

Open Technet Summit 2023 (Seoul)

# CNCF 앰버서더를 통해 살펴보는 글로벌 오픈소스 활동과 성장의 기회

Exploring Prospects from Global Open Source Activities  
with CNCF Ambassador

2023.09.14.

ETRI 손석호 전문위원 (CNCF Ambassador)



# Who am I?



 @seokho-son

 @seokho-son

 @seokho son (CNCF / K8s Slack)

Senior Researcher & Special Fellow,



Ambassador, CNCF

Maintainer, CNCF Cloud Native Glossary

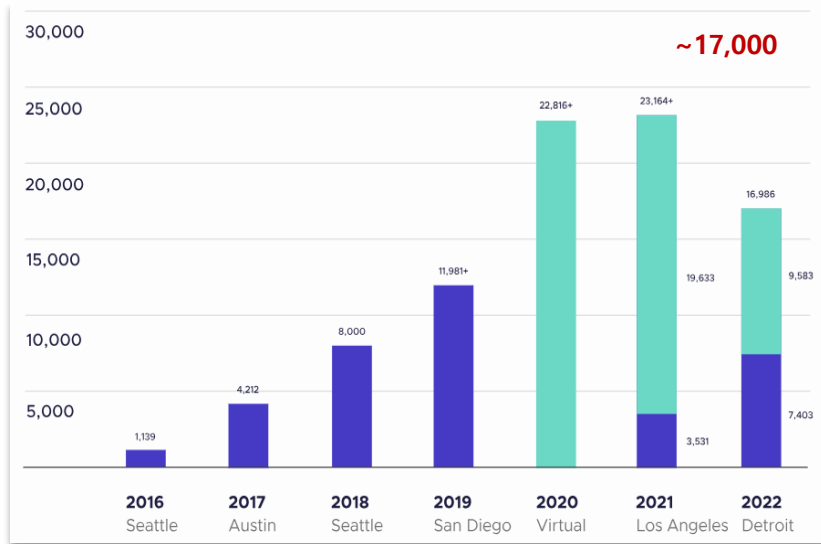
Lead, Kubernetes SIG-Docs Subproject

Founding member, Cloud-Barista

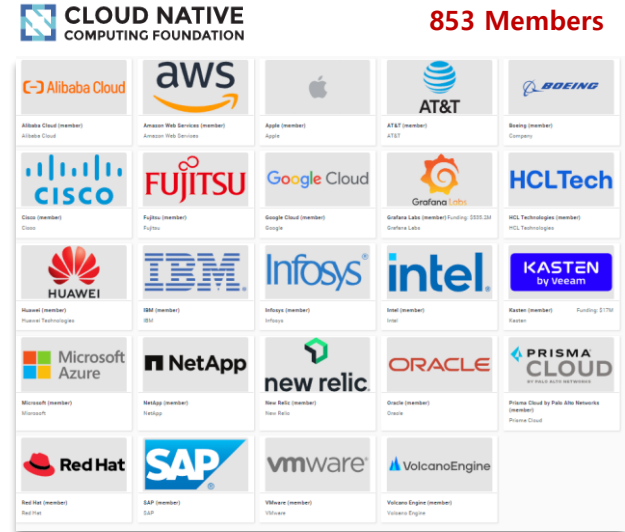
Maintainer, Cloud-Barista CB-Tumblebug

# **Journey to Global open source contribution**

# Global Open Source Kubernetes & CNCF



KubeCon North America 참석자 추이



CNCF 주요 멤버 (플래티넘)



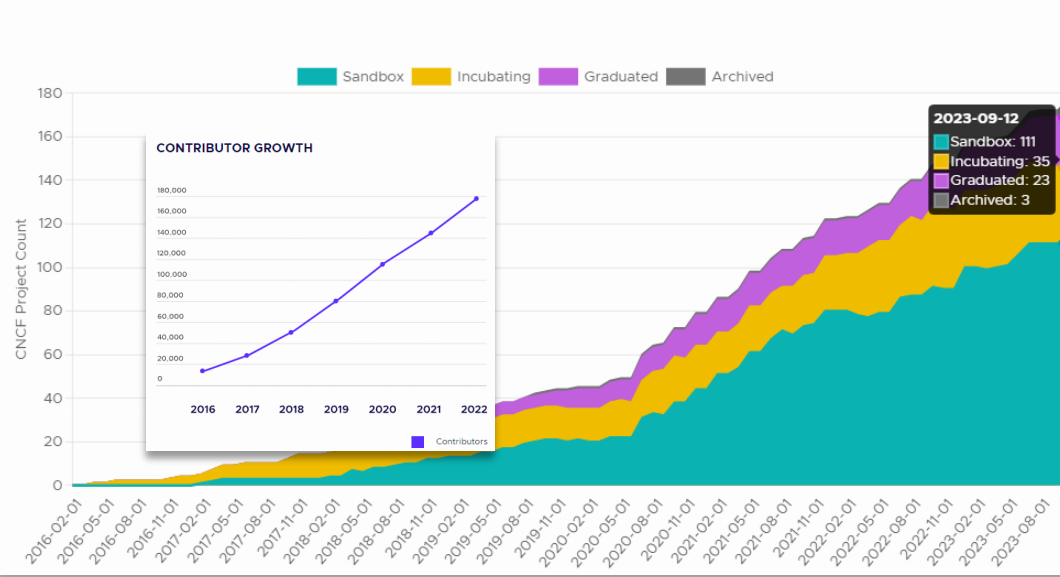
**kubernetes** 클라우드 환경에서 효율적인 애플리케이션 운영을 위한 SW 플랫폼 (컨테이너 오케스트레이터)

[초기 개발] Google

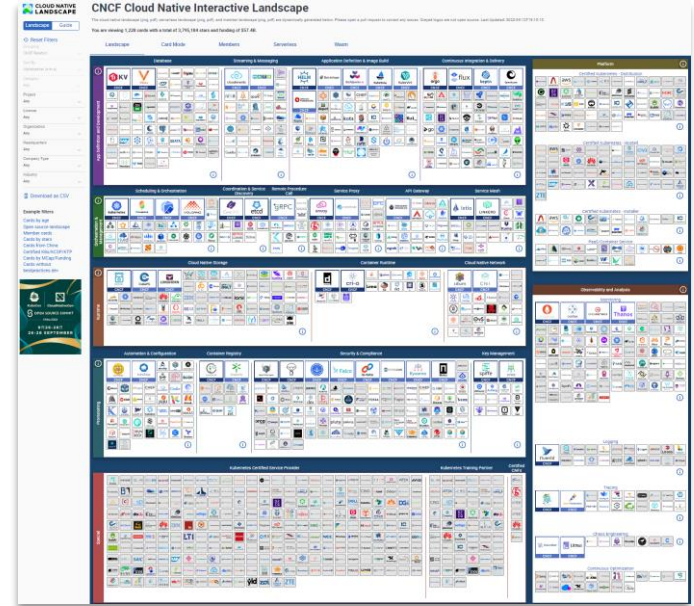
[운영 위탁] CNCF (Linux Foundation Project)

# Global Open Source Kubernetes & CNCF

## PROJECTS ACCEPTED OVER TIME

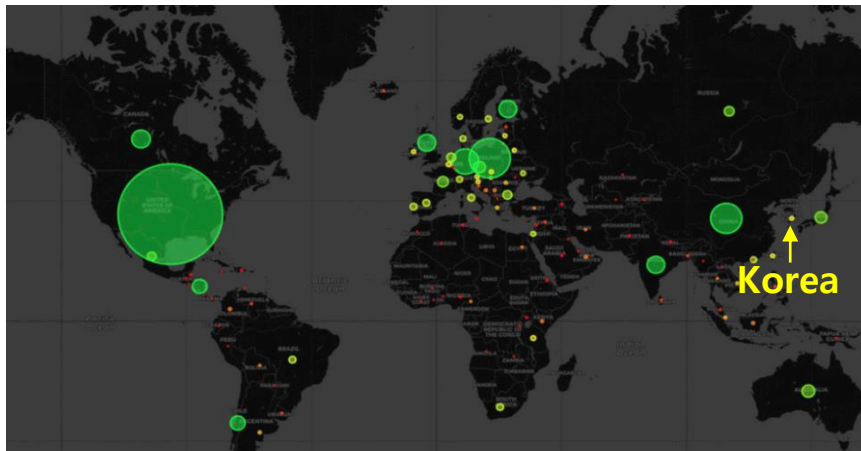


CNCF 소속 오픈소스 프로젝트 및 기여자 추이



Cloud Native Landscape (1000+)

# Motivation of Contribution to K8s



\* Source: CNCF Kubernetes Project Journey Report

- 우리나라 컨트리뷰션 높이고 싶다.
- 커뮤니티에 연구원(ETRI)을 알리고, 글로벌 네트워크를 구축하고 싶다.
- 기술의 변화를 빨리 파악하고 싶다.
- 오픈 프로젝트 운영 노하우를 배우고 싶다.

➔ 직접 활동하자!

Motivations

# Kubernetes Contribution (Start~!)

Outdated files in the dev-1.19-ko.4 branch #24

seokho-son opened this issue 14 days ago · 5 comments

seokho-son commented 14 days ago

### This is a Bug Report

#### Problem

Outdated files in the dev-1.19-ko.4 branch.

