AWS re:Invent

NOV. 29 – DEC. 3, 2021 | LAS VEGAS, NV

OPN303-R2

Working in the open with OpenSearch

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AWS

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AWS

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Today’s questions

1. Who are we and why are we here?
2. What are the challenges to OpenSearch and how are we meeting them?
3. What are we doing tactically?
4. What’s next and how can we improve?

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Who are we and why are we here?

- Nick and Charlotte
- What do we have in common?
- OpenSearch!

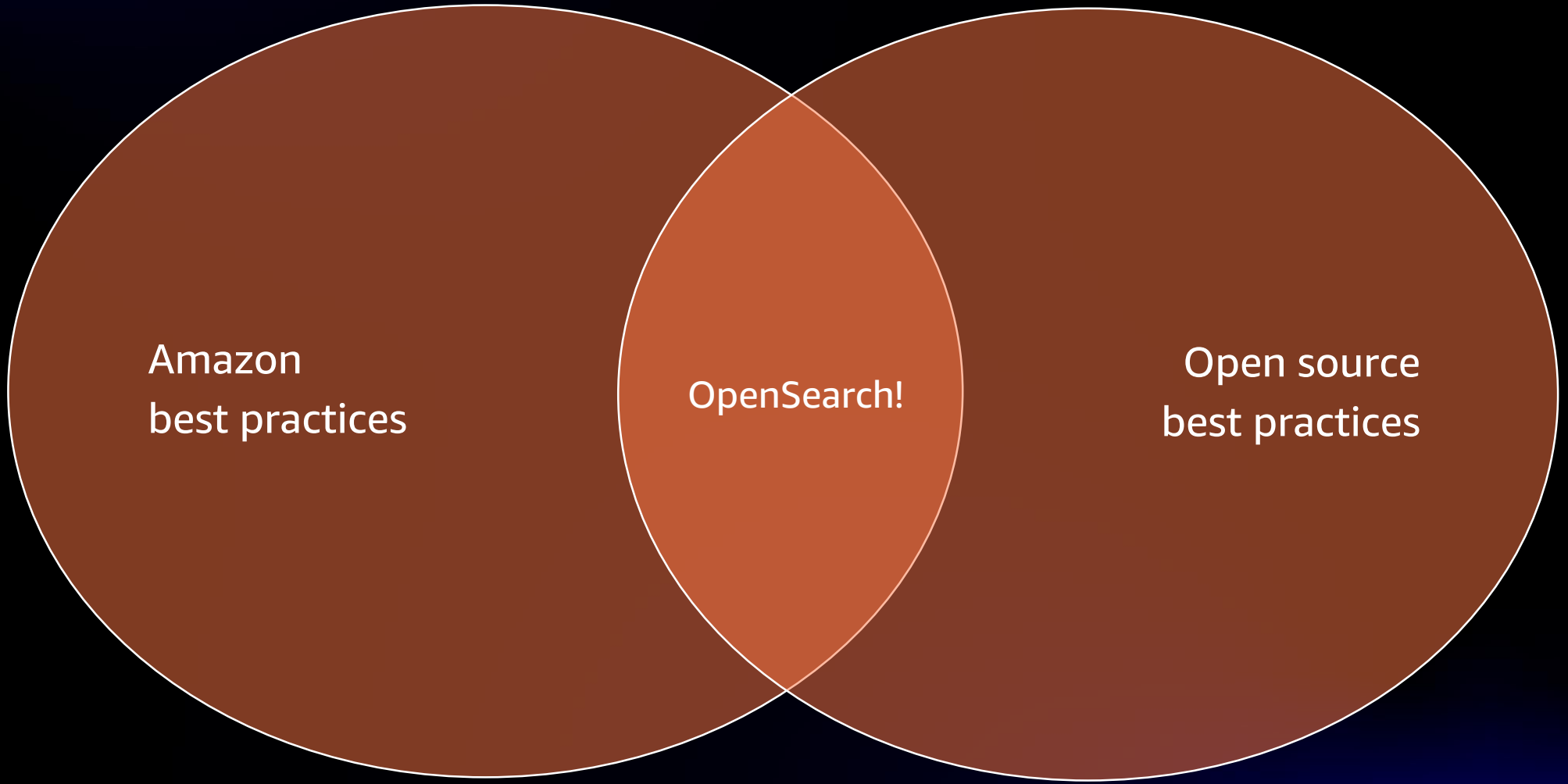
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What are the challenges for OpenSearch?

