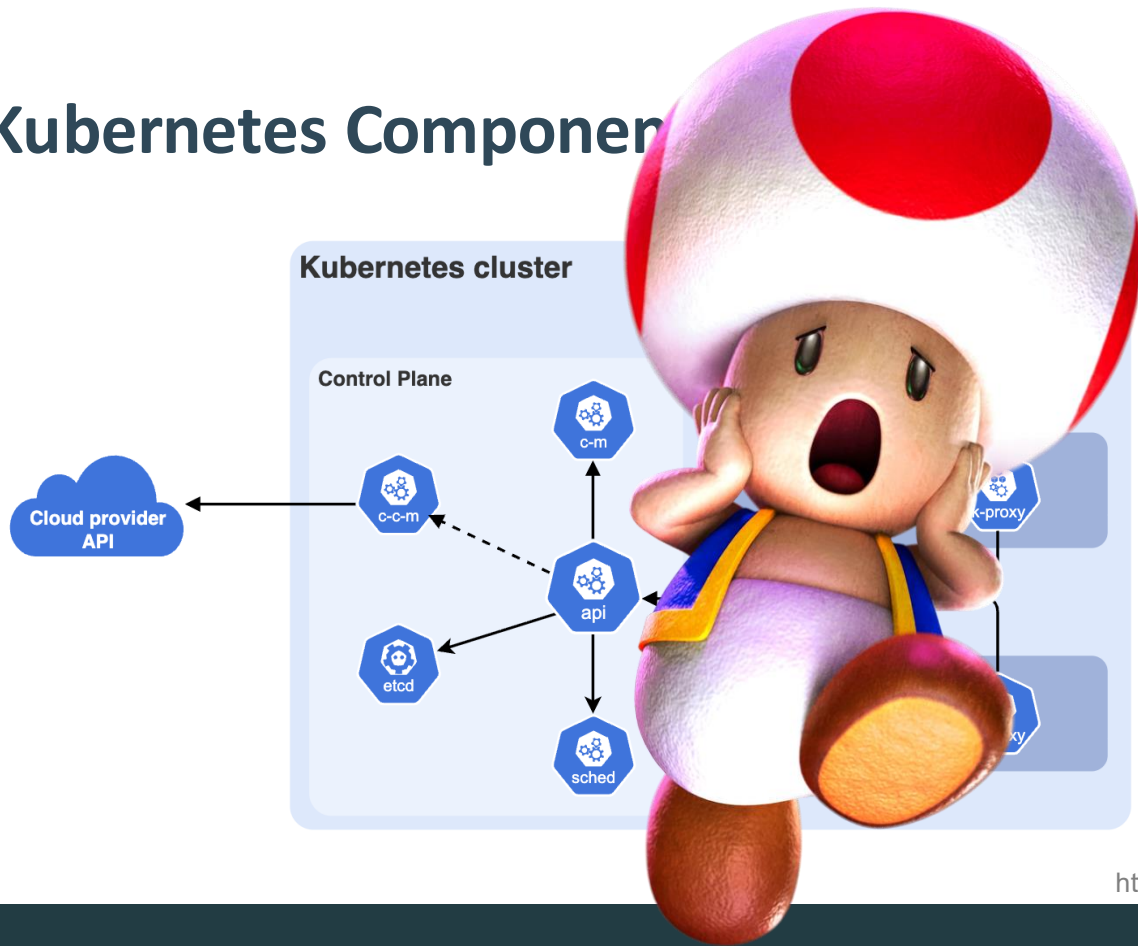
Kubernetes Components












-  **API Server**
-  **Cloud Controller Manager** (*optional*)
-  **Controller Manager**
-  **etcd** (persistence store)
-  **kubelet**
-  **kube-proxy**
-  **Scheduler**
-  **Node**
-  **Control Plane**

<https://kubernetes.io/docs/concepts/overview/components/>

Kubernetes Components

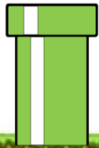


-  API Server
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-  Control Plane

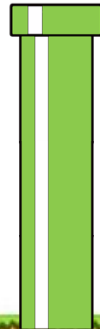
<https://kubernetes.io/docs/concepts/overview/components/>

How to Create Kubernetes Cluster

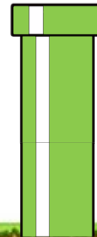
Local
Development



Self-managed
and Production
Tools



Managed
Cloud
Services



Kubernetes
the Hard
Way



How to Create Kubernetes Cluster

Local Development



k0s



K3S



minikube

Simple setup of a single-node
Kubernetes cluster for local
development.

Ideal for testing and experimentation.

Not suitable for production

Local Development



k0S

k0s **CNCF** **SANDBOX** 2025

Cloud Native Computing Foundation (CNCF)

Orchestration & Management

Scheduling & Orchestration

k0s - The Zero Friction Kubernetes

ADDITIONAL CATEGORIES

Platform / Certified Kubernetes - Distribution

Maturity

2025-01-19

SANDBOX

INCUBATING

- Website: k0sproject.io
- GitHub repository: [k0sproject/k0s](https://github.com/k0sproject/k0s)
- GitHub stars: 6,000+
- Key developer: Mirantis
- Supported K8s versions: v1.35

```
# Download k0s
curl --proto '=https' --tlsv1.2 -sSf https://get.k0s.sh | sudo sh
# Install k0s as a service
k0s install controller --single
# Start k0s as a service
k0s start
# Access the cluster using kubectl
k0s kubectl get nodes
```

Local Development



MicroK8s

MicroK8s

Canonical

Platform

Certified Kubernetes - Distribution

An easy to install, single node local Kubernetes.