47 files to be modified

- content/en/\_index.html 1 file changed, 3 insertions(+), 1 deletion(-)
- content/en/docs/\_index.md 1 file changed, 2 insertions(+)
- content/en/docs/concepts/architecture/control-plane-node-communication.md 1 file changed, 1 insertion(+), 1 deletion(-)
- content/en/docs/concepts/architecture/nodes.md 1 file changed, 1 insertion(+), 1 deletion(-)
- content/en/docs/concepts/configuration/configmap.md 1 file changed, 49 insertions(+), 33 deletions(-)
- content/en/docs/concepts/configuration/manager-resources-containers.md 1 file changed, 8 insertions(+), 1 deletion(-)
- content/en/docs/concepts/containers/container-lifecycle-hooks.md 1 file changed, 18 insertions(+), 7 deletions(-)
- content/en/docs/concepts/containers/runtime-class.md 1 file changed, 2 insertions(+), 2 deletions(-)
- content/en/docs/concepts/extend-kubernetes/compute-storage-net/network-plugins.md 1 file changed, 3 insertions(+), 12 deletions(-)
- content/en/docs/concepts/extend-kubernetes/operator.md 1 file changed, 1 insertion(+), 1 deletion(-)
- content/en/docs/concepts/overview/\_index.md 1 file changed, 2 insertions(+)
- content/en/docs/concepts/overview/kubernetes-api.md 1 file changed, 13 insertions(+), 4 deletions(-)
- content/en/docs/concepts/overview/what-is-kubernetes.md 1 file changed, 2 insertions(+)
- content/en/docs/concepts/overview/working-with-objects/namespaces.md 1 file changed, 3 deletions(-)
- content/en/docs/concepts/scheduling-eviction/resource-bin-packing.md 1 file changed, 1 insertion(+), 1 deletion(-)
- content/en/docs/concepts/services-networking/dns-pod-service.md 1 file changed, 1 insertion(+), 1 deletion(-)

Add Korean localization for Dashboard #417

Merged k8s-ci-robot merged 3 commits into kubernetes:master from seokho-son:ko-kr

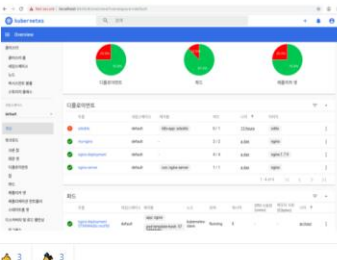
seokho-son commented on 7 Aug 2019 · edited

This PR is to initiate Korean localization for Dashboard.

This PR modifies: (1) i18n/locale\_conf.json, (2) package.json to add "ko" as a new localization language. Also, the PR includes i18n/messages.ko.xlf that includes actual translation contents.

I am one of @kubernetes/sig-docs-ko-owners, and we are happy to know about new Kubernetes Dashboard v2.0.0 and provide localization for Korean !! (Thank you @shu-mutou for your guidance)

cc to sig-docs-ko-reviews for checking any major issues in the Korean translation. (Please note that this PR is for initiation of Korean localization for Dashboard. I did my best for the translation, but if there is a major issue, please let me know :))  
/cc @kubernetes/sig-docs-ko-reviews




반복

Outdated files in the dev-1.19-ko.4 branch

Outdated files in the dev-1.19-ko.3 branch

Korean Localization for dev-1.19-ko.3 branch

Korean Localization for dev-1.19-ko.2 branch

Outdated files in the dev-1.19-ko.1 branch

Outdated files in the dev-1.18-ko.11 branch

Outdated files in dev-1.18-ko.10 branch

Inconsistency in translated terms in concepts/workloads/pods for Korean

Support request to squash bugs in Korean contents

Translate tasks/scheduling-gpus in Korean

Outdated files in the dev-1.16-ko.5

No reference/glossary/control-plane.md in Korean

No reference/glossary/applications.md in Korean

Glossary tooltip mismatch in reference/glossary/

docs: fix typo

Translate k8s 1.19 release note in Korean

Update outdated files in the dev-1.19-ko.4 branch

Translate reference/glossary/service-broker.md in Korean

Translate 1.19 release notes in Korean

Translate reference/kubectl/kubectl.md into Korean

ko: Fix output of 'kubectl rollout status'

Clean up case study images in content/ko/case-studies

Update 'thirdparty\_message' and ordering the entries

Fix issue with broken links in ko documents

Fix issue with links to already translated ko documents

문제 탐색 및 리포트 [이슈]

해결을 위한 개발 및 제안 [PR]

[이슈] 리스트

[PR] 리스트

# GitHub Profile

seokho-son / README.md

### GitHub Stats

**My GitHub Statistics**

- Total Stars: 20
- Total Commits: 4.2k
- Total PRs: 862
- Total Issues: 266
- Contributed to: 34

**A++**

**Achievements:** MultiLanguage (Rainbow Lang User 25pt), Organizations (Jack of all Trades 4pt), Reviews (God Reviewer 25pt), PullRequest (Deep Puller 100pt), Issues (Super Issuer 200pt), Followers (Famous User 14pt), Repositories (Ultra Repo Creator 70pt), Commits (Hyper Committer 482pt)

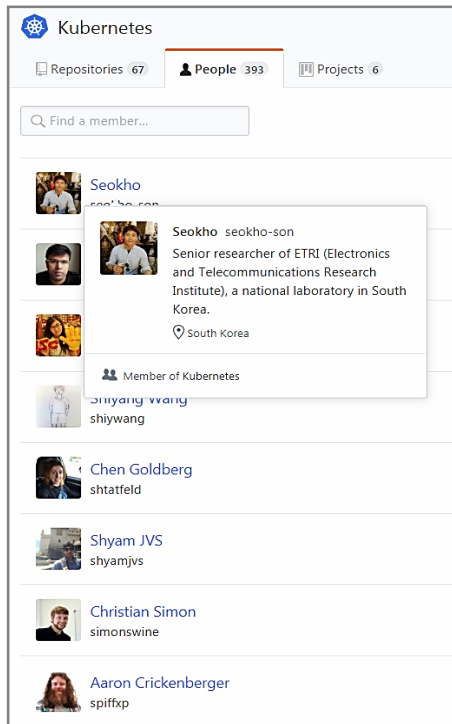
**Pinned:** kubernetes/dashboard, kubernetes/website, cloud-barista/cb-tumblebug, seokho-son.github.io

**Contribution calendar:** 972 contributions in the last year. Contribution settings: 2023, 2022, 2021, 2020, 2019, 2018

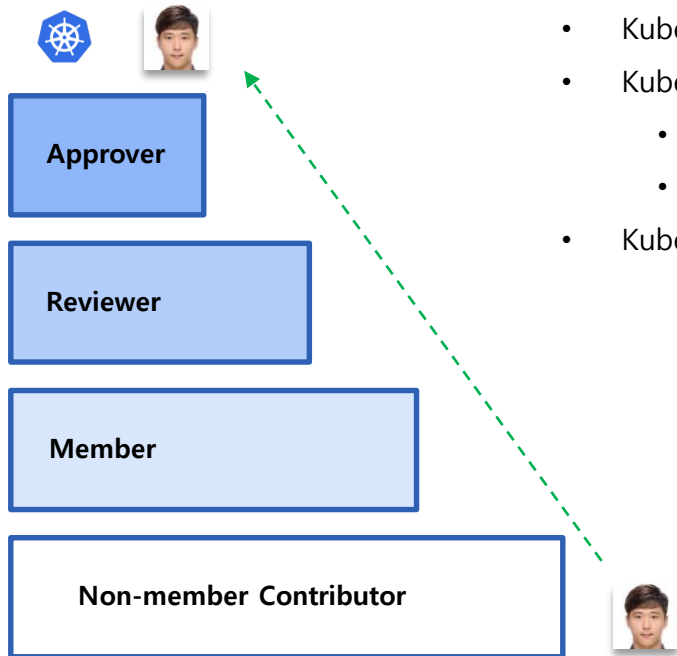
일단 시작하면  
열심히 하는 스타일



# Kubernetes Contribution (Promoted~!)



9 Kubernetes 기관 멤버

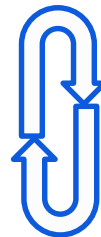


Kubernetes 컨트리뷰터 계단

## [Kubernetes 커뮤니티에서의 역할 (현재)]

- Kubernetes organization 정식 멤버
- Kubernetes 콘텐츠 소유자 (maintainer)
  - 소스 리뷰 및 승인 권한 (review/approve)
  - 주-기여 저장소: **Website, Dashboard**
- Kubernetes **SIG-Docs Subproject Lead**

- ➔ 개선 포인트 찾기
- ➔ 적극적인 점프인
- ➔ 책임감+성실함
- ➔ 신뢰++



반복  
(Start small)

# Endless Roadmap

KubeCon  
2018 Seattle  
Kuberentes  
contributor  
summit

첫 SIG Docs  
한글화팀  
미팅 참석

첫 한글화  
이슈/PR

Kubernetes  
org.  
정식 멤버

SIG Docs  
한글 콘텐츠  
리뷰어

SIG Docs  
한글 콘텐츠  
승인자

Open Source  
Contribution  
Academy  
Kubernetes  
Mentor

kubernetes/  
dashboard  
한글 콘텐츠  
승인자

kubernetes/  
dashboard  
한글 콘텐츠  
리뷰어

Kuberentes/  
dashboard  
한글화 기여

SIG Docs  
한글화팀  
팀장  
(2020.07.10)

SIG Docs  
브랜치  
메인테이너

CNCF Cloud  
Native  
Glossary  
기여

CNCF Cloud  
Native  
Glossary  
메인테이너

CNCF Cloud  
Native  
Glossary  
한글화 멤버

Kubernetes  
Contributor  
Awards

SIG Docs  
Localization  
Subproject  
Lead

CNCF  
Ambassador

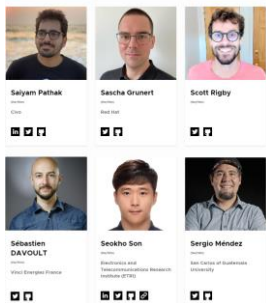
# And.. Currently.. in CNCF&Kubernetes



인터뷰  
오픈소스전문위원 손석호 박사

지난 10월, 미국에서 개최된 KubeCon Kubernetes Contributor Summit(이하 쿠버네티스)에서 ETRI 오픈소스센터의 오픈소스전문위원인 손석호 박사가 Kubernetes Contributor Award를 수상했다. Kubernetes Contributor Awards는 약 3만 명 이상의 쿠버네티스 기여자 중 특별히 공로가 인정되는 소수의 기여자들에게 주어지는 상이다. ETRI 오픈소스 전문가로서 국제적으로 이름을 알리고 온 손석호 박사를 만나보았다.

