



KubeCon



CloudNativeCon

Europe 2022

CDEvents in Jenkins and Keptn

What's next?

Oleg Nenashev

Dynatrace / Keptn / Jenkins / CDF TOC

May 2022





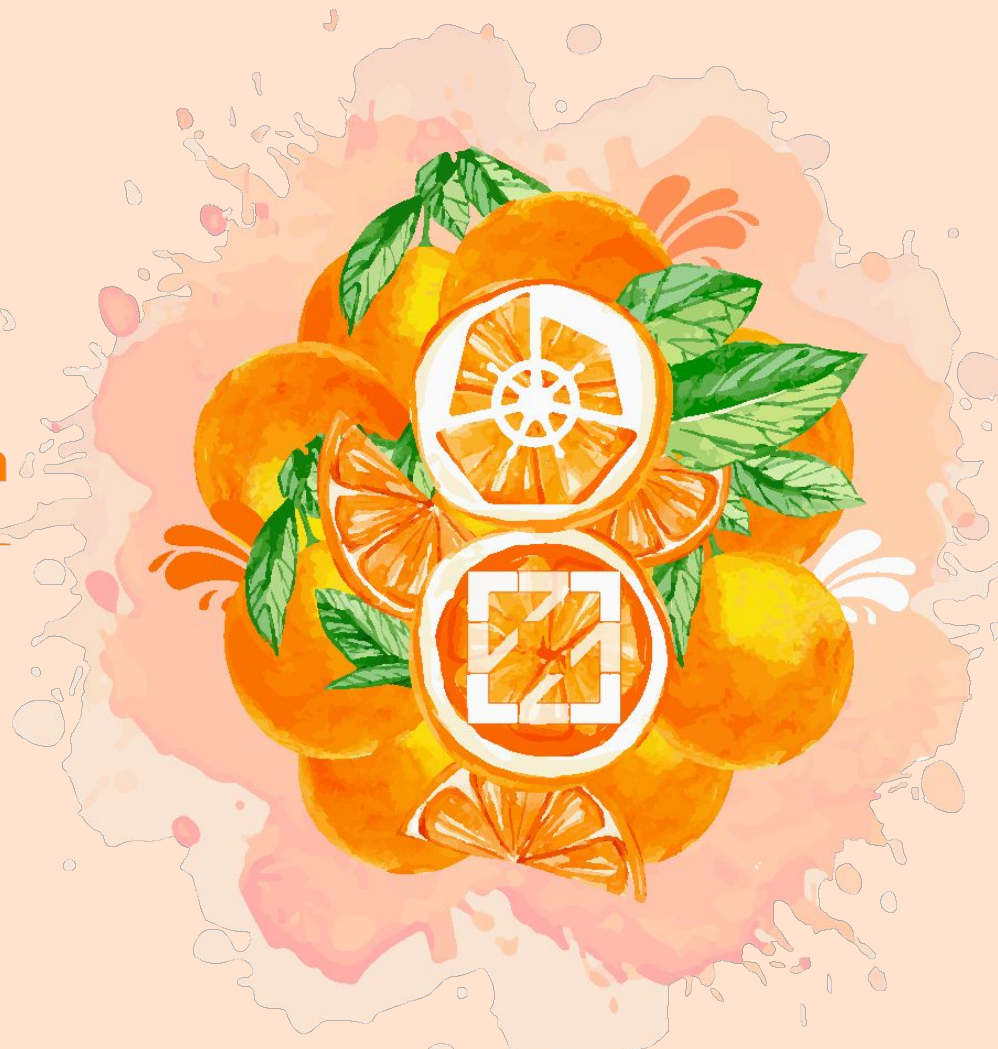
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WELCOME TO VALENCIA



> whoami



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Disclaimer

- Opinions are my own, happy to discuss
- My talk does not represent opinions of my employer, the Continuous Delivery Foundation, or the communities
- I present only open source projects today