- Website: microk8s.io
- GitHub repository: [ubuntu/microk8s](https://github.com/ubuntu/microk8s)
- GitHub stars: 9,000+
- Key developer: Canonical
- Supported K8s versions: v1.35

```
# snap install microk8s --classic
# microk8s start
# microk8s kubectl get nodes
# microk8s enable dns
# microk8s status
microk8s is running
high-availability: no
  datastore master nodes: 127.0.0.1:19001
  datastore standby nodes: none
addons:
  enabled:
  dns
...
```

Local Development



k3s **CNCF** **SANDBOX** 2020

Cloud Native Computing Foundation (CNCF)

Platform

Certified Kubernetes - Distribution

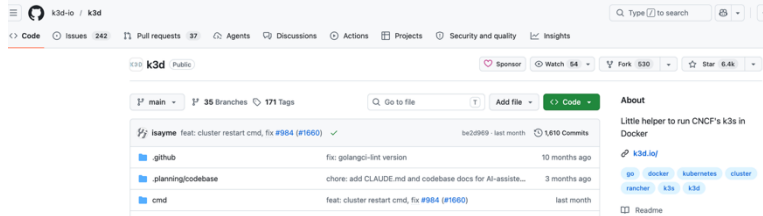
Lightweight Kubernetes

Maturity

2020-08-19

SANDBOX

INCUBATING



- Website: k3s.io
- GitHub repository: [k3s-io/k3s](https://github.com/k3s-io/k3s)
- GitHub stars: 33,000+
- Key developer: CNCF (Rancher)
- Supported K8s versions: v1.36

- Website: k3d.io
- GitHub repository: [rancher/k3d](https://github.com/rancher/k3d)
- GitHub stars: 6,000+
- Key developer: CNCF (Rancher)

Local Development



kind

Cloud Native Computing Foundation (CNCF)

Platform

Certified Kubernetes - Installer

kind creates local multi-node Kubernetes clusters using Docker container nodes.

Repositories

kubernetes-sigs/kind (primary)

Kubernetes **IN** Docker



- Website: kind.sigs.k8s.io
- GitHub repository: [kubernetes-sigs/kind](https://github.com/kubernetes-sigs/kind)
- GitHub stars: 15,000+
- Key developer: A sub project of **Kubernetes SIG Testing**
- Supported K8s versions: v1.35

```
// Create cluster  
go install sigs.k8s.io/kind@v0.31.0 && kind create cluster
```

Local Development



minikube

Cloud Native Computing Foundation (CNCF)

Platform

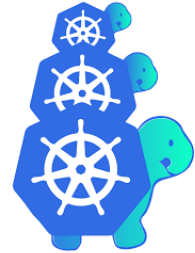
Certified Kubernetes - Installer

minikube runs a local Kubernetes cluster on macOS, Linux, and Windows.

- Website: minikube.sigs.k8s.io
- GitHub repository: [kubernetes/minikube](https://github.com/kubernetes/minikube)
- GitHub stars: 31,000+
- Key developer: A sub project of **Kubernetes SIG Cluster Lifecycle**
- Supported K8s versions: v1.35

How to Create Kubernetes Cluster

Self-managed and Production Tools



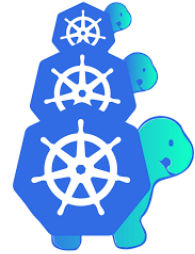
More control over cluster configuration. Suitable for on-premises deployments or custom environments.

Increased operational overhead. Requires a deeper understanding of Kubernetes components.

<https://kubernetes.io/docs/setup/production-environment/tools/>

How to Create Kubernetes Cluster

Self-managed and Production Tools



Sub projects of **Kubernetes SIG Cluster Lifecycle**

Self-managed and Production Tools



The official tool for bootstrapping a
Kubernetes cluster according to
best practices

- 🟡 **Github repository:** <https://github.com/kubernetes/kubeadm>
- 🟡 **Github stars:** 4,000+
- 🟡 **Core Philosophy:** Focused purely on the "Kubernetes layer".
It does not provision your servers, networking, or storage.
- 🟢 **Best for:** Kubernetes **bare-metal installations** or as a
complement to any other tooling a user may employ during a
manual setup.

Self-managed and Production Tools



Kubespray

Cloud Native Computing Foundation (CNCF)

Platform

Certified Kubernetes - Installer

Deploy a Production Ready Kubernetes Cluster

A collection of Ansible playbooks used to deploy production-ready clusters.



Github repository: <https://github.com/kubernetes-sigs/kubespray>



Github stars: 18,000+



Core Philosophy: Flexibility. It can run on almost any OS or environment. It uses kubeadm internally for the core K8s setup but adds layers for networking (CNI) and storage.



Best for: Organizations already using **Ansible** or those needing to deploy across multiple different platforms (e.g., hybrid cloud and bare metal).

Self-managed and Production Tools



kOps

Cloud Native Computing Foundation (CNCF)

Platform

Certified Kubernetes - Installer




kOps is open-source, community-maintained tooling for production-grade Kubernetes cluster installation, management and upgrades.


An automated provisioning tool designed to be the "easiest way" to get a production cluster **running in the cloud**.

 **Github repository:**

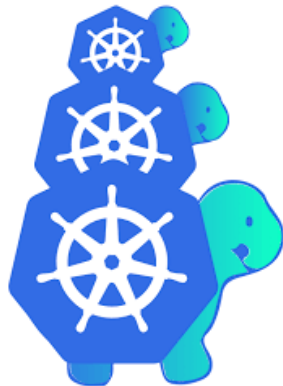
<https://github.com/kubernetes/kops>

 **Github stars:** 16,000+

 **Core Philosophy:** Opinionated and tightly integrated with cloud providers.

 **Best for:** Teams running exclusively on AWS or GCP who want an "install and forget" experience for infrastructure and cluster management.

