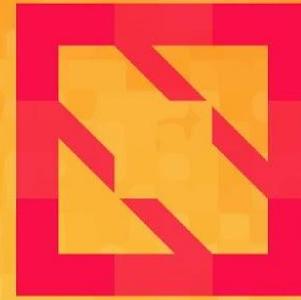




KubeCon



CloudNativeCon

North America 2019





KubeCon



CloudNativeCon

North America 2019

SIG Release - Deep Dive: Release Engineering Subproject

Stephen Augustus (VMware)
Hannes Hörl (Pivotal)



Outline



KubeCon



CloudNativeCon

North America 2019

- Why do we need the Release Engineering Subproject?
- What happened in the last couple of months?
- What will (probably) happen in the next couple of months?

Why do we need the Release Engineering Subproject?



KubeCon



CloudNativeCon

North America 2019

- Make it possible for non-Googlers to do a release end-to-end
 - Some things can still only be done by Googlers and need to move into community controlled infra and process
- Make the release process better, easier and safer
 - Refactor into safer & better maintainable ~~code processes~~ things
 - Building an publishing artefacts and packages
 - Add new features (e.g.: signing)
- Make it easier to bring new people to the release team

What happened in the last couple of months?



KubeCon



CloudNativeCon

North America 2019

... a **LOT** ...

What happened in the last couple of months?



KubeCon



CloudNativeCon

North America 2019

... new **people** ...

... with new views, ideas, expertise, ...

What happened in the last couple of months?



KubeCon



CloudNativeCon

North America 2019

... also some tech & processes ...

What happened in the last couple of months?



KubeCon



CloudNativeCon

North America 2019

Some little process tweaks around how we do releases and [doc improvements](#)

saschagrunert commented 3 days ago • edited by justaugustus

Scheduled to happen: Tue, 2019-11-05

- Screenshot unhealthy `release-1.17` branch testgrid boards and add them as a comment
- Stage & release
 - Notify #release-management: see notification
- Send notification email

Release steps

Step	Command	Link	Start
Mock stage	<code>./gcbmgr stage release-1.17 --build-at-head</code>	https://console.cloud.google.com/cloud-build/builds/06cfa5df-3e89-453f-9ddb-80a8a95e1e3e7?project=648026197307	5 Nov 2019 3:20:58 PM CET
Mock release	<code>./gcbmgr release release-1.17 --buildversion=v1.17.0-beta.0.188+3d13137d1b45e4</code>	https://console.cloud.google.com/cloud-build/builds/0f5cfcef-de1b-4542-b3a6-0a8a95e1e3e7?project=648026197307	5 Nov 2019 4:16:13 PM CET
Stage	<code>./gcbmgr stage release-1.17 --build-at-head --nomock</code>	https://console.cloud.google.com/cloud-build/builds/b5b7a6e6-b84c-46eb-a9e6-094307f48b64?project=648026197307	5 Nov 2019 5:11:52 PM CET
Release	<code>./gcbmgr release release-1.17 --buildversion=v1.17.0-beta.0.188+3d13137d1b45e4 --nomock</code>	https://console.cloud.google.com/gcr/builds/21409b07-da4e-4b97-be6f-79e25c6bbc2?project=648026197307	5 Nov 2019 05:58:31 PM CET
Notify	--		

Action items

Notes taken during the release creation process

- /milestone v1.17
- /assign @justaugustus

Testgrid dashboards

Boards checked for FAILING:

- sig-release-1.17-blocking
- sig-release-1.17-informing

2019-11-05 17:51:07+0100 FAILING sig-release-1.17-informing#gce-cos-k8sbeta-serial [testgrid]

What happened in the last couple of months?



KubeCon



CloudNativeCon

North America 2019

git.k8s.io/test-infra/images/builder/

in collab with test-infra

now allows prow to not only use Google Cloud Build to build images
but to run arbitrary cloud build jobs
and still have all other test-infra/prow goodies (logs, testgrid, ...)

What happened in the last couple of months?



KubeCon



CloudNativeCon

North America 2019

We (are starting to) manage our project, buckets, access, ...
in git.k8s.io/k8s.io and with the tools from [WG-k8s-infra](#)

⇒ easier to onboard people

What happened in the last couple of months?



KubeCon



CloudNativeCon

North America 2019

Unifying and Simplifying how we build deb & rpm packages

Builds run:

- in containers
- on a schedule
- powered by prow (logging, testgrid, ...)

What happened in the last couple of months?



KubeCon



CloudNativeCon

North America 2019

Say hi to:

[krel](#)

What happened in the last couple of months?



KubeCon



CloudNativeCon

North America 2019

krel

```
krel push # push-build.sh
```

```
krel ff   # branchff
```

```
... more to come ...
```

What will (probably) happen in the next couple of months?



KubeCon



CloudNativeCon

North America 2019

... a **LOT** ...

What will (probably) happen in the next couple of months?



KubeCon



CloudNativeCon

North America 2019

Host signed debs & rpms on community infra

Push more stuff to krel / GCB

kubepkg

better / unified release notes tooling

and probably way more ...

Learning More



KubeCon



CloudNativeCon

North America 2019

SIG Release: <https://github.com/kubernetes/sig-release>

Release Engineering: <https://github.com/kubernetes/release/>

Project board: <https://github.com/orgs/kubernetes/projects/30>

Slack: #release-management / #sig-release

Groups: release-managers@kubernetes.io /
kubernetes-sig-release@googlegroups.com

Contact us



KubeCon



CloudNativeCon

North America 2019

Stephen:

- stephen.k8s@agst.us
- @justaugustus (Slack / GitHub)
- @stephenaugustus (Twitter)

Hannes:

- hhorl+k8s@pivotal.io
- @hhorl (Slack) / @hoegaarden (GitHub)



KubeCon



CloudNativeCon

North America 2019

Any questions or feedback?



KubeCon



CloudNativeCon

North America 2019

Thanks!

Enjoy the rest of KubeCon!