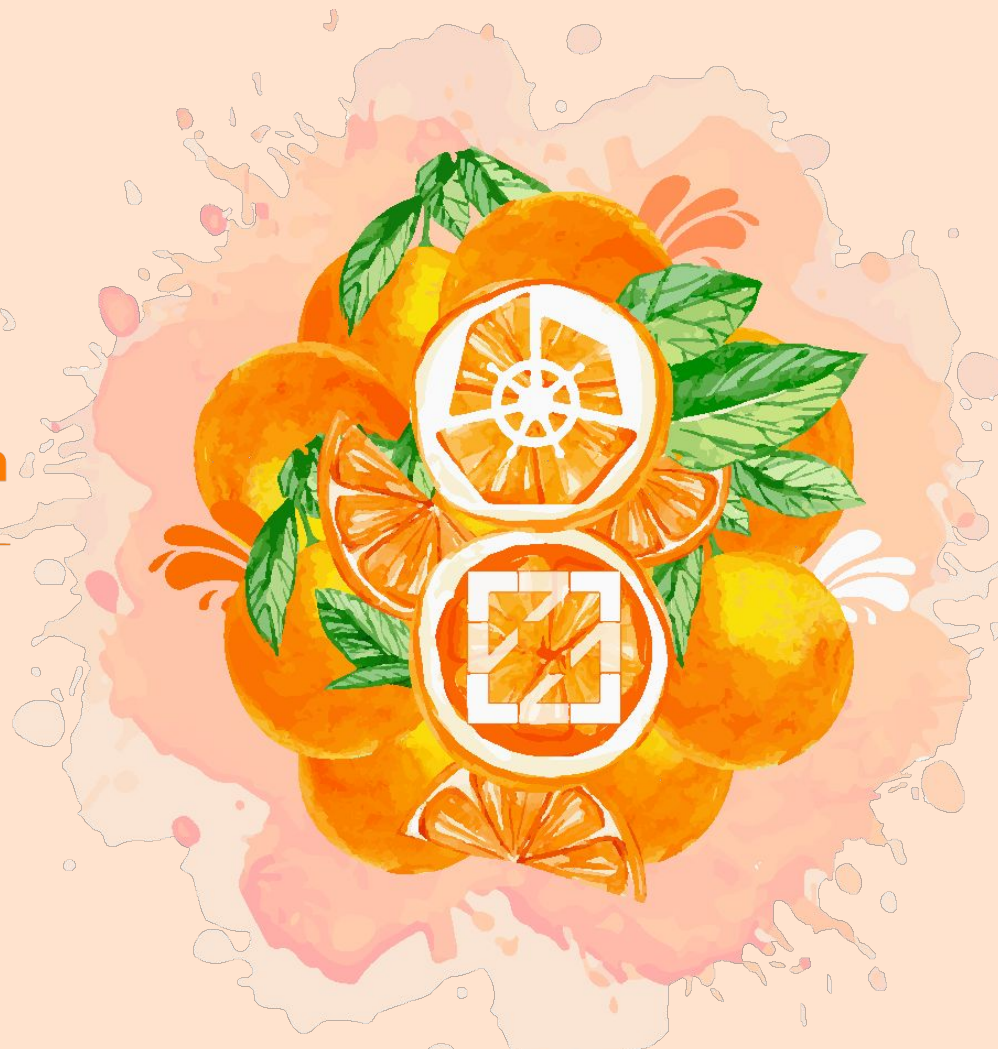
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Open source standards
for the win!

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for the win!

