Kubernetes Scheduling Interest Group - **Descheduler** project Meeting notes

Schedule:
We use the Zoom video conferencing software. You can download it at http://zoom.us/

- Changed times: biweekly alternating between 14:30 CET and 19:30 CET
    - First one with new time 19:30 CET Feb 13 2024

      Meeting:

      Google Calendar link

      Password: 77777

      https://zoom.us/j/841218129?pwd=MzZkTGREcmpISWhhMjlqTHRqRERvQT09

      Or Dial by your location

      +1 669 900 6833 US (San Jose)

      +1 646 558 8656 US (New York)

      Meeting ID: 841 218 129

      Find your local number: https://zoom.us/u/a1OPUsMzl

If you have a topic, please propose it with a specific date by leaving a comment on the next page of this document.
Please join kubernetes-sig-scheduling group to receive updates and meeting invites.

Recordings:
https://youtube.com/playlist?list=PLEafaZMk8MYYqoSncOkL8uutIcTsUQE_g

Social:
We are using the Kubernetes Slack team for online chat: #sig-scheduling on kubernetes.slack.com, contact organizers for an invite.
Code of Conduct:
https://kubernetes.io/community/code-of-conduct/

Organizers:
Lucas Severo Alves: lucassalves65@gmail.com (lseveroa@redhat.com)
Mike Dame: mikedame@google.com
Jan Chaloupka: jchaloup@redhat.com
Amir Alavi: amiralavi7@gmail.com

Future Agenda Items (Backlog)

- [ingvagabund] KEP-1397: descheduler integration with evacuation API as an alternative to eviction API: https://github.com/kubernetes-sigs/descheduler/pull/1354
- Descheduler user use cases

- NodeFit options
- V1alpha2
- OpenTelemetry tracing
- Custom tags for eviction metrics (Issue)
- Roadmap for the project [?]

July 16, 2024 2:30pm CET [canceled]

- [ingvagabund] KEP: Extend descheduler eviction handling for eviction requests (the current state)
    - https://github.com/kubernetes-sigs/descheduler/pull/1354
    - Anything left before the first iteration of the proposal is approved/merged?
- [ingvagabund] removing v1alpha1 from v0.31.0
    - https://github.com/kubernetes-sigs/descheduler/issues/1375

July 2, 2024 7:30pm CET [canceled]

June 18, 2024 2:30pm CET [canceled]

June 4, 2024 7:30pm CET [canceled]

May 21, 2024 2:30pm CET [canceled]

May 7, 2024 7:30pm CET [canceled]

Apr 23, 2024 2:30pm CET [moderator:???]

- [ingvagabund] Descheduling framework KEP: https://github.com/kubernetes-sigs/descheduler/pull/1372
- [ingvagabund] New issue for removing v1alpha1 from v0.31.0: https://github.com/kubernetes-sigs/descheduler/issues/1375

Apr 9, 2024 7:30pm CET [canceled]

Mar 26, 2024 2:30pm CET [moderator: knelasevero]

- V1aplha1, v1alpha2, v1alpha3, …
    - V1alpha1 should be deprecated (if not, let's make so) or removed (with announcement)
        - Next release

        - Mailing list, issue, release notes,
    - Helm: update to have v1alpha2 as the default version
    - Wrap up v1alpha2 and announce it as complete
- Framework wrap up update and next steps
    - https://github.com/kubernetes-sigs/descheduler/issues/1187
    - Turn the framework proposal into a KEP for us
- KEPs -> implement our process and have designs to share and our mini-internal-KEPs to have our designs explained and documented
    - Come up with templates so people can easily use those

Mar 12, 2024 19:30 CET [moderator: ingvagabund]

- Update community page and other references to the meeting time
- KEP: Extend descheduler eviction handling for eviction requests
    - https://github.com/kubernetes-sigs/descheduler/pull/1354
    - Comming from https://github.com/kubevirt/community/pull/258
    - Where do we put descheduler proposals? Under https://github.com/kubernetes-sigs/descheduler or https://github.com/kubernetes/enhancements/tree/master/keps/sig-scheduling ?
    - This is also relevant: https://github.com/kubernetes-sigs/descheduler/issues/1340#issuecomment-1991443606 since if we want to consider the "history" of previous skips or previous evictions, cronjob approach also makes less and less sense
    - Actions:
        - revisit Filip's evacuation API
        - extend the descheduler with feature gating to flip between eviction API and evacuation API
        - Discuss the evacuation API with the kubevirt folks
- KEP4328: Affinity Based Eviction
    - https://github.com/kubernetes/enhancements/pull/4329
    - Actions/thoughts:
        - Make deprecation of the descheduler RemovePodsViolatingNodeAffinity part of the proposal
        - It will be harder to extend the proposal later so if there's anything to put there we need to do it before it gets accepted
        - RemovePodsViolatingNodeAffinity has NodeFit functionality and is global scoped configured, the upstream implementation will be per-pod base => There are currently disparities in the functionality so the descheduler might actually keep the strategy forever to provide the same user experience to existing descheduler users
- Complete Pod Eviction even if no other node candidate exists for rescheduling [jackfrancis]
    - https://github.com/kubernetes-sigs/descheduler/pull/1363