Self-managed and Production Tools



“

Provision of declarative APIs for cluster creation, configuration, and management.

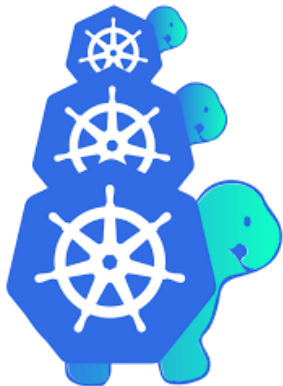
”

[The Cluster API Book](#)

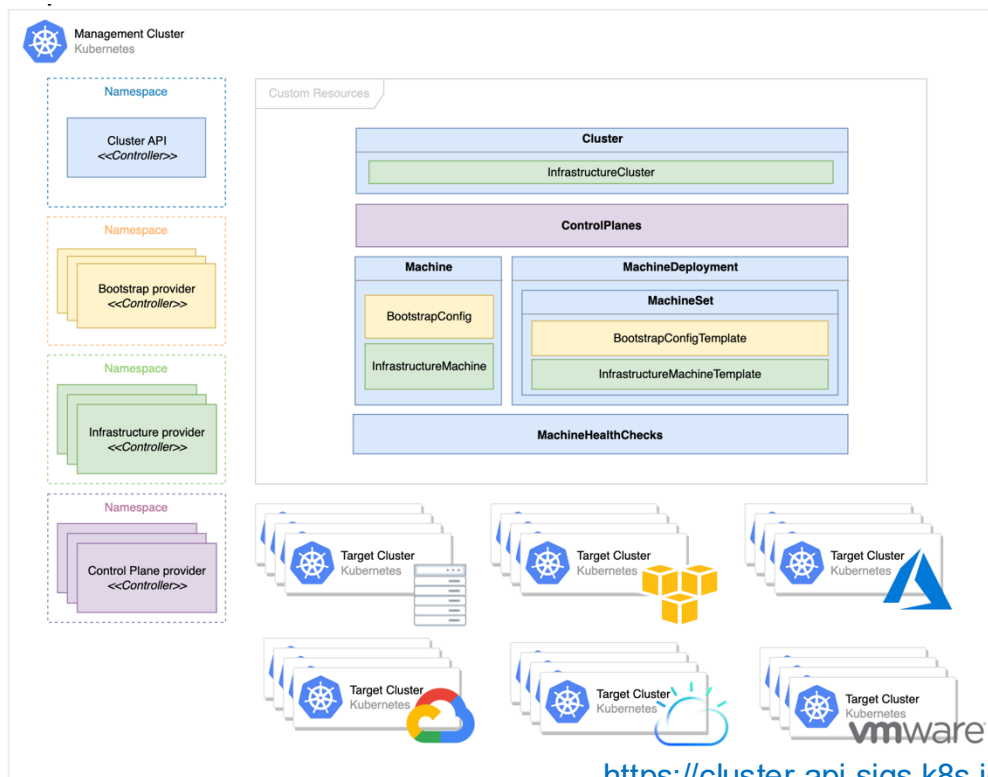
SIG-cluster-lifecycle:

- Github: <https://github.com/kubernetes-sigs/cluster-api>
- Github Stars: 4,000+
- Initial release: April 2019
- API: v1beta1

Self-managed and Production Tools

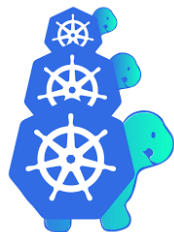


Cluster API Concept



<https://cluster-api.sigs.k8s.io/user/concepts>

Self-managed and Production Tools



Cluster API Providers

Bootstrap

- Amazon Elastic Kubernetes Service (EKS)
- Canonical Kubernetes Platform
- k0smotron/k0s
- K3s
- Kubeadm
- MicroK8s
- RKE2
- Talos

Control Plane

- Canonical Kubernetes Platform
- Hosted Control Plane
- k0smotron/k0s
- K3s
- Kamaji
- Kubeadm
- MicroK8s
- Nested
- RKE2
- Talos

Infrastructure

- Akamai (Linode)
- AWS
- Azure
- Azure Stack HCI
- Bring Your Own Host (BYOH)
- CloudStack
- CoxEdge
- DigitalOcean
- Google Cloud Platform (GCP)
- Harvester
- Hetzner
- Hivelocity
- Huawei Cloud
- IBM Cloud
- IONOS Cloud
- KubeKey
- k0smotron RemoteMachine (SSH)
- KubeVirt
- MAAS
- Metal3
- metal-stack
- Microvm
- Nested
- Nutanix

IP Address Management (IPAM)

- In Cluster
- Nutanix
- Metal3

Addon

- Fleet
- Helm
- Cdk8s

Runtime Extensions

- Nutanix

API Adopters

Following are the implementations managed by third-parties adopting the standard cluster-api and/or machine-api being developed here.

- Gardener Machine controller manager
- Kubermatic machine controller
- OpenShift Machine API Operator

<https://cluster-api.sigs.k8s.io/reference/providers>

The image shows a screenshot of a webinar slide. The slide has a white background with a large green and blue diagonal graphic on the left side. The title 'Cluster API' is in blue. Below it, the subtitle 'A Kubernetes subproject to simplify cluster lifecycle management' is in green. The speaker information is in black text: 'Katie Gamanji - CNCF Technical Oversight Committee & Cloud Platform Engineer, American Express' and 'Naadir Jeewa - Maintainer, Cluster API Provider AWS & Senior Member of Technical Staff, VMware'. The date '11 June 2020' is at the bottom right. A small video feed of a man is in the top right corner of the slide frame. The browser's address bar and navigation icons are visible at the top.