- We have all the engineering challenges of a start up **and** a long-term project
- We're trying to build a team, practices, and culture simultaneously
- We want an inclusive environment where it's easy to contribute

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What have we done to meet these challenges?



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How did we merge best practices?

Amazon best practices

- Tenets
- Working backwards
- Document culture
- Following leadership principals
- Holding a high bar (security, API surface area, performance, scale)

Open source best practices

- Progress, not perfection
- Code-driven collaboration (“show, don’t tell”)
- Test early, test often
- Open communication
- Don’t be afraid to make mistakes
- Asynchronous collaboration

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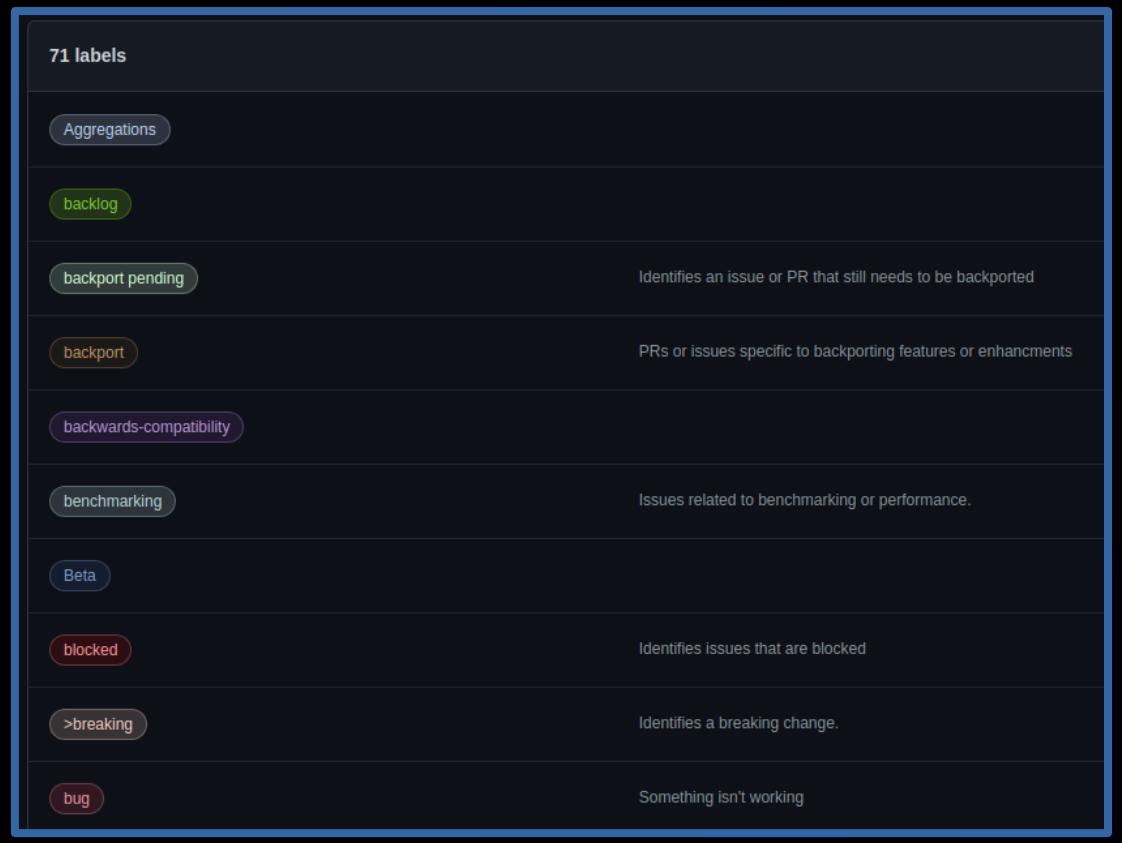
What are the OpenSearch development principles?