Feb 27, 2024 1:30pm UTC [canceled]

Feb 13, 2024 18:30pm UTC [moderator:]

- [Niki] NodeFit: add pod anti-affinity predicate

Jan 16, 2024 17pm UTC [moderator: knelasevero]

- [Filip Krepinsky] Discuss descheduling aspect of Declarative NodeMaintenance KEP
    - https://github.com/kubernetes/enhancements/pull/4213
- [Jan, Lucas]: 0.27.x and 0.26.x for fixing otel (backporting https://github.com/kubernetes-sigs/descheduler/pull/1293 to 1.27 and 1.26)
- [Lucas] discuss meeting cadence again and maybe having alternating times to accommodate more timezones
- [damemi] Consider opentelemetry metrics https://github.com/kubernetes-sigs/descheduler/issues/1338
    - Deprecate cronjob approach? [lucas]
    - https://github.com/kubernetes-sigs/descheduler/issues/1340
- [Jan] descheduler framework wrap up for next meeting

Nov 21, 2023 17pm UTC [moderator: knelasevero]

- 28.x, 27.x, 26.x releases patching
    - Get together on friday and get those releases out with vulnerability fixing and backporting to supported version
- Framework problems
    - Some PRs stuck with plugin implementations or with things we don't want to merge yet because of things still missing in the framework
    - Sort and PreEviction Sort can already be implemented
    - We want to wait for us to get rid of v1alpha1 before tackling some of the missing things of the framework
        - https://github.com/kubernetes-sigs/descheduler/issues/1187
            - Specially interface for users to easily register custom plugin
            - And less arguments in `pluginregistry.Register`
            - cachedClient and other items seem fine to be tackled
- Delete instead of evict
    - Amir has a PR, we can check the implementation and see what makes sense for us with regards to supporting this and what configurations we want
- Times for the community meeting
    - Check with folks that usually join if we can go back to bi-weekly but alternating times. This could get more folks to join for offering more options

Oct 24, 2023 17pm UTC [canceled]

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Aug 29, 2023 17pm UTC [canceled]

Aug 01, 2023 17pm UTC [canceled]

July 11, 2023 17pm UTC [moderator: ingvagabund]

- [ichekrygin] Discuss CRDs policy driven pod descheduling.
- [knelasevero - Lucas] Framework basically done, what's next?
    - https://github.com/kubernetes-sigs/descheduler/issues/1187
- Issue triaging/PR reviews

June 6, 2023 17pm UTC [moderator: ingvagabund]

- [damemi] Lucas's PR https://github.com/kubernetes-sigs/descheduler/pull/1162
- [a7i] NodeFit Spec https://github.com/kubernetes-sigs/descheduler/issues/1149

Apr 11, 2023 17pm UTC [moderator: a7i]

- [damemi] release 1.27 status check
- ~~[ichekrygin] Discuss CRDs policy driven pod descheduling.~~
- [damemi] Stuff to mention in upcoming talks/kubecon
    - framework + v1alpha2
    - customize behavior/ custom plugins
    - namespace filtering in all strategies
    - GitHub stats
    - Categories
        - Availability
        - Cost savings
        - Reliability
    - Oppotunity to ask for use-cases (see below)
- Collecting use-cases
    - Google forms to collect use-cases
    - Publish on the website
    -

Mar 28, 2023 17pm UTC [knelasevero - Lucas]

- Change meeting cadence

- Plugin index and implementation approach https://github.com/kubernetes-sigs/descheduler/issues/1089
- https://github.com/kubernetes-sigs/descheduler/pull/1100 1.27 bump failing
- Should we open a descheduler-dev dedicated channel on slack?
- Going over PRs together (if we have time)

Mar 14, 2023 17pm UTC [canceled]

Feb 28, 2023 17pm UTC [canceled]

Feb 14, 2023 17pm UTC [canceled]

- Descheduling loop: https://github.com/kubernetes-sigs/descheduler/issues/979

Jan 31, 2023 17pm UTC [canceled]

Jan 17, 2023 17pm UTC (moderator: ingvagabund)