Cluster API

A Kubernetes subproject to simplify cluster lifecycle management

Katie Gamanji - CNCF Technical Oversight Committee & Cloud Platform Engineer, American Express

Naadir Jeewa - Maintainer, Cluster API Provider AWS & Senior Member of Technical Staff, VMware

11 June 2020

Webinar: Cluster API (CAPI) - A Kubernetes subproject to simplify cluster lifecycle management



CNCF [Cloud Native Computing Foundation]
138k subscribers

Subscribe

125



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Ask

Save

Download



[CNCF Webinar: Cluster API \(CAPI\) - A Kubernetes subproject to simplify cluster lifecycle management](#)

How to Create Kubernetes Cluster

Managed Kubernetes Services



What it is?

A service offered by infrastructure providers, allowing customers to spin up a **Kubernetes cluster on-demand**.

The cloud provider takes responsibility for managing part of the Kubernetes cluster, usually called the control plane. They are similar to distributions but managed by the cloud provider on their infrastructure.

Allows teams to get started with Kubernetes **without knowing** or doing anything beyond setting up an account with a cloud vendor.

<https://landscape.cncf.io/guide#platform--certified-kubernetes-hosted>

Shared Responsibility Model

Self-managed Kubernetes

Managed Kubernetes Services

Customer
Responsibility

System Agents, Kubelet, Container Runtime

System Agents, Kubelet, Container Runtime

Cluster Instances
(Lifecycle, OS, Patching, Monitoring, Health)

Cluster Instances
(Lifecycle, OS, Patching, Monitoring, Health)

Cluster Capabilities

Cluster Capabilities

Kubernetes
Control Plane

Etcd

API
Server

Controller
Manager

Scheduler

Kubernetes
Control Plane

Etcd

API
Server

Controller
Manager

Scheduler

Foundation
Services

Compute

Storage

Networking

Monitoring

Foundation
Services

Compute

Storage

Networking

Monitoring

Cloud Provider
Global
Infrastructure

Regions

Local Zones

Edge
Locations

Cloud Provider
Global
Infrastructure

Regions

Local Zones

Edge
Locations

More

Customer Responsibility

Less

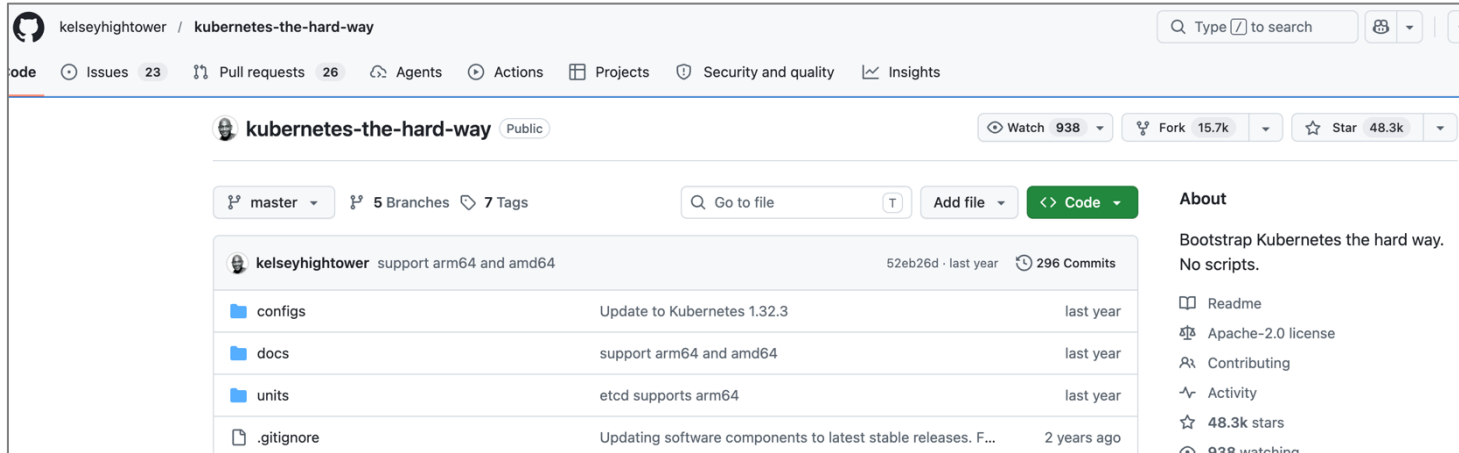
More

Customizable

Less

How to Create Kubernetes Cluster

Kubernetes The Hard Way



The screenshot shows the GitHub repository page for 'kubernetes-the-hard-way' by kelseyhightower. The repository is public and has 938 watchers, 15.7k forks, and 48.3k stars. The current branch is 'master', with 5 branches and 7 tags. The repository contains several files and folders:

File/Folder	Description	Last Update
configs	Update to Kubernetes 1.32.3	last year
docs	support arm64 and amd64	last year
units	etcd supports arm64	last year
.gitignore	Updating software components to latest stable releases. F...	2 years ago

The repository also includes a commit history table:

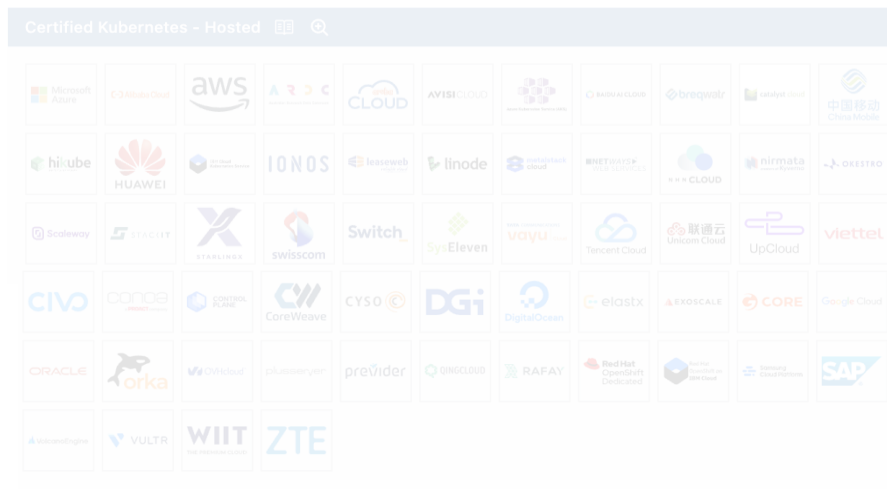
Commit	Author	Message	Time
52eb26d	kelseyhightower	support arm64 and amd64	last year

The repository has 296 commits. The 'About' section describes the project as 'Bootstrap Kubernetes the hard way. No scripts.' and lists resources like the README, Apache-2.0 license, and contributing guidelines.

<https://github.com/kelseyhightower/kubernetes-the-hard-way>

How to Create Kubernetes Cluster

Managed Kubernetes Services



What it is?

A service offered by infrastructure providers, allowing customers to spin up a **Kubernetes cluster on-demand**.

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Allows teams to get started with Kubernetes **without knowing** or doing anything beyond setting up an account with a cloud vendor.

<https://landscape.cncf.io/guide#platform--certified-kubernetes-hosted>

Certified Kubernetes Conformance Program



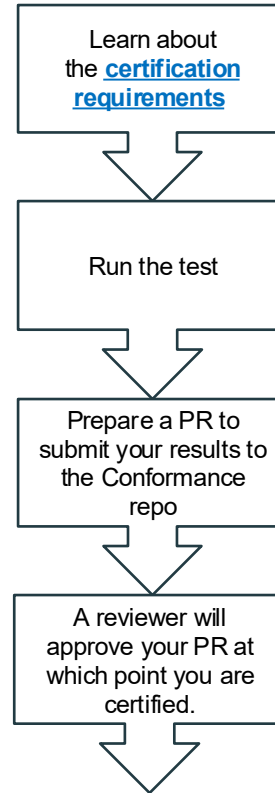


Ensure that all Kubernetes distributions, hosted platforms, and installers support the required APIs and core behaviours, **guaranteeing workload portability**, consistency, and interoperability **across different providers**.

- Website: <https://www.cncf.io/training/certification/software-conformance/>
- Conformance repo: <https://github.com/cncf/k8s-conformance/tree/master>

How to get certified

The screenshot shows a GitHub pull request interface. At the top, the repository is identified as 'cncf / k8s-conformance'. The pull request title is 'Update conformance results for v1.34/ibm-openshift #4239'. It is marked as 'Merged' by 'taylorwaggoner' 3 days ago. The pull request description states: 'Red Hat OpenShift on IBM Cloud conformance results for version 4.21.13. Signed-off-by: Máté Lajkó mate.lajko@ibm.com'. The pull request is reviewed and approved by 'taylorwaggoner'. A comment from 'kubernetes-conformance-bot' indicates that all 15 requirements have passed. The right sidebar shows labels such as 'conformance-product-submission', 'no-failed-tests-v1.34', 'release-documents-checked', and 'release-v1.34'. A notification at the bottom of the pull request says 'You are now Certified Kubernetes'.



<https://www.cncf.io/training/certification/software-conformance/#how>

Look for products that proudly display the Certified Kubernetes logo

The following products have earned Certified Kubernetes status:



<https://www.cncf.io/training/certification/software-conformance/#logos>

Certified platforms are listed on the official [Certified Kubernetes Platform](#) directory.

The certification is **valid for one year** and **must be renewed**.