CDEvents becomes an Open Observability Standard



Prometheus



Thanos



cloudevents



OPEN METRICS



JAEGER



cortex



Grafana

Becoming an industry standard

- Public announcements
- Alpha release
- Growing adoption
- General availability



Adoption in the ecosystem



Keep CDF Events SIG growing

- Help CI/CD systems to talk to each other in a standardized way
- Provide interoperability through better communication and abstraction
- How?
 - Introduce new standards
 - Facilitate adoption of communication standards



cloudevents.io



github.com/eiffel-community



<https://github.com/cdfoundation/sig-events>

Adopting CDEvents in Jenkins





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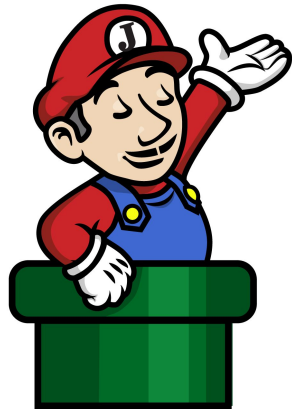
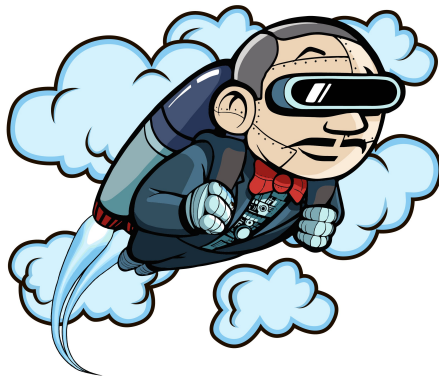
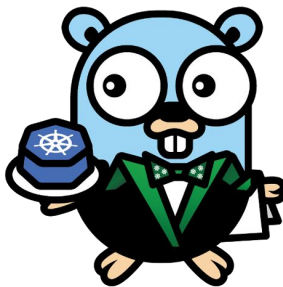
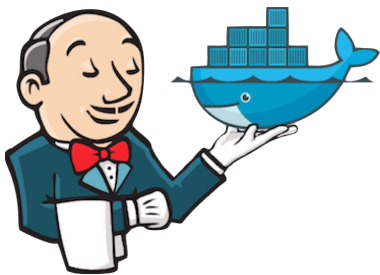


Jenkins keeps evolving



Modern Jenkins

- Pipeline-as-Code
- Configuration-as-Code
- New plugins and integrations
- Modern packaging
- Distributions for public clouds



Google Cloud



Jenkins is a part of open ecosystem

- Jenkins remains automation server/framework
- Ecosystem is a key for us
- Focus on integrations and interoperability
- jenkins.io/project/roadmap

CDEvents and Jenkins

- Updating the CloudEvents plugin by Shruti
- CDEvents trigger for Jenkins
- Pipeline steps for producing events



Adopting CDEvents in Keptn



CDEvents in Keptn

1. Adapt Keptn to CDEvents
 - a. keptn/spec/.../cloudevents.md
 - b. Triggering sequences, e.g. for deployment
2. Produce CDEvents in sequences
 - a. Automatic events for Keptn stages
 - b. Generic sequence steps
3. Adopt CDEvents in Keptn internals
 - a. Produce CDEvents when deploying Keptn

Keptn CloudEvents

- Project
- Service
- Approval
- Deployment
- Rollback
- Test
- Evaluation
- Release
- Get-Action
- Action
- Get-SLI
- Monitoring
- Problem
- Error Log

“Application Lifecycle Events”?

- Keptn Specification is wider than CDEvents
 - SLI/SLO events
 - Monitoring and Alerts
 - Evaluation
 - Release / Rollback
- There're benefits for other projects

Keptn CloudEvents

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Generalize Keptn Events as a new standard?

- Option A: Part of CDEvents
- Option B: New standard within the CDF



THE END

Thank you!

- CDF SIG Events
- CDEvents contributors
- Shruti Chaturvedi
- Jenkins and Keptn contributors



Takeaways

- CDEvents is a great opportunity for the CDF
- Joint interest between member projects and companies
- Jenkins and Keptn plan adopting CDEvents alpha
- Something you want to adopt too

For today's discussions

- Announcements and adoption strategy
- Using the CDF TOC's budget grant
 - 10K USD for project's evolution
- “Application Lifecycle Events”?



QUESTIONS?

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