- Descheduling framework update [ingvagabund, knelasevero]
    - Progress over the steps: https://github.com/kubernetes-sigs/descheduler/issues/753#issuecomment-1227422028
- KubeCon talk areas to discuss
    - Create doc to gather ideas ideas
- [Amir - a7i] Custom tags for eviction metrics (Issue)
- [Amir - a7i] greedy algorithm for least-eviction (link)

Jan 3, 2023 17pm UTC [canceled]

Dec 20, 2022 17pm UTC [canceled]

Dec 06, 2022 17pm UTC [canceled]

Nov 22, 2022 17pm UTC (moderator: knelasevero)

- 1.26 release https://github.com/kubernetes-sigs/descheduler/issues/940
- [damemi] (dentrax/harshanrayana): OpenTelemetry tracing
    - https://github.com/kubernetes-sigs/descheduler/issues/951
    - https://github.com/kubernetes-sigs/descheduler/pull/958
- [damemi]: logging woes
    - https://github.com/kubernetes-sigs/descheduler/issues/676

    - https://github.com/kubernetes-sigs/descheduler/issues/811
    - https://github.com/kubernetes-sigs/descheduler/issues/965
    - https://github.com/kubernetes-sigs/descheduler/pull/831
    - https://github.com/kubernetes-sigs/descheduler/issues/991
        - possibly fixed by https://github.com/kubernetes-sigs/descheduler/pull/993
- [knelasevero] revisit logo - push it forward
    - https://github.com/kubernetes-sigs/descheduler/issues/978
- [knelasevero] (dentrax) Discussion: Leader Election can't be enabled with dryRun
    - https://github.com/kubernetes-sigs/descheduler/issues/997
- [knelasevero] test if pod in chart works
    - https://github.com/kubernetes-sigs/descheduler/pull/937#issuecomment-1260712871 Which approach do we want to go forward with, now that both are possible
    - (if we have too many topics, we can move some to backlog)
- https://github.com/kubernetes-sigs/descheduler/pull/1003

Recording: https://youtu.be/nKIuiU1kDmw

Nov 08, 17pm UTC (moderator: ingvagabund)

- Going through conversion v1alpha1 -> v1alpha2:
    - https://github.com/kubernetes-sigs/descheduler/pull/974
    - https://github.com/kubernetes-sigs/descheduler/pull/999

Recording: Kubernetes SIG Scheduling DESCHEDULER Weekly Meeting for 20221108

Oct 25, 17pm UTC (canceled for KubeCon)

Oct 11, 17pm UTC (moderator: damemi)

- [ingvagabund] Exclusion of namespaces via preEvictionFilter extension point for node utilization plugins:
    - https://github.com/kubernetes-sigs/descheduler/pull/967
- [knelasevero - lucas] logo for the project
    - https://github.com/knelasevero/descheduler-logo-proposals
- [knelasevero] scc in e2e
    - https://github.com/kubernetes-sigs/descheduler/pull/975
- [knelasevero] options for how to run profiles
    - https://github.com/kubernetes-sigs/descheduler/pull/974#discussion_r991320137
- [knelasevero] test if pod in chart works
    - https://github.com/kubernetes-sigs/descheduler/pull/937#issuecomment-1260712871 Which approach do we want to go forward with, now that both are possible
    - (if we have too many topics, we can move some to backlog)

Recording: Kubernetes SIG Scheduling DESCHEDULER Weekly Meeting for 20221011

Sep 27, 17pm UTC (moderator: knelasevero)

- introduction minutes
- [damemi] descheduler project introduction + v1.25 release (+v1.25.1 release…)
- [ingvagabund] descheduling framework + kubecon 2023 europe talk
    - https://github.com/kubernetes-sigs/descheduler/issues/753
    - https://github.com/kubernetes-sigs/descheduler/issues/837
    - https://docs.google.com/document/d/1tWpXoZ6YF3ksnmueM2POwASdxoiLW8y7TXuWFxT8NSo/edit
    - https://github.com/kubernetes-sigs/descheduler/pull/955 (nodeFit discussion)
    - https://github.com/kubernetes-sigs/descheduler/issues/640 (nodeFit discussion)
    - Slides: https://docs.google.com/presentation/d/18zCp7o0e-317ZJElOjXDxwrYc7k8K7RR9RZ0SkKNIng/edit?usp=sharing
- [damemi] 1.26 release project board
    - https://github.com/orgs/kubernetes-sigs/projects/22
- open discussion

Recording: Kubernetes SIG Scheduling DESCHEDULER Weekly Meeting for 20220927

Sep 13, 17pm UTC (moderator: TBD)

- [username] subject.
- [username] subject:
    - link