The Spreadsheet of all Kubernetes offerings and their certification status

Kubernetes Distributions & Platforms

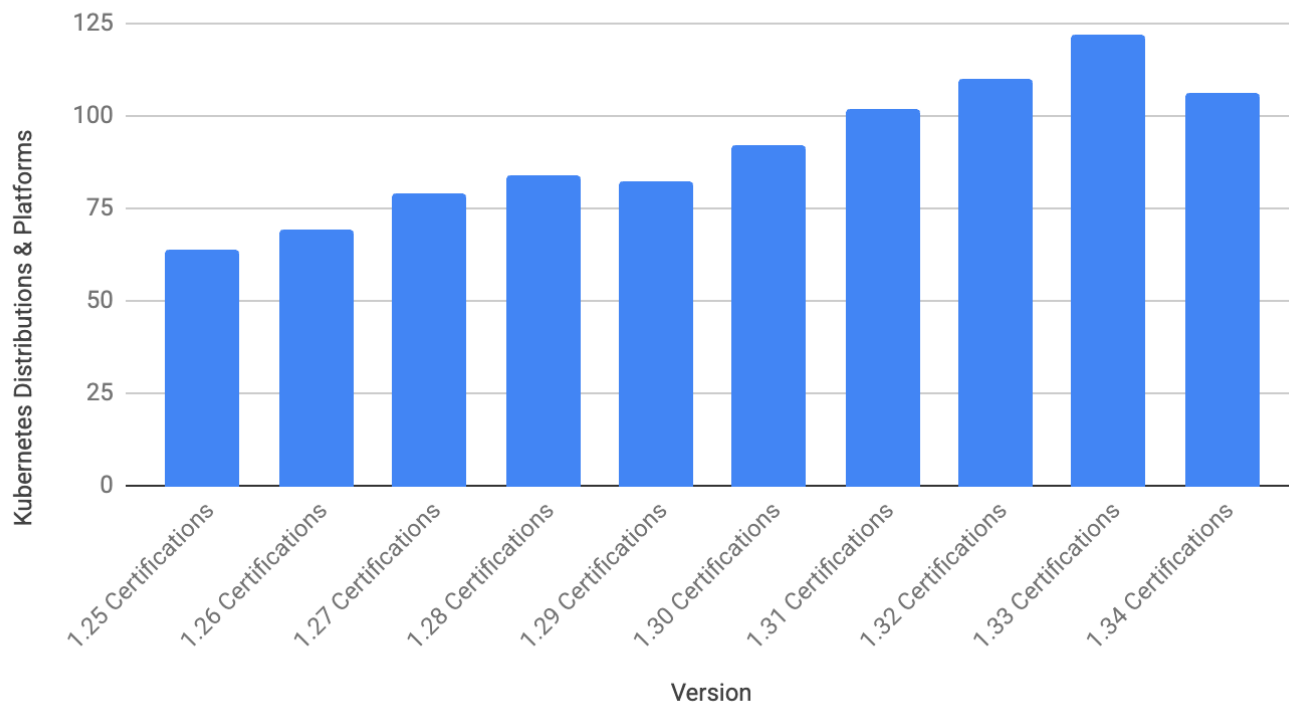
File Edit View Insert Format Data Tools Extensions Help

100% Comment only

Company	1.7	1.8	1.9	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.28	1.29	1.30	1.31	1.32	1.33	1.34	1.35	1.36	Type	Certified	Certified Vendor	Certified Product	Product Name
2 Acornsoft						X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		Distribution	20	Acornsoft	Distribution	Cocktail Cloud	
3 Akamai										X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		Hosted	17	Akamai	Hosted	Linode Kubemete	
4 ALASCA																	X	X	X	X	X	X	X	X	X	X	X	X		Distribution	3	ALASCA	Distribution	Tarook	
5 Alauda																					X	X	X	X	X	X	X	X		Distribution	7	Alauda	Distribution	Alauda Container	
6 Alibaba		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		Hosted	19	Alibaba	Hosted	Alibaba Cloud Co	
7 Amazon Web Services			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		Hosted	27	Amazon Web Services	Hosted	Amazon Elastic C	
8 Amazon Web Services			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		Installer	16	Amazon Web Services	Installer	Amazon Elastic K	
9 Amazon Web Services																														Distribution	4	Amazon Web Services	Distribution	Amazon Elastic K	
10 Arcfra																									X	X	X		Distribution	3	Arcfra	Distribution	Arcfra Kubernetes		
11 ARDC																					X	X	X	X	X	X	X	X		Hosted	9	ARDC	Hosted	ARDC Nectar Res	
12 Aruba S.p.A																														Hosted	5	Aruba S.p.A	Hosted	Aruba Managed K	
13 ASUS Cloud															X	X	X	X	X	X	X	X	X	X	X	X	X	X		Distribution	6	ASUS Cloud	Distribution	ASUS Cloud Infra	
14 Avisi																									X	X	X	X		Hosted	5	Avisi	Hosted	Avisi AME	
15 Baidu														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		Hosted	9	Baidu	Hosted	Baidu Cloud Cont	
16 BoCloud		X		X		X			X								X	X	X	X	X	X	X	X	X	X	X	X		Distribution	10	BoCloud	Distribution	BoCloud BeyondC	
17 Breqwatr																											X	X		Hosted	2	Breqwatr	Hosted	Breqwatr Kuberne	
18 Canonical		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		Distribution	26	Canonical	Distribution	Canonical Charm	
19 Canonical					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		Distribution	21	Canonical	Distribution	MicroK8s	
20 Canonical																										X	X	X		Distribution	3	Canonical	Distribution	Canonical Kubern	
21 CARS (X'an TieKe Jingwei Inform																X	X	X	X	X	X	X	X	X	X	X	X	X		Distribution	7	CARS (X'an TieKe Jingwei In	Distribution	CARS TaiChu	
22 Catalyst Cloud															X	X	X	X	X	X	X	X	X	X	X	X	X	X		Hosted	14	Catalyst Cloud	Hosted	Catalyst Kubernet	
23 China Mobile													X			X	X	X	X	X	X	X	X	X	X	X	X	X		Hosted	8	China Mobile	Hosted	China Mobile KC5	
24 China Unicom																											X	X		Hosted	1	China Unicom	Hosted	Unicom Cloud Co	
25 Chisliet Lab																					X	X	X	X	X	X	X	X		Distribution	7	Chisliet Lab	Distribution	Shiurval	
26 City Network (not certified)																														Hosted	0				
27 Civo																					X	X	X	X	X	X	X	X		Hosted	11	Civo	Hosted	Civo Kubernetes	
28 Clush																											X	X		Distribution	1	Clush	Distribution	Clush Kube	
29 CNCF - k3s						X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		Distribution	22	CNCF - k3s	Distribution	k3s	
30 CNCF - KubeClipper																									X	X	X	X		Installer	2	CNCF - KubeClipper	Installer	KubeClipper	
31 CNCF - k0s										X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		Distribution	17	CNCF - k0s	Distribution	k0s	
32 Conoa																	X	X	X	X	X	X	X	X	X	X	X	X		Hosted	12	Conoa	Hosted	Proact Managed C	
33 Control Plane Corporation																										X	X	X		Hosted	3	Control Plane Corporation	Hosted	Control Plane Ma	