## Kubernetes Contributor Awards



<https://k8s.devstats.cncf.io/d/66/developer-activity-counts-by-companies>

Developer Activity Counts ...

Range: Last year | Metric: Contributions | Repository group: All

Country: All | Companies: All

Kubernetes Developers statistics (Contributions, Range: Last year, Repositor...)

Rank	GitHub login	Company	Number
104	fedebongio	Google	943
105	seans3	Google	941
106	soltys	Red Hat	935
107	RainbowMango	Huawei	922
108	seokho-son	ETRI (108 / 20335)	915
109	kikideliveryservice	Red Hat	912
110	tpepper	VMware	905
111	smarterclayton	Red Hat	889
112	cofyc	PingC	883
113	caesarxuchao	Google	876

CNCF Ambassador

# As CNCF Ambassador

Seokho Son • You  
CNCF Ambassador | Special Fellow & Senior Researcher of ETRI ...  
1mo •

View my verified achievement from The Linux Foundation.




Program Committee Member: Kubernetes Community Days 2023 was issued by The Linux Foundation to Seokho Son.

프로그램 커미티

Seokho Son • You  
CNCF Ambassador | Special Fellow & Senior Researcher of ETRI ...  
1w •

View my verified achievement from The Linux Foundation.



Program Committee Member: KubeCon + CloudNativeCon + Open Source Summit China 2023 was issued by The Linux Foundation to...

주요 글로벌 컨퍼런스 발표자 선정

Seokho Son • You  
CNCF Ambassador | Special Fellow & Senior Researcher of ETRI ...  
1mo •

View my verified achievement from The Linux Foundation.



KCD Korea 2023 Contributor was issued by The Linux Foundation to Seokho Son.

CNCF 공식 밋업 조직위

# As CNCF Ambassador

## 주요 정보를 빠르고 정확하게 우리 나라에 전달

손석호  
우수 참여자 · 8월 16일 오후 6:56 ·

이미 많은 분들이 소식을 알고 계시겠지만~  
그래드 공유 드러블입니다. 한.. 5일쯤 전에, HashiCorp가 Terraform 등주요 프로젝트의 라이선스를 오픈소스 라이선스인 MPL v2에서 다소 상업적인 라이선스에 가까운 BSL v1.1로 변경하였습니다. (신규 버전에만 적용)  
<https://www.hashicorp.com/.../hashicorp-adopts-business...>

<https://github.com/hashicorp/terraform/blob/main/LICENSE>  
이 BSL 라이선스에는 아래와 같은 문구가 있기도 합니다.

*Additional Use Grant: You may make production use of the Licensed Work, provided such use does not include offering the Licensed Work to third parties on a hosted or embedded basis which is competitive with HashiCorp's products.*

관련해서는 다양한 아티클들이 나오고 있고, Terraform, Vault 등을 활용하는 솔루션들의 대응 방식 등등도 기사화되고 있네요.  
<https://thenewstack.io/hashicorp-abandons-open-source.../>

다소 지각변동?이 있을 수 있겠군요..

👍👎 Hoon Jo, 배규태 및 외 46명

댓글 2개 공유 9회

손석호 ▶ Kubernetes Korea Group  
2022년 12월 12일 ·

지난 주말, 쿠버네티스 v1.26 (Electrifying)가 릴리스되었습니다. 😊  
주요 개선 내용 참고: <https://kubernetes.io/.../12/09/kubernetes-v1-26-release/>  
아울러,  
v1.26 릴리스에 따라, 한글화팀도 작업에 착수하였습니다!... 더 보기



KUBERNETES.IO  
Kubernetes v1.26: Electrifying

손석호 ▶ Kubernetes Korea Group  
4월 5일 ·

안녕하세요! 😊  
혹시 도움이 될까하여~ 리눅스파운데이션에서 진행되는 LIFT 장학 프로그램을 공유드립니다. (<https://www.linuxfoundation.org/about/lift-scholarships>)  
LIFT 장학생이 되면, 리눅스파운데이션에서 온라인 교육 프로그램과 자격 시험을 1개씩 무료로 제공한다고 합니다.  
KCNA, CKA, CKAD, CKS 등이 포함  
(<https://training.linuxfoundation.org/full-catalog/>...)되어 있어서, 시험 비용이 부담스러운 분들께 도움이 될 것 같습니다.  
- 신청 기한: 4월 30일 (아마도 복이 기준?)... 더 보기



TRAINING.LINUXFOUNDATION.ORG  
Explore Full Catalog - Linux Foundation - Training  
Get early access to the latest Linux Foundation Training news, tutorials and exclusive offers - available only for monthly newsletter subscribers.

손석호 ▶ Kubernetes Korea Group  
4월 12일 ·

안녕하세요. 손석호입니다. 😊  
쿠버네티스 v1.27가 릴리스되어 내용을 공유드립니다. (2023/04/11)

이번 릴리스에는 총 60 enhancement가 포함되어 있습니다.  
(18->Alpha, 29->Beta, 3->Stable)

v1.27 릴리스 별명: Chill Vibes (차분한 바이브? ㅎㅎ, 보통 릴리스 과정에서 enhancements freeze 이후에도 예외적으로 추가 처리할 사항이 있었는데, 이번에는 다행히 예외가 없었던 럭키한? 릴리스였다고 합니다.)

빠르게 살펴볼 수 있도록 주요 사항만 요약해보았습니다. 😊  
(제가 문서와 KEP을 읽고 이해한 바를 토대로 작성하여서, 일부 틀린 정보가 있을 수도 있습니다. ㅎㅎ 참고만 하세요~)

## k8s.gcr.io 이미지 저장소 활용 중단 (Freeze k8s.gcr.io image registry)

- 이제는 registry.k8s.io 저장소를 사용해야 합니다.

- k8s v1.27 릴리스는 k8s.gcr.io에서 제공되지 않습니다. (v1.24 ~ v1.26 패치 릴리스도 마찬가지)

## SeccompDefault -> stable (SeccompDefault graduates to stable)

- kubelet 실행시 --seccomp-default 플래그를 사용하여, kubelet이 seccomp 프로파일(RuntimeDefault)을 기본으로 사용하도록 활성화 가능 (대략, 보안 위협이 될 수 있는 커널의 일부 시스템콜을 컨테이너 런타임이 사용하지 못하도록 프로필 설정하는 것이라고 이해하시면 되겠습니다.)

# As CNCF Ambassador

## 우리 나라의 활동을 글로벌 멤버들에게 소개 및 네트워크 상호 연결 & CNCF에 피드백 및 요청

**Seokho Son** • You  
Hi @katiegreenley, thank you for sharing! 🙏  
I am currently filling out the CNCF Annual Survey and noticed that only a few countries from the Asia-Pacific region are selectable. As a Korean, 'Asia-Pacific' is the only option I can select.  
I'm curious about why this limitation exists, as I've seen similar cases in other surveys or inquiries from CNCF and LF before. (is it because of the scale of users in those regions?)  
Could you guide me on how to initiate a discussion to include a specific country (e.g., Korea) as an option for these kinds of questions, for future (and present, if possible) surveys from CNCF?  
As one of the CNCF Ambassadors in South Korea, I'd like to see folks in South Korea have the option to select and check their country in surveys and publications from the CNCF, so our community can feel more embraced. I'd like to coordinate on this subject.  
Actually, from a globalization perspective, it would be ideal to include the names of all countries as selectable options whenever we have to choose a region in any CNCF survey.  
\* 11. What is the geographic location of your organization's headquarters? (select one)  
United States or Canada  
Mexico, Central America, the Caribbean, or South America  
Europe (including Russia)  
Asia-Pacific (except China, India, and Japan)  
China  
India  
Japan  
Middle East  
Africa  
Other (please specify)

**Katie Greenley** • You  
@SeokhoSon thank you for the feedback, I am going to ask the research team your question and hope to have a response shortly

**Seokho Son** • You  
Thanks! 🙏 If this suggestion is acceptable, it would be a good example of CNCF actively responding to local feedback.

**Leo Pahlke** • You  
Hey @SeokhoSon, I see you reacted with a 🙏 😊. I have created a document which dives into the event framework a little more 🙏. See <https://cloud-native.slack.com/archives/C03F270PDU6/p1685453408992019>  
↓  
**Leo Pahlke**  
Hi everyone, as some may have noticed - planning for the CNCF Global Week of Cloud Native Sustainability is moving forward. I need support with the organization and your feedback on the current plan.  
Upcoming tasks:  
1. ✅ (End of May) Reach out to folks for their interest  
2. (Early June) Share the planning with interested folks, wait for feedback, and work it in.