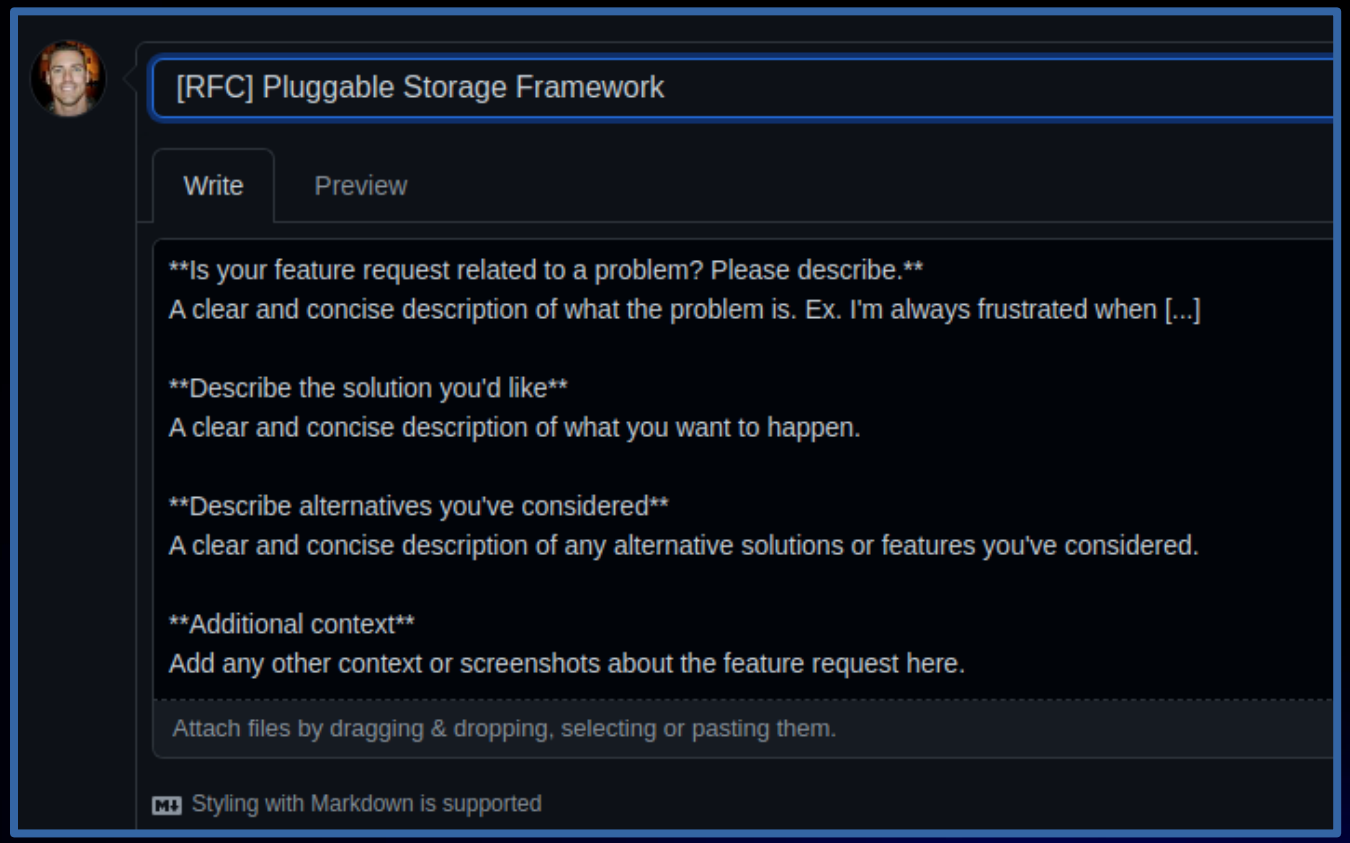
1. Great software
2. Open source like we mean it
3. A level playing field
4. A place to invent
5. Used everywhere
6. Made with your input – open to contributions
7. Respectful, approachable, and friendly