Entries Sheet8 Version Release Dates Archived Historical

Certified Kubernetes Conformance during Kubernetes releases



How to get involved

Kubernetes SIG Architecture

conformance-definition

- Reviewing, approving, and driving changes to the conformance test suite; reviewing, guiding, and creating new conformance profiles
- Meeting: conformance office Hours: [Wednesdays at 18:00 UTC](#) (First Wednesday of the month)
- Communication:
 - Slack: #k8s-conformance
 - Mailing list: sig-architecture mailing list
 - <https://github.com/kubernetes/community/tree/main/sig-architecture>

Kubernetes SIG Testing

hydrophone

Hydrophone is a lightweight Kubernetes conformance tests runner

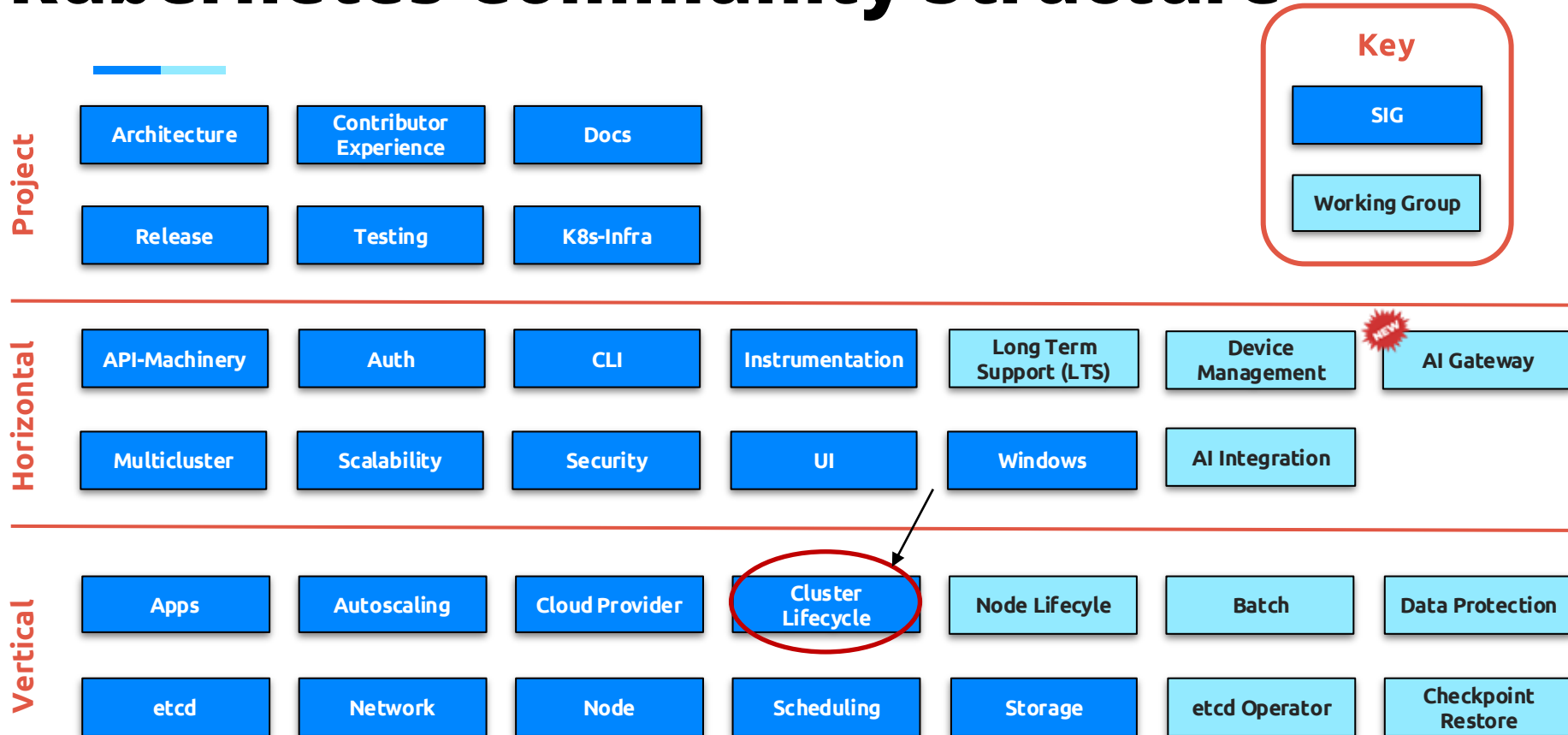
- Meeting: Hydrophone Office Hours: [Tuesdays at 13:00 PT \(Pacific Time\)](#) (bi-weekly starting Tuesday April 16, 2024)

- Communication:
 - Slack: sig-testing
 - Mailing list: sig-testing mailing list
 - <https://github.com/kubernetes/community/tree/main/sig-testing>

Kubernetes SIG Cluster Lifecycle



Kubernetes Community Structure



community / sig-cluster-lifecycle / README.md

k8s-ci-robot Merge pull request #8889 from liggit/2025-its-report

Preview Code Blame 271 Lines (251 loc) · 19.7 KB

Cluster Lifecycle Special Interest Group

The Cluster Lifecycle SIG examines how we should change Kubernetes to make it easier to manage and operate with a focus on cluster deployment and upgrades. Add our [calendar](#) to track when we have community meetings.