**Seokho Son** • You  
CNCF Ambassador | Special Fellow & Senior Researcher of ETRI ...  
1w • 🗨️

Cloud Native Storage 전문 기업인 Pure Storage (\*Portworx)에서 한국에서 근무할 유능한 클라우드 네이티브 엔지니어를 찾고 있다고 합니다. 관심있는 분은 **Kurt Kurniawan**님께 연락(DM)해보시면 좋을 ? ...see more

**Kurt Kurniawan** • 1st  
Empowering businesses through the utilization of Cloud Technology...  
2w • Edited • 🗨️

Cloud Native Resident Engineer (Korean and English Speaking) - Contract to Permanent.  
...see more

**Seokho Son** • You  
CNCF Ambassador | Special Fellow & Senior Researcher of ETRI ...  
1w • 🗨️


애플리케이션에 대한 분산 트레이스(distributed trace)를 즉시 생성하여 사용자가 쉽게 활용할 수 있도록 지원하는 Odigos 오픈소스 프로젝트를 소개 드립니다! <https://lnkd.in/gkhrUaeR>  
K8s에 기반을 두고 있고, eBPF를 활용하여, 애플리케이션의 SW 소스코드 변경없이 language agnostic하게 분산 애플리케이션을 추적/측정할 수 있는 특징을 가지고 있습니다. (OpenTelemetry 호환)  
한번 살펴보고 사용해보시면 좋을 것 같습니다 :)  
(아래 포스트는 Odigos co-founder인 **Ar Recht** 님의 부탁으로 [https://lnkd.in/gt\\_D68G6](https://lnkd.in/gt_D68G6) 를 한글로 번역 및 리뷰한 포스트입니다.)

```
Workflow: Release
- Job: Deploy Application
- helm apply -- deployment.yaml
- AWS ALB
- kube API Server
- etcd
```

**Seokho Son** • You  
CNCF Ambassador | Special Fellow & Senior Researcher of ETRI ...  
2mo • Edited • 🗨️

KCD Korea 2023, which took place last Monday, turned out to be a massive success. On the first day alone, we welcomed over 940 participants, and an additional 618 individuals (at least) attended the following day as a part of OpenInfra Community Days Korea. This joint effort, which involved the Kubernetes Korea Group, OpenStack Korea Community, Ceph Korea Community, and OCP Korea Community, brought together at least 1,558 attendees in total!

This conference wouldn't have been possible without the significant contributions of many individuals. A special thanks to **Audra Montenegro** and **Katie Greenley** of CNCF, whose efforts were pivotal in bringing KCD Korea 2023 to life.



👍👍👍 Jihoon Seo and 53 others  
8 comments

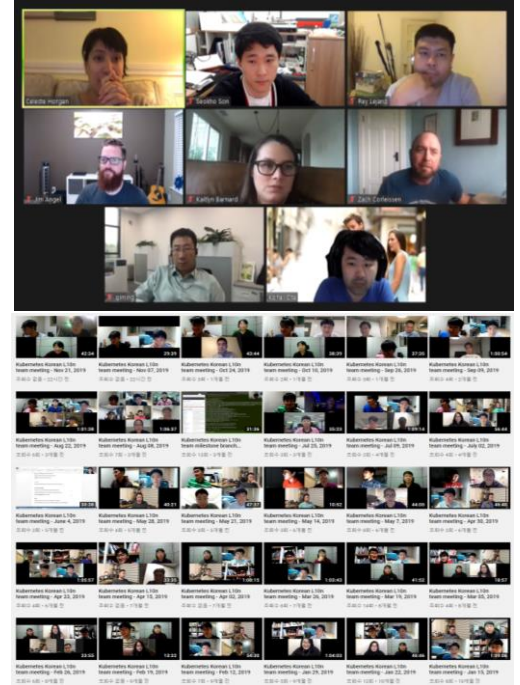
👍 Like    💬 Comment    ↺️ Repost    ➦ Send

📊 2,075 impressions    🔍 View analytics



# As CNCF Ambassador

다양한 국내외 발표 및 회의 진행







# How Contributing Can Benefit You

# Learn from Experts (review)

★ 나보다 잘하는, 글로벌 전문가의 리뷰  
(글로 맞아도 아프긴 아프다.. 전투력 상승.)

github.com/kubernetes/kubernetes/pull/119271

Merged controlplane: kubernetes.default controller stop polling #119271  
k8s-ci-robot merged 1 commit into kubernetes:master from aojea:servicedefault\_informer 3 days ago

sttts reviewed 4 days ago [View reviewed changes](#)

```
pkg/controlplane/controller/kuberneteservice/controller.go
89 +     if !cache.WaitForCacheSync(stopCh, c.serviceSynced) {
90 +         utilruntime.HandleError(fmt.Errorf("timed out waiting for cache
91 +         return
92 +     }
```

sttts 4 days ago Member ...  
This slows down when we create, update or delete endpoints. Just worth another thought whether we could imagine cases where we cannot sync services yet, but need to update the service quickly.

aojea 4 days ago • edited Member Author ...  
The service should only publish the endpoints when it is ready, the Run() method already waits for the /ready endpoint to return OK, so it does not really matter if we wait here too, because we'll have to wait later, is just this looks more "correct"

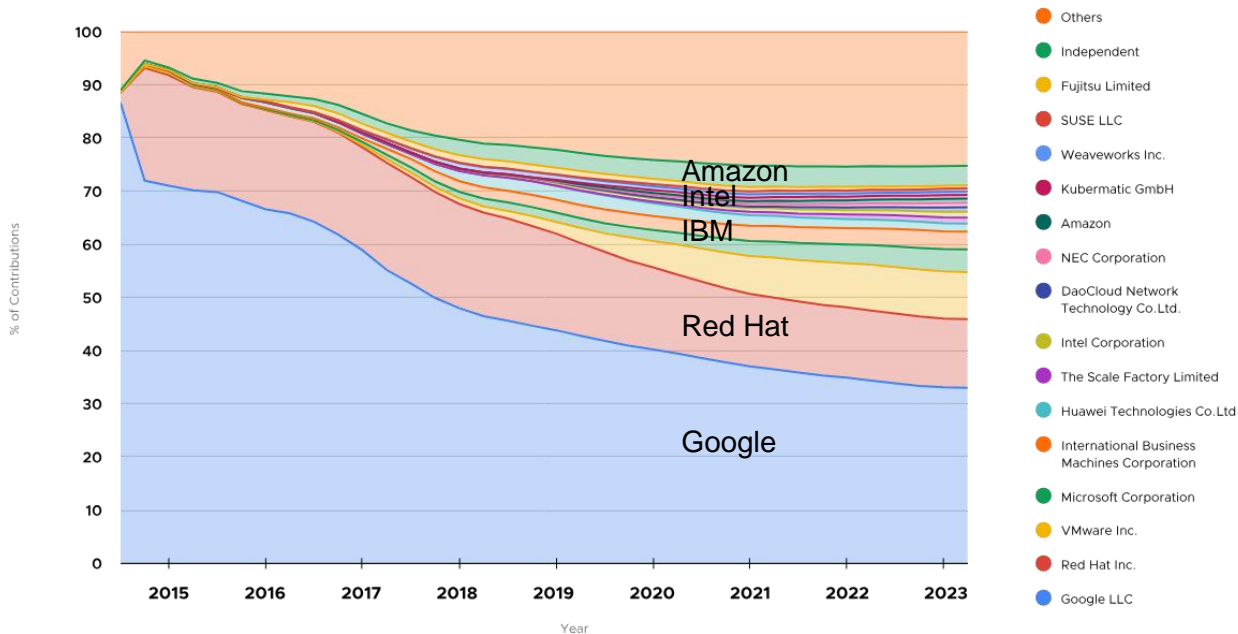
aojea 4 days ago Member Author ...  
see line 146

```
func (c *Controller) Run(ch <-chan struct{}) {
    // wait until process is ready
```

- test: azure: check error for cloud detection approved  
area/e2e-test-framework area/test cncf-cla: yes kind/bug lgtm needs-priority  
needs-triage ok-to-test release-note-none sig/testing size/S
- Enable arm64 support for GCE node configuration approved  
area/provider/gcp cncf-cla: yes kind/cleanup lgtm needs-priority needs-triage  
release-note-none sig/cloud-provider size/S
- add list of served versions to storage version approved area/apiserver  
area/test cncf-cla: yes kind/cleanup lgtm needs-priority needs-triage  
release-note-none sig/api-machinery sig/testing size/M
- controlplane: kubernetes.default controller stop polling approved  
cncf-cla: yes kind/cleanup lgtm needs-priority release-note-none sig/api-machinery  
size/L triage/accepted
- Fix lifecycle generator to check the version correctly approved  
area/code-generation cncf-cla: yes kind/bug lgtm needs-priority release-note-none  
sig/api-machinery size/L tide/merge-method-squash triage/accepted
- Automated cherry pick of #119229: Fix the converts an empty string to nil. approved cherry-pick-approved cncf-cla: yes kind/bug lgtm ok-to-test  
priority/important-soon release-note-none sig/api-machinery size/XS triage/accepted
- Automated cherry pick of #119229: Fix the converts an empty string to nil. approved cherry-pick-approved cncf-cla: yes kind/bug lgtm ok-to-test  
priority/important-soon release-note-none sig/api-machinery size/XS triage/accepted