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Great software

RFCs (doc culture and community)

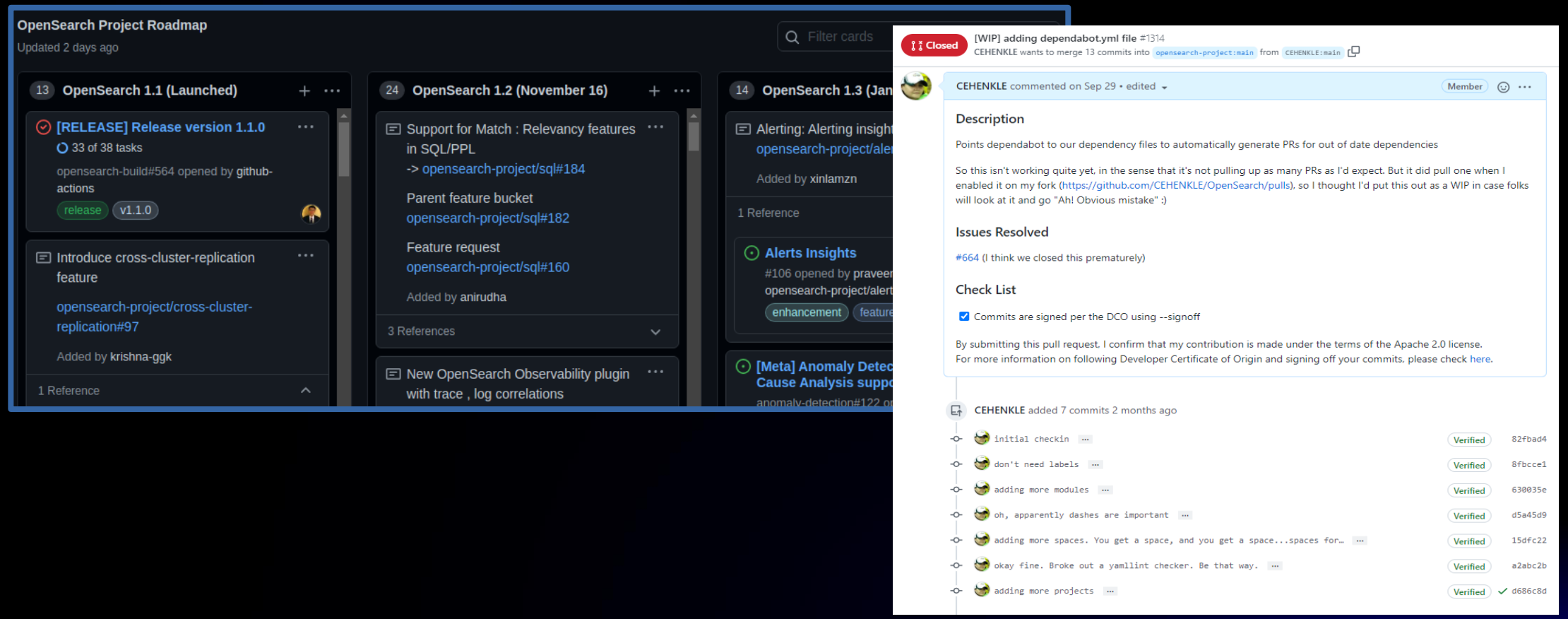




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Open source like we mean it

Roadmap and maintainer transparency; public mistakes are okay!