The [charter](#) defines the scope and governance of the Cluster Lifecycle Special Interest Group.

Meetings

Joining the [mailing list](#) for the group will typically add invites for the following meetings to your calendar.

- Regular SIG Meeting ([calendar](#)) : [Tuesdays at 09:00 PT \(Pacific Time\)](#) (biweekly). [Convert to your timezone](#).
 - [Meeting notes and Agenda](#).
 - [Meeting recordings](#).

Leadership

Chairs

The Chairs of the SIG run operations and processes governing the SIG.

- Justin Santa Barbara ([@justinsb](#)), Google
- Lubomir Ivanov ([@neolit123](#)), Independent
- Vince Prignano ([@vinceprn](#)), Red Hat

SIG Cluster Lifecycle is a Kubernetes Special Interest Group focused on **simplifying the creation, configuration, upgrade, downgrade, and teardown of Kubernetes clusters**.

Its primary goal is to provide **consistent and repeatable cluster deployments** across diverse **infrastructure environments** by developing **declarative APIs** and specialized tooling

<https://github.com/kubernetes/community/blob/main/sig-cluster-lifecycle/charter.md>

SIG Cluster Lifecycle Key Sub-projects

cluster-api

A project focused on providing declarative APIs and tooling to simplify provisioning, upgrading, and operating multiple Kubernetes clusters

- **cluster-api-ipam-provider-in-cluster**
cluster-api-provider-aws
cluster-api-provider-azure
cluster-api-provider-cloudstack
cluster-api-provider-digitalocean
cluster-api-provider-gcp
cluster-api-provider-ibmcloud
cluster-api-provider-kubemark
cluster-api-provider-kubevirt
cluster-api-provider-openstack
cluster-api-provider-vsphere
karpenter-provider-cluster-api

image-builder

A collection of cross-provider Kubernetes virtual machine image building utilities

kOps

A tool for creating, destroying, upgrading and maintaining production-grade, highly available, Kubernetes cluster that also provisions infrastructure

kubespray

A project that uses Ansible / Vagrant for deploying production ready clusters on different infrastructure

minikube

Implements a local Kubernetes cluster for application development on macOS, Linux, and Windows

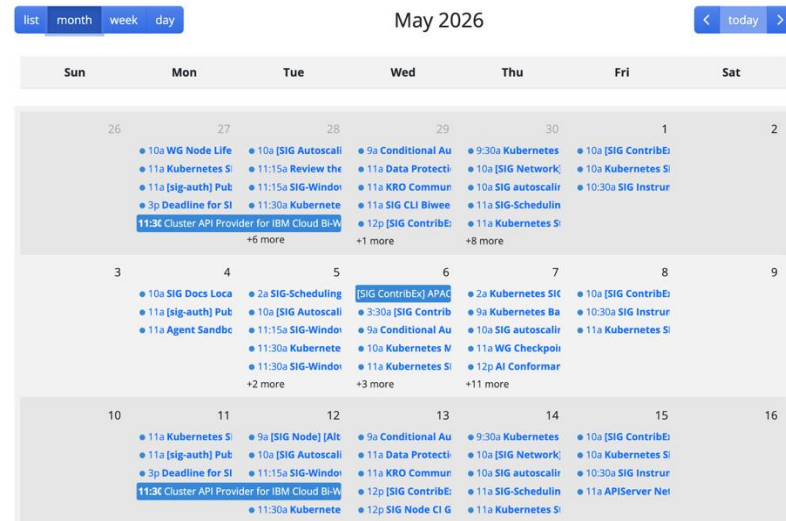
How to get involved

- Regular SIG Meeting: Tuesdays at 09:00 PT (Pacific Time) (biweekly).
- Communication:
 - Slack: #sig-cluster-lifecycle
 - Mailing list: sig-cluster-lifecycle mailing list
 - <https://github.com/kubernetes/community/blob/main/sig-cluster-lifecycle/charter.md>

Community Calendar

Meetings in the Kubernetes Community

Displayed times are in your local timezone



<https://www.kubernetes.dev/resources/calendar/>

NCO Meetings are held in *two sessions on the third Tuesday of every month*:

- **EMEA/APAC-friendly:** 1:30 PT / 8:30 UTC / 10:30 CET / 14:00 IST
- **AMER-friendly:** 8:30 PT / 15:30 UTC / 17:30 CET / 21:00 IST



Next NCO will be 19 May 2026
SEE YOU TOMORROW!

The image shows a YouTube video player interface. The video title is "Kubernetes New Contributor Orientation" with a subtitle "April 2026". The video thumbnail features a blue background with the Kubernetes logo (a white ship's wheel) on the right and a group of colorful, cartoonish mascots (Phippy and Friends) on the left. Below the thumbnail, there is a small text overlay: "Phippy & Friends are Open Source (CC-BY) CNCF mascots. Learn more at: <https://phippy.io>". The video player includes a "Kubernetes" channel name with a "Subscribe" button and a subscriber count of "24.3k subscribers". Interaction icons for "Like" (1), "Share", "Ask", "Save", and "Download" are visible at the bottom right. A small video call window in the top right corner shows a person named "Arsh Agrawal".

<https://github.com/kubernetes/community/tree/main/mentoring/new-contributor-orientation>



Wendy Ha
Kubernetes Contributor
CNCF Ambassador

Connect with me



THANK YOU!