Knative 2020 Annual Report

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About This Report

The purpose of this report is to share highlight of events and milestones in the Knative Project's community. The data included in this report is taken from the project's public dashboard (knative.teststats.cncf.io) and GitHub organization.

If you have any comments or feedback about this report, please reach out to the steering committee at steering@knative.team

Project Snapshot

This data is taken from the public Knative dashboard

For the last year, we have had:
- 768 unique contributors
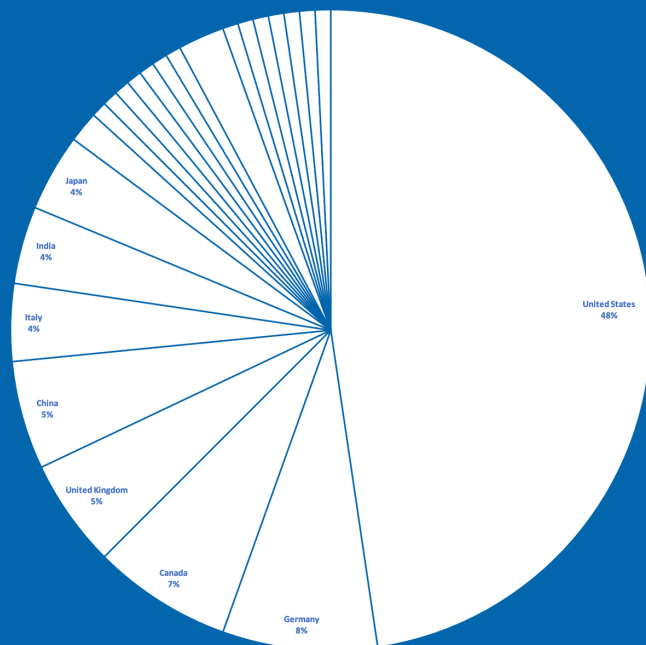- 1654 repository watchers

Growth since 2019

Our most starred repository continues to be Knative Serving with 3.4k stars. This is up 30% (2.6k stars) from the same time last year.

We have received more than 10 contributions from approximately 36 companies. This is a 25% (~29) increase from last year!

Geographic Location

We have contributors distributed across 24 countries, with the most contributions coming from the United States, and the second-most contributions coming from Germany.

Japan 4%
India 4%
Italy 4%
China 5%
United Kingdom 5%
Canada 7%
Germany 8%
United States 48%

Contributing Companies

Our top 5 contributing companies for the past year are VMware, Google, RedHat, IBM, and TriggerMesh.

Releases

We have continued with the 6-week release cycle!

In the Knative GitHub Org, we had a total of 155 releases!
- 7 repositories with releases
- 36 minor releases
- 119 patch releases

In the Knative Sandbox GitHub Org, we had a total of 64 releases!
- 18 repositories with releases
- 45 minor releases
- 19 patch releases

Thank you to all our community members for contributing to these releases!

Release Highlights

Knative Sandbox

We introduced the Knative Sandbox GitHub organization as a place where extensions to Knative are hosted. The sandbox contains repos with varying maturity levels; all of the existing network and source/channel integrations have been moved to this organization.

New Ingress Controllers

In 2020, we introduced Contour and Kong as new ingress controllers for Knative. This adds onto our existing set of ingress controllers (Istio, Kourier, Ambassador, Gloo).

Eventing API

In case you haven't heard, Knative Eventing APIs are now v1! This has been something that the team has been working hard towards, so congratulations and thank you to the Eventing WG!

There are also new Brokers in eventing: Kafka and RabbitMQ. Make sure to try these out and give any feedback you may have to the team.

New Event Sources

We have ~8 new event sources created this past year:

- Cloud Build
- MongoDB
- Redis Stream
- RabbitMQ
- DockerHub
- Slack
- Zendesk
- AWS Services

Community Highlights

The steering committee introduced a lot of new governance changes in the Knative community this past year. The Technical Oversight Committee (TOC) and Steering Committee (SC) are now both formed by community-held elections, with a no-vendor majority rule. In addition to this, the Trademark Committee was formed in an effort to focus on issues which relate to the trademark and conformance.