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A level playing field

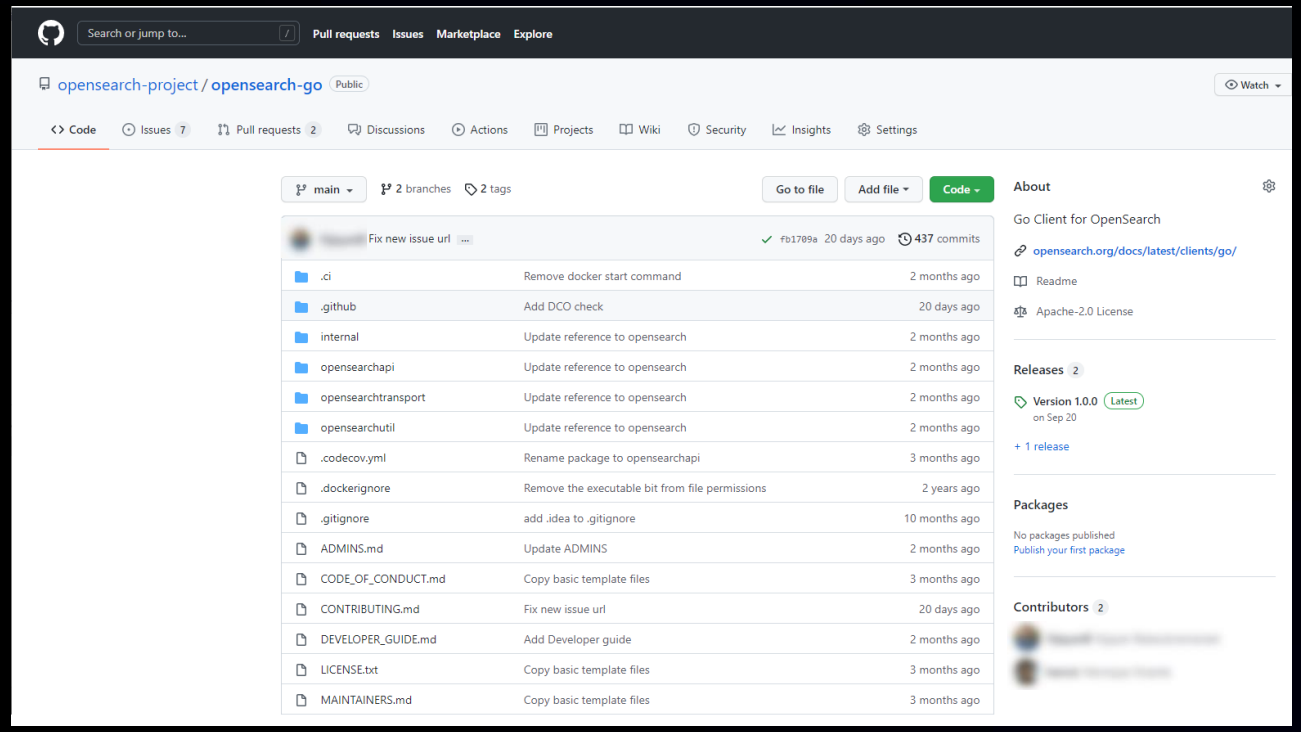
No bias toward any specific contributors



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A place to invent

OpenSearch clients!