# Learn from Experts (review)

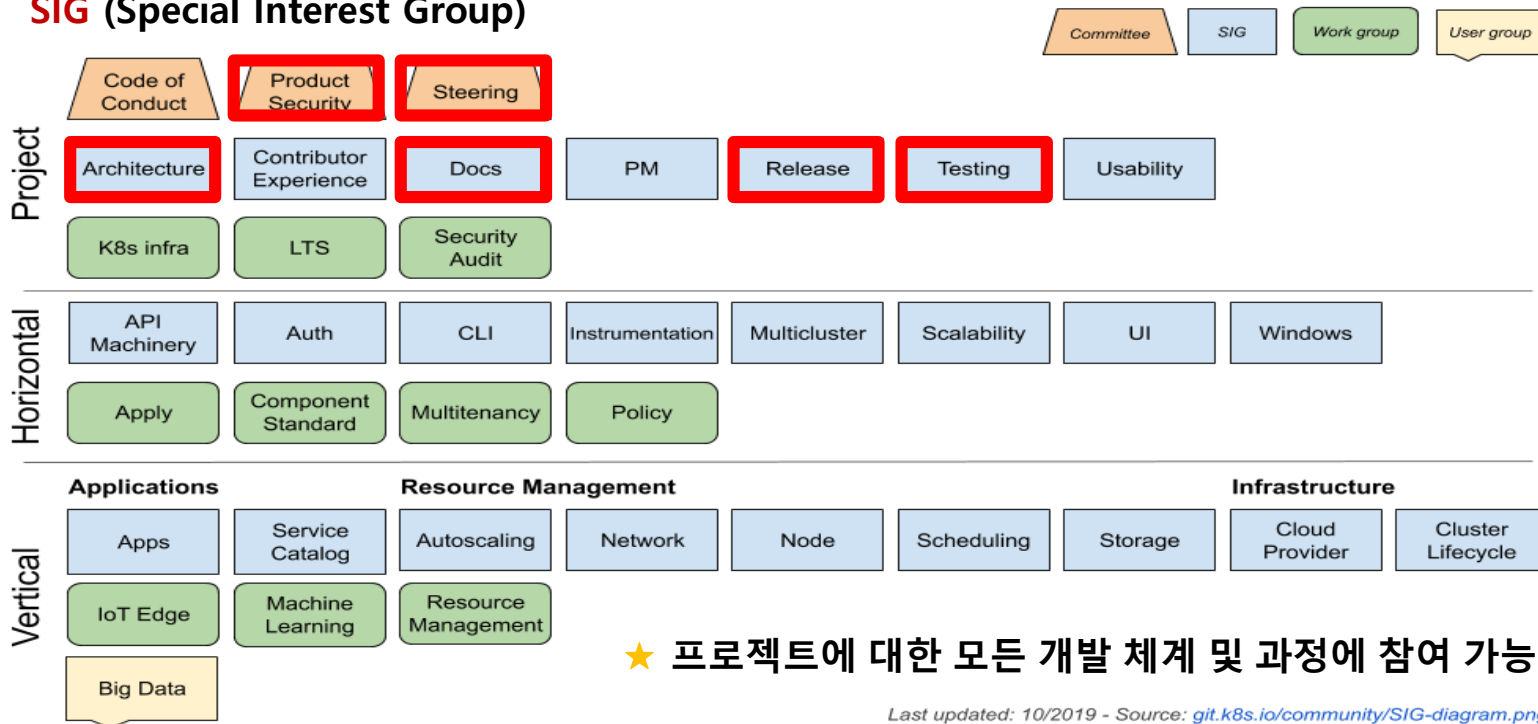
★ 나보다 잘하는, 글로벌 전문가의 리뷰  
(글로벌 맞아도 아프긴 아프다.. 전투력 상승.)



Kubernetes Contributions by company Q2 2014 – Q2 2023

# So many Interesting Aspects in the Project

## SIG (Special Interest Group)



★ 프로젝트에 대한 모든 개발 체계 및 과정에 참여 가능

Last updated: 10/2019 - Source: [git.k8s.io/community/SIG-diagram.png](https://git.k8s.io/community/SIG-diagram.png)

# So many Interesting Aspects in the Project

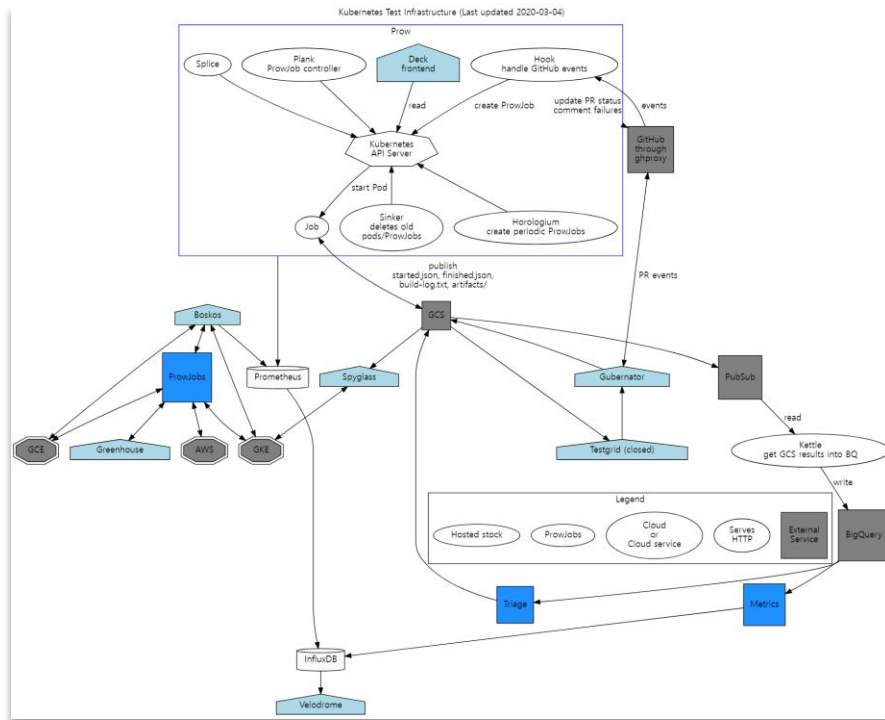
## Summary [↗](#)

The 1.29 release cycle is as follows:

- **Monday 4th September 2023:** Week 1 — Release cycle begins
- **Thursday 28th September 2023:** Week 4 — [Production Readiness Freeze](#)
- **01:00 UTC Friday 6th October 2023 / 18:00 PDT Thursday 5th October 2023:** Week 5 — [Enhancements Freeze](#)
- **01:00 UTC Wednesday 1st November 2023 / 18:00 PDT Tuesday 31st October 2023:** Week 9 — [Code Freeze](#)
- **Monday 6th - Thursday 9th November 2023:** Week 10 - [KubeCon NA](#)
- **01:00 UTC Wednesday 15th November 2023 / 18:00 PDT Tuesday 14th November 2023:** Week 11 — [Test Freeze](#)
- **Tuesday 28th November 2023:** Week 13 — Docs must be completed and reviewed
- **Tuesday 5th December 2023:** Week 14 — Kubernetes v1.29.0 released

## Timeline

What	Who	When	Week	CI Signal
Start of Release Cycle	Lead	Monday 4th September 2023	week 1	<a href="#">master-blocking</a>
Start Enhancements Tracking	Enhancements Lead	Monday 4th September 2023	week 1	
Schedule finalized	Lead	Friday 8th September 2023	week 1	
Team finalized	Lead	Friday 8th September 2023	week 1	
1.29.0-alpha.1 released	Branch Manager	Tuesday 19th September 2023	Week 3	
Start Release Notes Draft	Release Notes Lead	Tuesday 19th September 2023	week 3	
1.29.0-alpha.2 released	Branch Manager	TBD	Week 4	



# Learn Development Workflow

★ 오픈 개발 방식 및 문화 체득 (개발 워크플로우, 리뷰 및 소통)



Maintainer



Maintainer



CB-Tumblebug Contributors

```

372 + InstallMonAgent string `json:"installMonAgent" // yes or no
373
374 // Disabled for now
375 //Vm []]Overview `json:"vm"
376
377 TargetStatus string `json:"targetStatus"
378 TargetAction string `json:"targetAction"
379
380 + // Monitoring agent status
381 + MonAgentStatus string `json:"monAgentStatus" // installed, notinstalled,
382 faild
383
384 CspViewVmDetail SpiderVmInfo `json:"cspViewVmDetail"
385 }
386 }
387
388 func VerifySSHUsername(vmp string, usernames []string, privateKey string) string {
389     theUsername := ""
390     cmd := "ls"
391
392     for i := 0; i < 100; i++ {
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```

Issue / Pull-Request (PR)

cb-tumblebug: All files - gitk

- Local uncommitted changes, not checked in to index
- master -> remotes/origin/master Rename gen-mcis-for-df.sh go create-xx.sh
- Provide master ip and apply it to scripts
- Add install-ig for deploy-dragonfly.sh
- Update API doc for providing value example
- remotes/upstream/master Merge pull request #285 from seokho-son/...
- Enhance redundant codes
- Apply default agentinstall for mcis expand module
- Merge pull request #283 from seokho-son/master
- Add default agent install for MCIS
- Merge pull request #282 from seokho-son/master
- Renew client code for latest CB-DF API
- Merge pull request #281 from jihoon-seo/201021-Fix-REST-API-server-functions-HTTP-status-code
- Fix REST API server functions' HTTP status codes
- Merge pull request #279 from jihoon-seo/201019-Fix-bug-in-MCIR-functions
- Fix bug in MCIR functions
- Merge pull request #277 from jihoon-seo/201014-Update-go.mod

SHA1 ID: a9511af8bc27687913c1940d359a1c123e08b7fc

Find Search

Diff Old version New version Lines of context: 3 Ignore space change Line diff

