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KubeCon



CloudNativeCon

North America 2021



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SIG-Apps Updates

Janet Kuo (@janetkuo)

Kenneth Owens (@kow3ns)

Maciej Szulik (@soltys)

Mission



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Deploying
and
operating
applications
in
Kubernetes

[Charter](#)



[Annual Report](#)

Chairs:

Janet Kuo (@janetkuo), Google

Kenneth Owens (@kow3ns), Brex

Maciej Szulik (@soltys), Red Hat

Meetings:

Biweekly on Mondays (next October 18th)

at 06:00 PM CEST / 12:00 PM EDT / 09:00 AM PDT

Slack Channel:

[#sig-apps](#)

Email group:

kubernetes-sig-apps@googlegroups.com

New chair:

Maciej Szulik (@soltys) was nominated in February

Emeritus chairs:

Adnan Abdulhussein (@prydonius) resigned in February

Matt Farina (@mattfarina) resigned in June

KEP-19: Graduate CronJob to stable

- [Release Signoff Checklist](#)
- [Summary](#)
- [Motivation](#)
 - [Goals](#)
- [Proposal](#)
 - [Plan for promoting CronJob to GA](#)
 - [Existing controller](#)
 - [New controller](#)
 - [Informers and Caches](#)
 - [Multiple workers](#)
 - [Handling Cron aspect](#)

CronJob (v1.21)

PodDisruptionBudget get (v1.22)

KEP-85: Graduate PodDisruptionBudget to stable

- [Release Signoff Checklist](#)
- [Summary](#)
- [Motivation](#)
 - [Goals](#)
- [Proposal](#)
 - [Implementation Details/Notes/Constraints](#)
 - [Promote Eviction to policy/v1 without breaking pods/eviction support for policy/v1beta1](#)
 - [Mutable PDBs](#)
 - [Eviction of non-ready pods](#)
 - [Make the disruption controller more lenient for pods belonging to non-scale controllers](#)
 - [Address scalability issues with the disruption controller](#)
 - [Fix handling of empty selector in disruption controller](#)

New features - apps



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MaxSurge in DaemonSet (beta in v1.22)

Improve workload availability during rollout

MinReadySeconds in StatefulSet (alpha in v1.22)

Align controllers with readiness functionality

Random ReplicaSet downscale (beta in v1.22)

Improve failure domains

ReplicaSet Pod Deletion Cost (beta in v1.22)

Pod deletion hints during downscale

New features - batch



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Job suspension (beta in v1.22)

Enable external orchestrators

Indexed Job (beta in v1.22)

Enable embarrassingly parallel tasks

Job tracking without lingering Pods (alpha in v1.22)

Improve status calculation

Future plans

[TTL after finish](#) (planned GA in v1.23)

Cleanup jobs & pods

[MinReadySeconds in StatefulSet](#) (planned beta in v1.23)

Align controllers with readiness functionality

[Autoremove PVCs created by StatefulSet](#) (planned alpha in v1.23)

Automatic storage cleanup

[maxUnavailable for StatefulSets](#) (planned alpha in v1.23)

Improved rollouts

Future future plans

Consolidate workloads status

Ease of use

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Questions?

Thank You