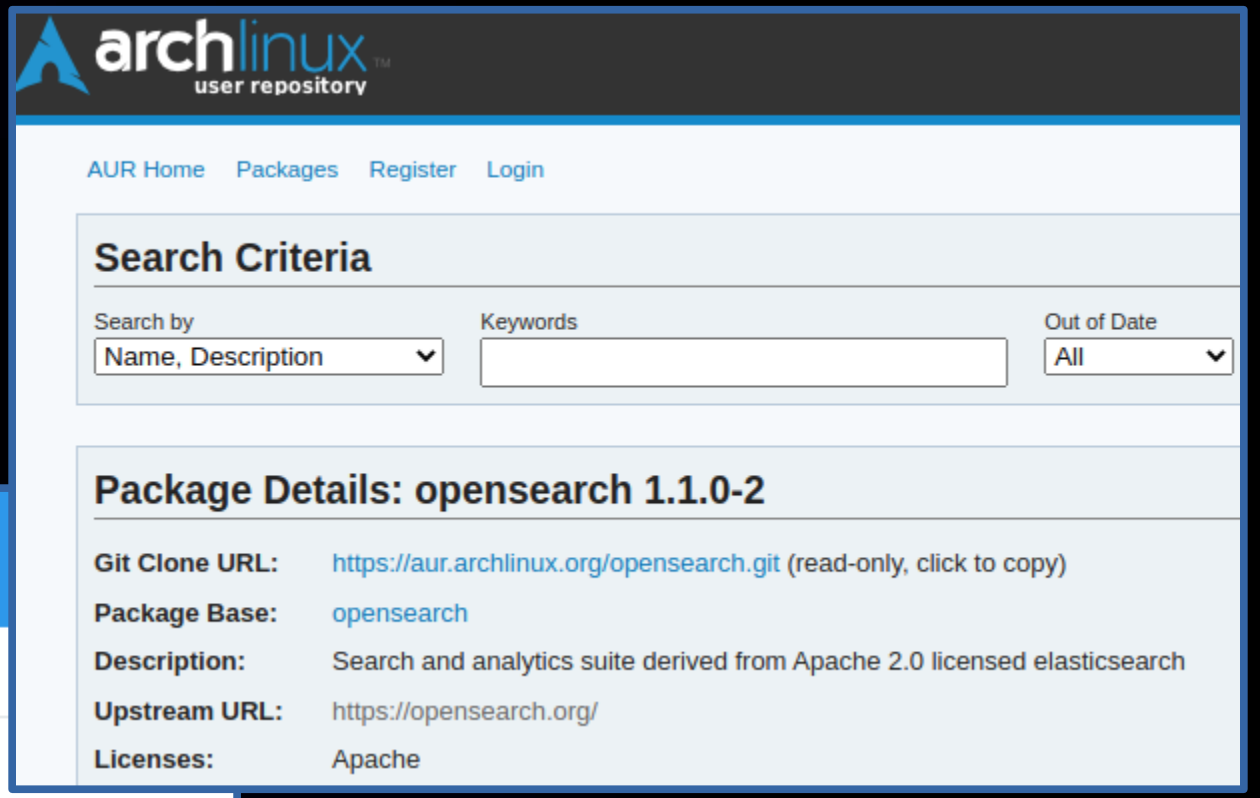
Released clients maintained by the community:
opensearch-java
opensearch-Go
opensearch-py
opensearch-dsl-py
opensearch-js