```

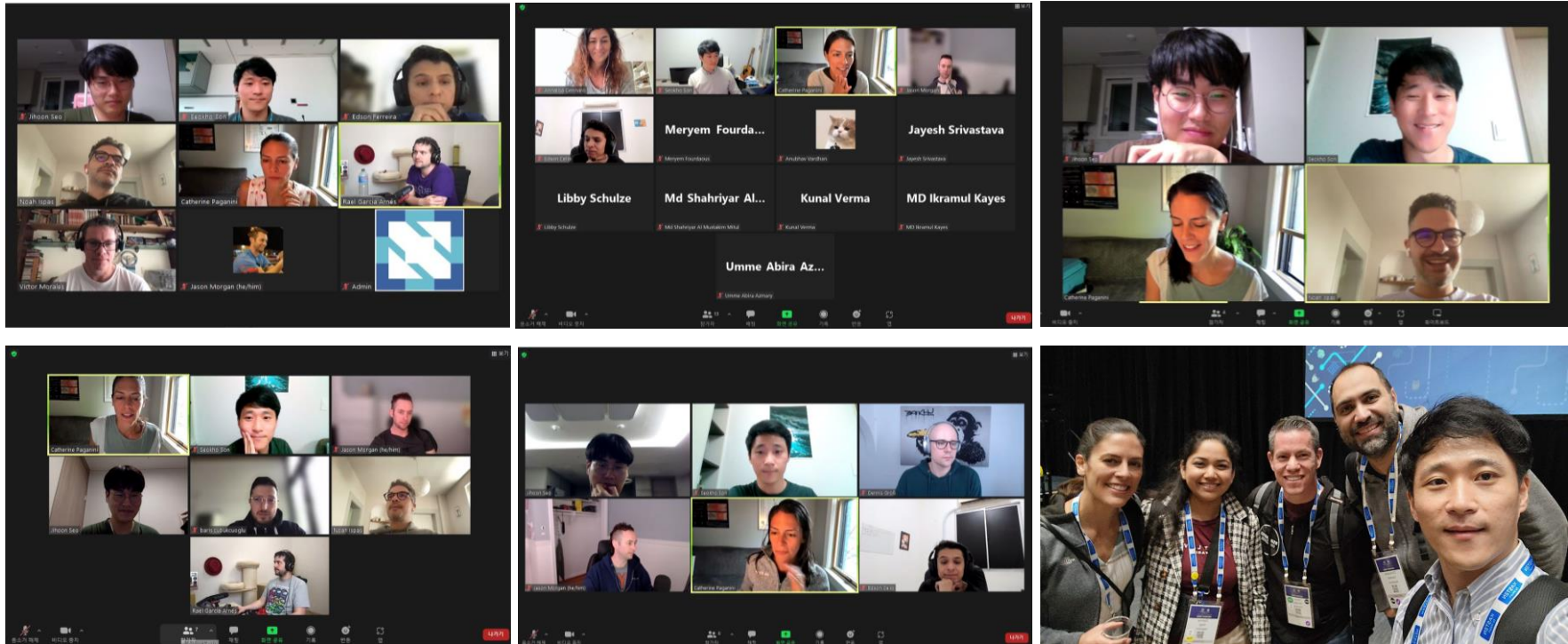
index 7a516ad..26aa7fc 100644
@@ -281,6 +281,8 @@ type McisStatusInfo struct {
     TargetStatus string `json:"targetStatus"`
     TargetAction string `json:"targetAction"`
     Vm []TBVmStatusInfo `json:"vm"`
+    MasterVmId string `json:"masterVmId" example:"vm-asiaeast1-cb-01"`
+    MasterIp string `json:"masterIp" example:"32.201.134.113"`
 }

 type TBVmStatusInfo struct {
@@ -308,7 +309,7 @@ func GetMcisStatus(nsId string, mcisId string) (McisStatusInfo, error) {
     return McisStatusInfo{}, nil
 }

     for _, v := range vmList {
         for num, v := range vmList {
             vmStatusTmp, err := GetVmStatus(nsId, mcisId, v)
             if err != nil {
                 return McisStatusInfo{}, err
             }
         }
     }
 }
    
```

개발 히스토리 (Git log)

# You will meet nice experts



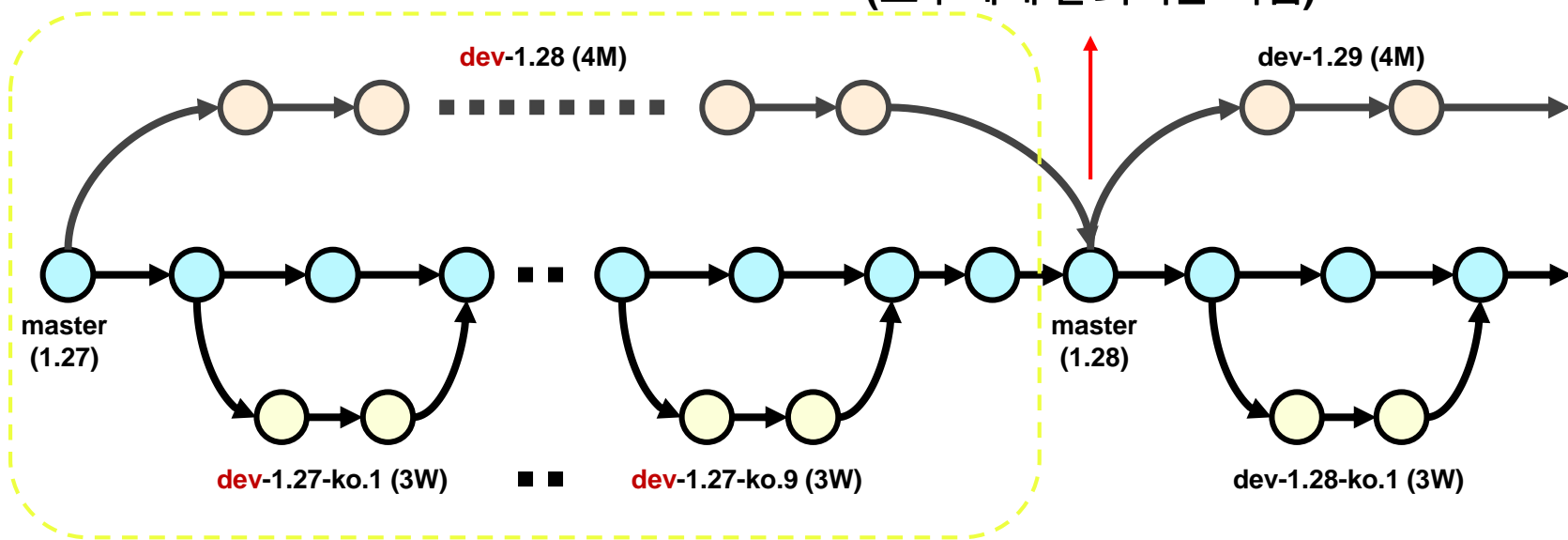
# Why do we need to Support Contributions



# Early Access to Open Source

Release: 1.28

(모두에게 알려지는 시점)



★ 공식 릴리스보다 변화를 먼저 파악하고 있는 엔지니어 확보 가능  
(기능 및 구조 변경 선제적 대응, 비즈니스 아이디어 확보 등의 효과)

# Early Access to Open Source

쿠버네티스 / 프로젝트 / 1.28 Enhancements Tracking

1.28 향상된 기능 추적

향상된 기능 PRR 문서 커뮤니티예시 코드동결 예외

-상태-마일스톤에서 제거됨 -상태:연기됨

제목	상태	단계	개신 사람 연락처	유형	시그	일수인
1 kubect 이벤트 # 1440	수직됨	안정적인	마타르바신데	졸업	시그관리	hpanycodeit 및 soft...
2 소급 기본 StorageClass 할당 # 3333	수직됨	안정적인	아라마세	졸업	시명 저장	로마베나나
삼 PertantVolume 마지막 단계 전환 시간 # 3762	수직됨	알파	살레세드우어	졸업	시명 저장	
4 StatefulSet 및 인덱싱된 작업에 대한 포드 인덱스 라벨 추가 # 4017	수직됨	베타	npolshakova	졸업	시그명	다니엘베가미레
5 작업에 대한 재시도 가능 및 재시도 불가능 포드 오류 # 3329	수직됨	베타	npolshakova	졸업	시그명	알물퀴콘드르와 미모워
6 kubect delete: 대화형(-i) 플러그 추가 # 3895	수직됨	알파	Kasambx	준 신규	시그관리	아르다그를루
7 볼륨 확장 실패 시 복구 지원 # 1790	수직됨	알파	마타르바신데	졸업	시명 저장	짜증나는
8 비정상적 노드 종료 # 2268	수직됨	안정적인	두히남안사리34	졸업	시명 저장	시양
9 측정항목 안정성 확장 # 3498	수직됨	베타	마타르바신데	졸업	시명 계속	논리적인
10 CRD 검증 표현 언어 # 2876	수직됨	베타	두히남안사리34	졸업	시그 API 기계	cic37
11 입학 통제를 위한 CEL # 3488	수직됨	베타	마타르바신데	졸업	시그 API 기계	cic37 및 jpbetz
12 인덱싱된 작업에 대한 인덱스당 백오프 제한 # 3850	수직됨	알파	아라마세	준 신규	시그명	미모와
13 작업 수석에 작업 생성 타임스탬프 추가 # 4026	수직됨	베타	npolshakova	졸업	시그명	멜라요리
14 커ью터 인프라이에 Kubernetes 패키지 게시 # 1731	수직됨	알파	두히남안사리34	준 신규	시명 릴리스	justaugustus, sascha...
15 타사 장치 모니터링 플러그인 지원 # 606	수직됨	안정적인	마타르바신데	졸업	시명 노트	대시올
16 자체 사용자 속성을 가져오는 Auth API # 3325	수직됨	안정적인	마타르바신데	졸업	시명 인증	리깃트와 나보킵스
17 작업 컨트롤러에서 완전의 종료되면 모드 재생성을 허용합니다. # 3939	수직됨	알파	아라마세	준 신규	시그명	alculquicondor, deja...
18 정보 제공자가 청구 대신 데이터 스트림을 가져오도록 허용 # 3157	수직됨	알파	npolshakova	준 신규	시그 API 기계	p0lynomial
19 CEL 기반 허용 목록 매칭 조건 # 3716	수직됨	베타	아라마세	졸업	시그 API 기계	앤드류시킵과 돌클러
20 CRD 검증 래칭팅 # 4008	수직됨	알파	Kasambx	준 신규	시그 API 기계	
21 알 수 없는 버전 상호 운용성 프록시 # 4020	수직됨	알파	두히남안사리34	준 신규	시그 API 기계	
22 병렬 이미지 가져오기의 Kubelet 제한 # 3673	수직됨	베타	두히남안사리34	졸업	시명 노트	파코수와 루이명자오

K8s 1.28 release: Enhancements Tracking

### Proposal

We propose a new policy for running Indexed Jobs in which the `backoffLimit` controls the number of retries per index. When the new policy is used all indexes execute until their success or failure. We also propose a new API field to control the number of failed indexes. Additionally, we propose a new action in `PodFailurePolicy`, called `FailIndex`, to short-circuit failing of the index before the `backoffLimit` per index is reached.

### User Stories (Optional)

**Story 1**  
As a C/VD platform administrator, I want to use Indexed Jobs to run suites of integration tests, one suite per index. A failure of one suite should not interrupt running of other suites. Additionally, I would like to be able to control the maximal number of retries per index.

The following Job configuration could satisfy my use case:

```
apiVersion: v1
kind: Job
spec:
  parallelism: 10
  completions: 10
  completionIndexing: Indexed
  backoffLimitPerIndex: 1
  template:
    spec:
      restartPolicy: Never
      containers:
        - name: job-container
          image: job_image
          command: ["./tests-number"]
```

In this case, we run 10 indexes representing the test suites. We allow for one failure per index.

**Story 2**  
As a C/VD platform administrator from the Story 1 I want to be able to control the failures with the `pod failure policy`. In particular, I want to be able to use `pod failure policy` to avoid restarts of some indexes, based on exit codes.

## ex) KEP proposal

Support BackoffLimitPerIndex in Jobs #119009

keps/119009/01-support-backoff-limit-per-index.md

```
11  // "backoffLimitPerIndex" is the number of times a pod can be restarted
12  // before the job is considered failed. This field is only applicable to
13  // Indexed jobs.
14  // The default value is 1.
15  // The field is immutable.
16  // The field is optional.
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```

ex) PR with Code

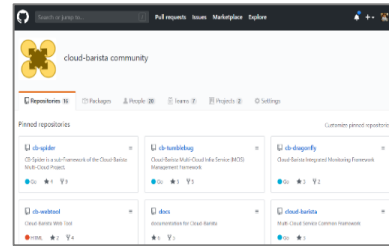
# Adopting Practices from Global Projects



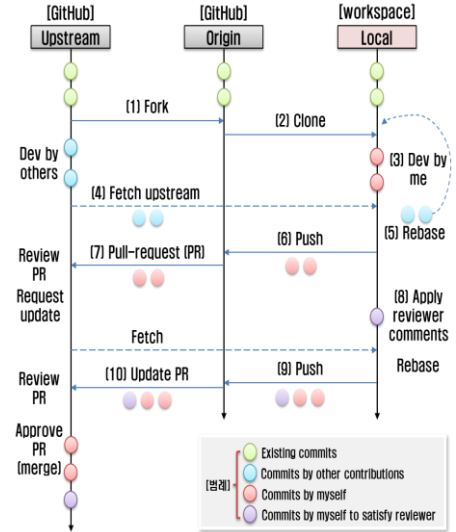
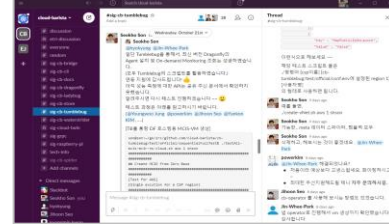
kubernetes

## Cloud-Barista (멀티 클라우드 서비스 SW)

- Cloud-Barista Community 창립 멤버
- Cloud-Barista 콘텐츠 소유자 (maintainer)
  - 소스에 대한 리뷰 및 승인 권한 (approve/review)
  - 리딩 프로젝트: **CB-Tumblebug** (프레임워크 리더)



## GitHub 관리 방식 및 권한 설정



Cloud-Barista 릴리스 발표

소통채널(Slack)

컨트리뷰션 워크플로우

# Reduce License Risk



손석호

우수 참여자 · 8월 16일 오후 6:56 · 0

...

이미 많은 분들이 소식을 알고 계시겠지만~  
그래도 공유 드립니다. 한.. 5일쯤 전에, HashiCorp가 Terraform 등주요 프로젝트의 라이선스를  
오픈소스 라이선스인 MPL v2에서 다소 상업적인 라이선스에 가까운 BSL v1.1로 변경하였습니다.  
(신규 버전에만 적용)

<https://www.hashicorp.com/.../hashicorp-adopts-business...>

<https://github.com/hashicorp/terraform/blob/main/LICENSE>

이 BSL 라이선스에는 아래와 같은 문구가 있기도 합니다.

*Additional Use Grant: You may make production use of the Licensed Work, provided such use does not include offering the Licensed Work to third parties on a hosted or embedded basis which is competitive with HashiCorp's products.*

관련해서는 다양한 아티클들이 나오고 있고, Terraform, Vault 등을 활용하는 솔루션들의 대응 방식  
등등도 기사화되고 있네요.

<https://thenewstack.io/hashicorp-abandons-open-source.../>

다소 지각변동?이 있을 수 있겠군요..



Hoon Jo, 배규태 및 외 46명

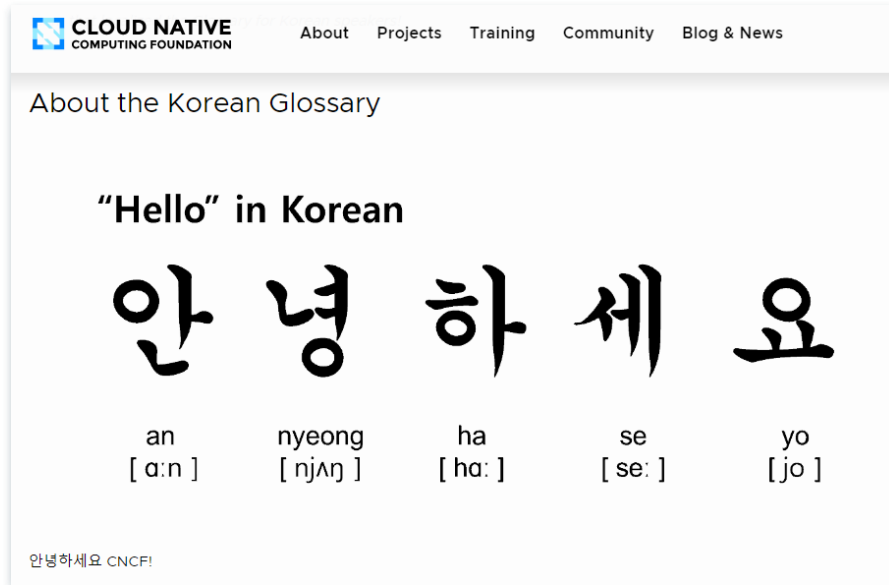
댓글 2개 공유 9회

Terraform: MPL v2 → BSL v1.1



- 오픈소스를 활용하지 않을 수는 없다.
  - 오픈소스 정책 변화에 대응은 쉽지 않다.
  - 상시 오픈소스 관리 조직을 두기 쉽지 않다.
- 자율적인 커뮤니티/기여 활동 장려  
(How? 업스트림 푸시, 행사 참여 지원, 홍보 지원, 격려 등)
- 기여 멤버에 의한 시너지 활용 가능!

# Will showcase your institute worldwide



CLOUD NATIVE COMPUTING FOUNDATION

About Projects Training Community Blog & News

## About the Korean Glossary

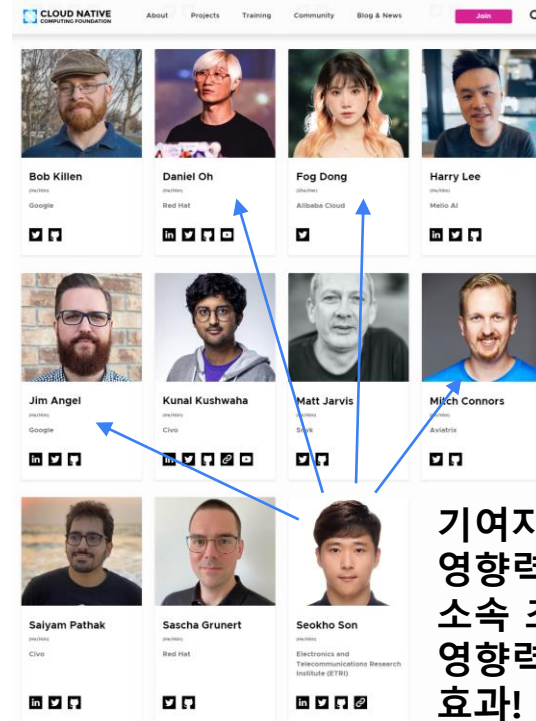
### "Hello" in Korean

안녕하세요

an [a:n]    nyeong [njʌŋ]    ha [ha:]    se [se:]    yo [jo]

안녕하세요 CNCF!












<https://www.cncf.io/blog/2022/09/23/cloud-native-glossary-the-korean-version-is-live/>



CLOUD NATIVE COMPUTING FOUNDATION

About Projects Training Community Blog & News

Join

 <b>Bob Killen</b> member Google	 <b>Daniel Oh</b> member Red Hat	 <b>Fog Dong</b> member Alibaba Cloud	 <b>Harry Lee</b> member Mellor AI
 <b>Jim Angel</b> member Google	 <b>Kunal Kushwaha</b> member Clou	 <b>Matt Jarvis</b> member	 <b>Mitch Connors</b> member Aristatic
 <b>Saiyam Pathak</b> member Clou	 <b>Sascha Grunert</b> member Red Hat	 <b>Seokho Son</b> member Electronics and Telecommunications Research Institute (ETRI)	

기여자의 커뮤니티  
영향력이 커지면  
소속 조직의  
영향력도 올라가는  
효과!

# Starting Points for Contribution

# CNCF Cloud Native Glossary

**Cloud Native Glossary**

The Cloud Native Glossary aims to make the cloud native space — which is notorious for its complexity — simpler for people by making it easier to understand, not only for technologists but also for people on the business side. To achieve that, we focus on simplicity (e.g., simple language free from buzzwords, examples anyone using technology can relate to, leaving unnecessary details out). The Glossary is a project led by the CNCF Business Value Subcommittee (BVS).