Newly Elected TOC and Steering Members!
In May 2020, we held elections for the TOC and welcomed three new committee members! Welcome Nghia Tran, Markus Thömmes, and Grant Rodgers.

We also just wrapped up our first SC elections and welcomed our newly elected steering members. Welcome Paul Morie and Ville Aikas! We are so excited to have you onboard.

Knative in the Wild

Knative Eventing is now GA in OpenShift Serverless 1.11. Read more about it here.

Cloud Run for Anthos now ships with Knative Eventing. Read about it here.

IBM announced the beta availability of IBM Code Engine. You can find more details about this beta here.

TriggerMesh announced 1.0 of their Cloud Native Integration Platform. You can read the announcement here.

VMware's Event Broker Appliance just released 0.5.0 which now has supports Knative Eventing. Make sure to check out more details here.

Community Events

This year looked a bit different than prior years with COVID-19. That being said, we are grateful that Knative community events were still able to be held virtually!
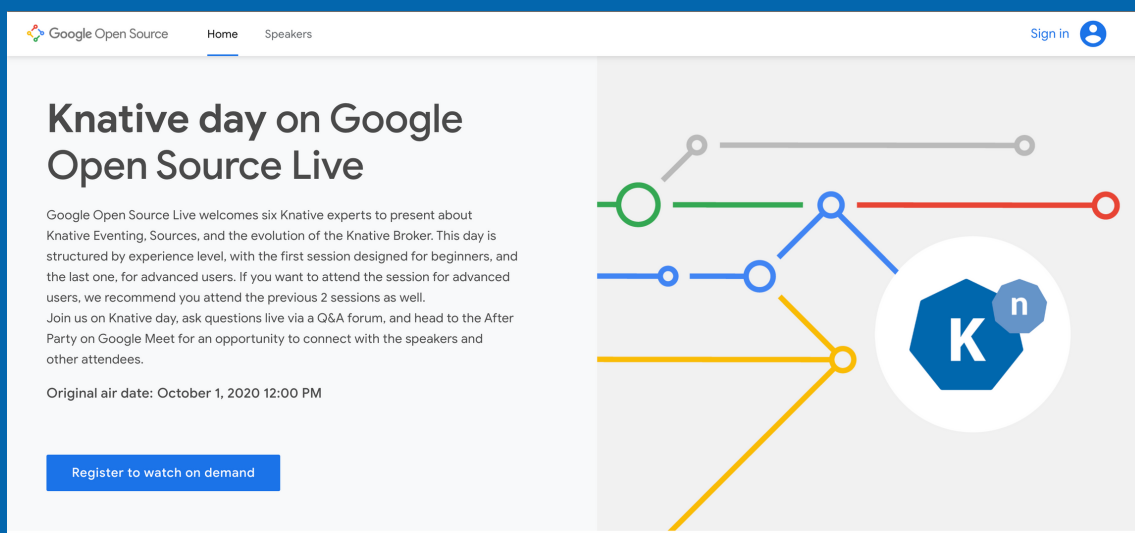
S&P experience report: multi-cloud serverless on Knative
In October, 2020, S&P and VMware presented a webinar on how S&P has used Knative to build a serverless developer experience. Make sure to catch the recording or take a look at the slides!

Knative day on Google Open Source Live
In October 2020, Google Open Source Live also hosted a Knative Day where folks from the community were able to present about Knative Eventing, Sources, and the evolution of the Knative Broker. Make sure to visit the link to catch a recording of Knative Day!

The State of Knative Virtual Panel
A few Knative steering members and community members were invited to participate in a virtual panel where we discuss community governance, the state of the project, and maturity of the project. Make sure to catch the recording here!

Event-Driven Applications with Knative
There was a KubeCon NA office hours with a few Knative contributors where they demo event-driven applications with Knative and open up the discussion with Q&A. Take a look at the recording here.

Community Meetings

The community has regular meetings where folks share demos of using Knative in action. In 2020, we had 7 community meetings and you can catch all of the demos on Knative YouTube channel.

List of Knative Talks

If you'd like more demos and talks about the Knative project, make sure to check out the list here!

Come Join Us!

Knative is an open source project that anyone in the community can use, improve, and enjoy. We'd love ❤ you to join us!

Visit https://knative.dev/community for more information or join the Knative Slack.