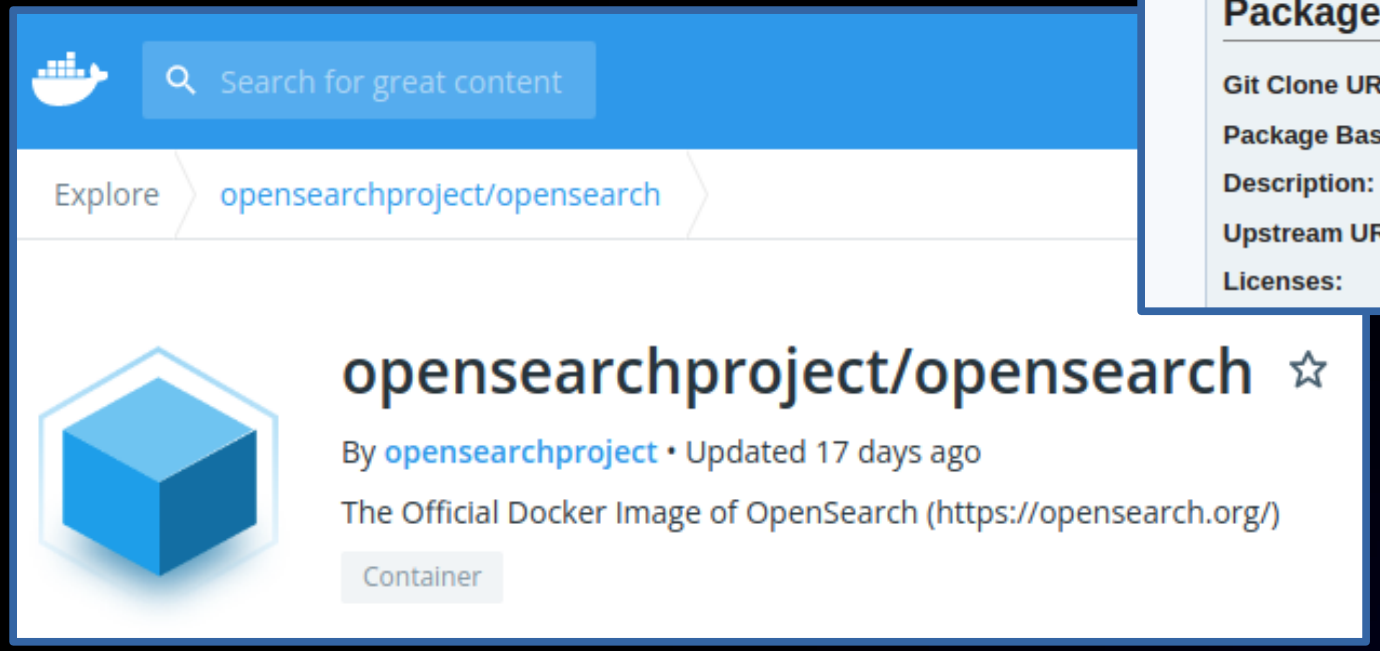
…with 4 more currently in flight

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Used everywhere

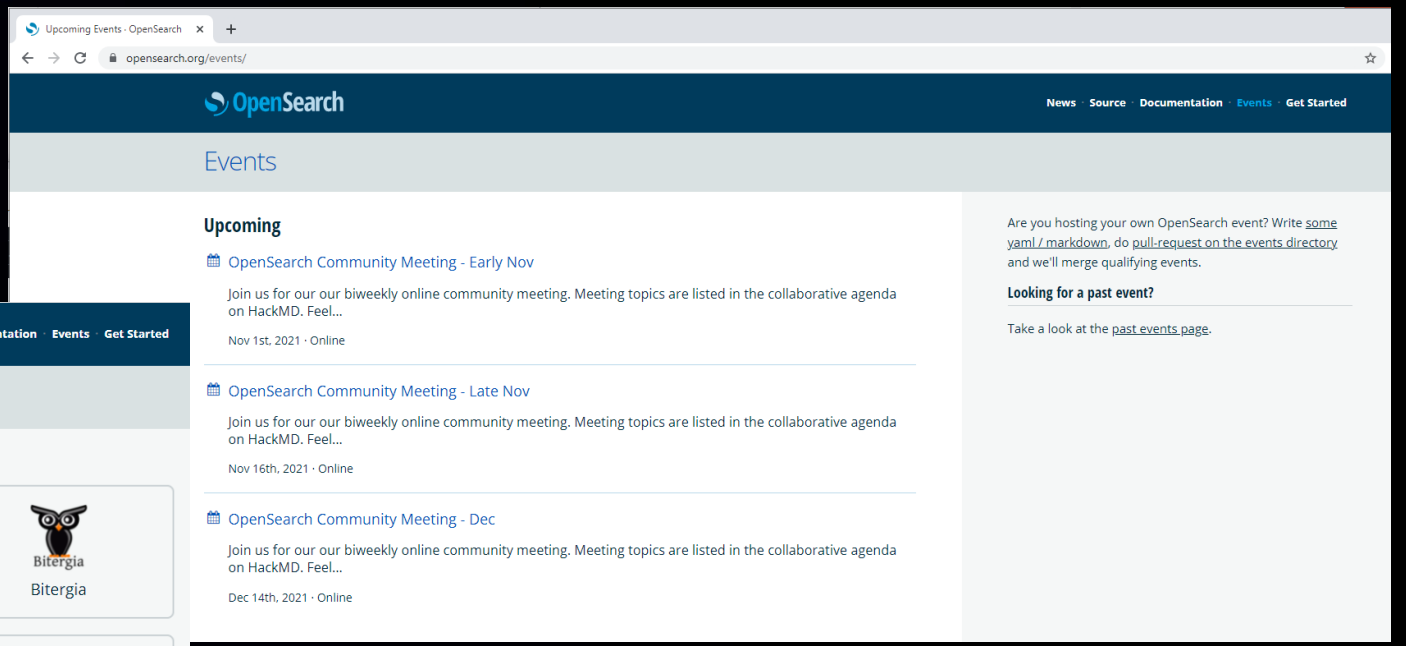