**Contributing**

Everybody is invited to suggest changes, additions, and improvements to the Cloud Native Glossary. We employ a community-driven process

## Trusted Vendor-neutral Community-driven

### Cloud Native Technology

Problem

#### What it is

Cloud native technologies, also referred to as the cloud native stack, are the technologies used to build **cloud native applications**. These technologies enable organizations to build and run scalable applications in modern and dynamic environments such as public, private, and hybrid clouds, while leveraging **cloud computing** benefits to their fullest. They are designed from the ground up to exploit the capabilities of cloud computing and containers, service meshes, microservices, and immutable infrastructure exemplify this approach.

#### Problem it addresses

The cloud native stack has many different technology categories, addressing a variety of challenges. If you have a look at the **CNCF Cloud Native Landscape**, you'll see how many different areas it touches upon. But on a high level, they address one main set of challenges: the downsides of traditional IT operating models. Challenges include difficulties creating scalable, fault-tolerant, self-healing applications, as well as inefficient resource utilization, among others.

#### How it helps

While each technology addresses a very specific problem, as a group, cloud native technologies enable loosely coupled systems that are resilient, manageable, and observable. Combined with robust automation, they allow engineers to make high-impact changes frequently and predictably with minimal toil. Desirable traits of cloud native systems are easier to achieve with the cloud native stack.

# CNCF Cloud Native Glossary

The screenshot shows the GitHub repository page for 'cncf / glossary'. The repository is public and has 30 watchers, 431 forks, and 543 stars. The main branch is 'main'. A recent pull request by 'castrojo' is highlighted. The repository description states: 'The CNCF Cloud Native Glossary Project aims to define cloud native concepts in clear and simple language, making them accessible to anyone — whether they have a technical background or not (<https://glossary.cncf.io>).' The repository includes a README, Apache-2.0 license, Code of conduct, and Activity. A table of files and folders is shown below.

File/Folder	Description	Last Update
.github	[dev-fr] Add missing sestegra for merge	2 weeks ago
assets	chore: Fix whitespace and a few trivial typos (#22...	3 days ago
content	Merge pull request #2237 from guillaumebernard...	2 days ago
i18n	Merge remote-tracking branch 'upstream/main' i...	last month
layouts	Tweaks to footer layout	3 months ago
static	Update social share image to include image on h...	3 months ago
themes	New Hugo Site (#229)	2 years ago
.devcontainer.json	Add codespaces support (#1613)	5 months ago
.gitignore	Updating how server is launched locally (#2222)	last week
.gitmodules	New Hugo Site (#229)	2 years ago

The screenshot shows the 'Contributors' and 'Languages' sections of the GitHub repository page. The 'Contributors' section displays 171 contributors and a link to '+ 160 contributors'. The 'Languages' section shows a bar chart with the following data:

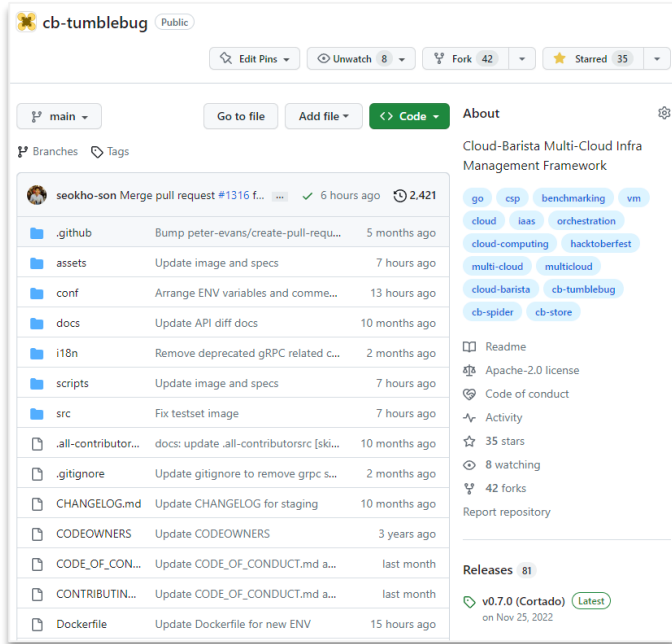
Language	Percentage
HTML	50.8%
SCSS	32.7%
JavaScript	15.4%
Other	1.1%

[github.com/cncf/glossary](https://github.com/cncf/glossary)





# Cloud-Barista with Cloud-Migrator

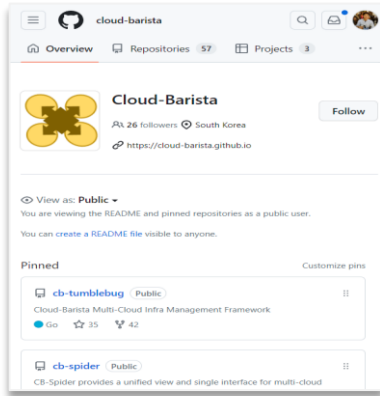


<https://github.com/cloud-barista/cb-tumblebug>

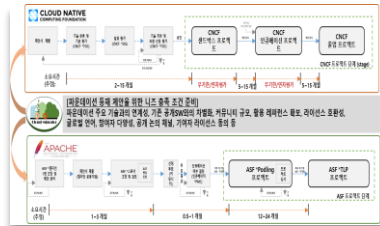


<최적배치 기반의 멀티클라우드 기반 영상 회의 서비스 시나리오>

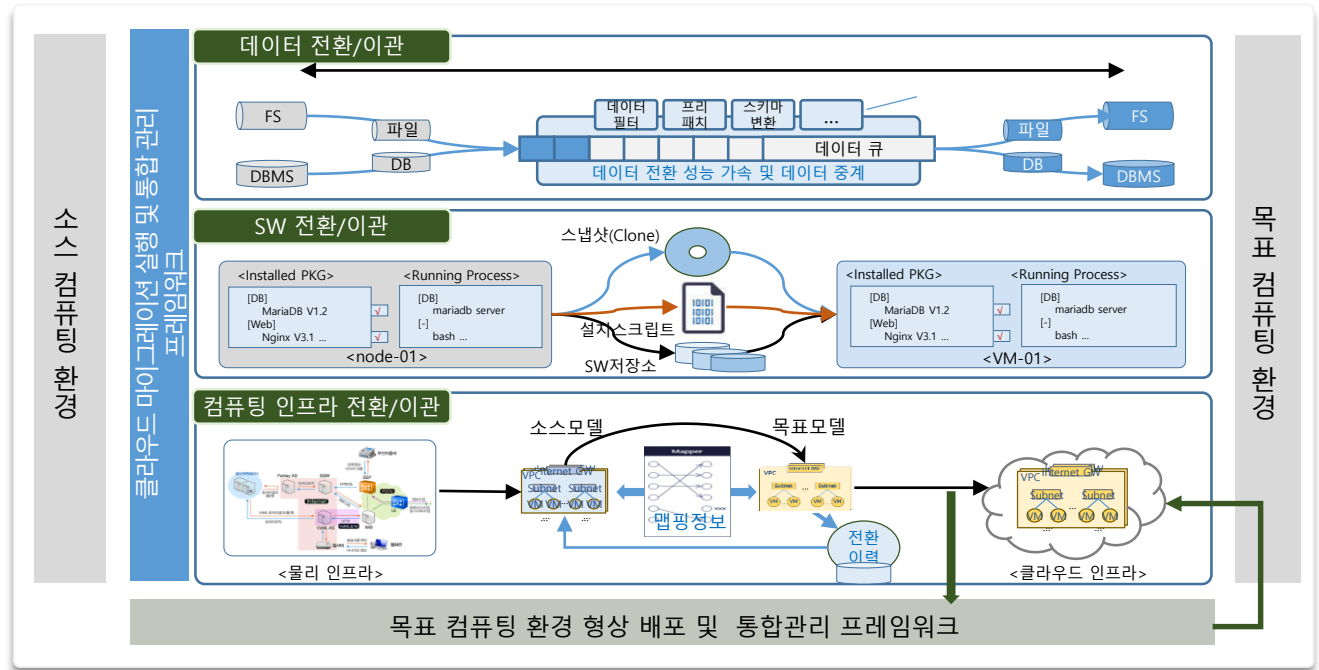
# Cloud-Barista with Cloud-Migrator



<https://github.com/cloud-barista>



글로벌 오픈소스 파운데이션 등재 추진



Cloud-Migrator

# New initiative: Cloud Native Sustainability Week

**Cloud Native Sustainability Week**

ENVIRONMENTAL SUSTAINABILITY

Cloud Native Sustainability Week Meetups

17	Italy, Milan	Oct.9	tbd	Michel Murabito, Federica Leonino
18	Korea, Seoul	Oct.13	tbd	Seokho Son, Hoon Jo
19	Luxembourg, Luxembourg	Oct.10	Link	Stéphane Este-Gracias (@sestegra)

환경 지속 가능성에 초점을 맞춘 글로벌 이벤트  
(10월 둘째 주) 글로벌 가상 이벤트와 27개의 현지 밋업 개최

**우리나라에서도 열립니다!**

<Cloud Native Sustainability Week in Seoul>은 27개 도시 중 대한민국의 서울에서 열리는 행사입니다.



- 행사명: Cloud Native Sustainability Week in Seoul
- 일시: 2023년 10월 13일 금요일 19시
- 장소: LG 유플러스 본사(서울 용산구 한강대로 32)
- 규모: 100명 및 온라인 200명 참관객 규모
- 주최: IT 인프라 엔지니어 그룹, OpenInfra 한국 커뮤니티, Ubuntu 한국 커뮤니티
- 입장권
  - 일반 참관객 (유료)
  - 후원사 초대권

관련 정보: <https://tag-env-sustainability.cncf.io/cloud-native-sustainability-week/#meetup-locations> (서울 밋업 상세 페이지: 곧 오픈)

# Thank you

Open to questions: <https://www.linkedin.com/in/seokho-son>

**ETRI**



**CLOUD NATIVE  
COMPUTING FOUNDATION**