Easy to deploy, easy to install

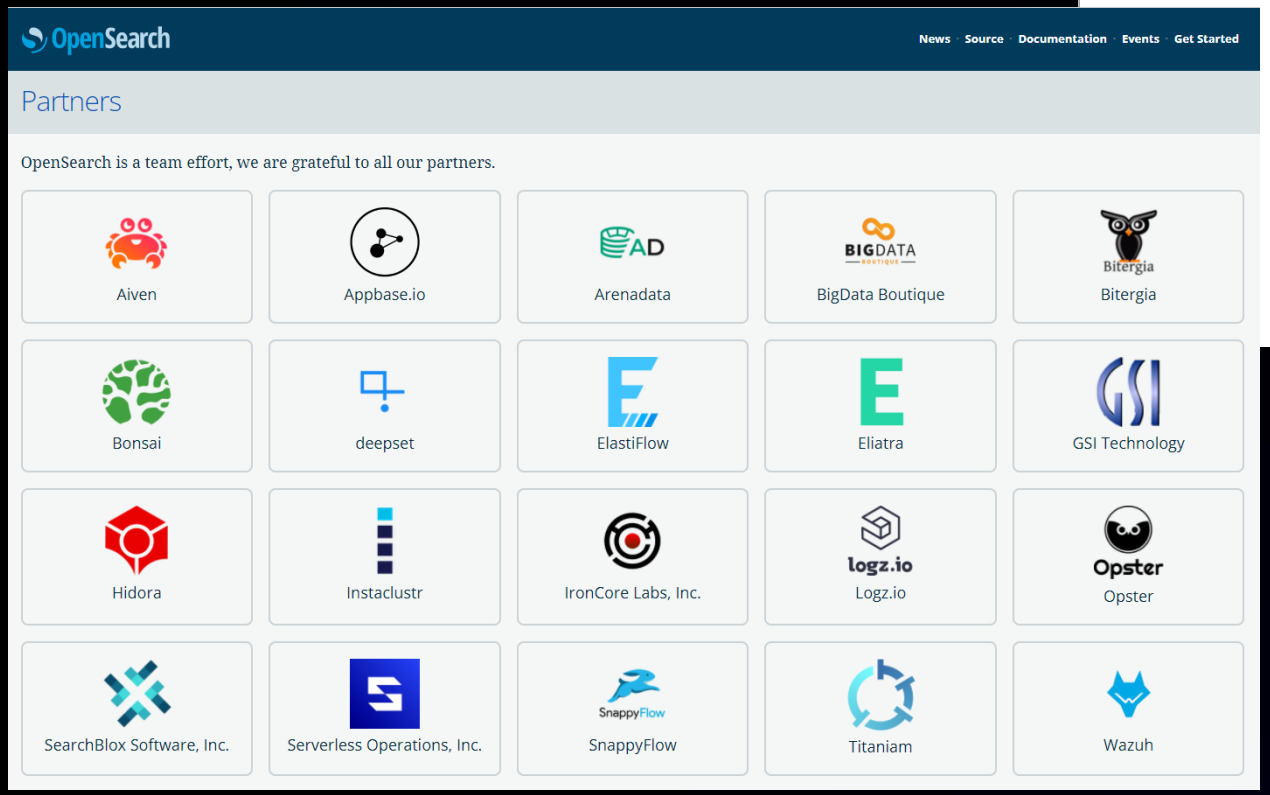




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Made with your input – open to contributions



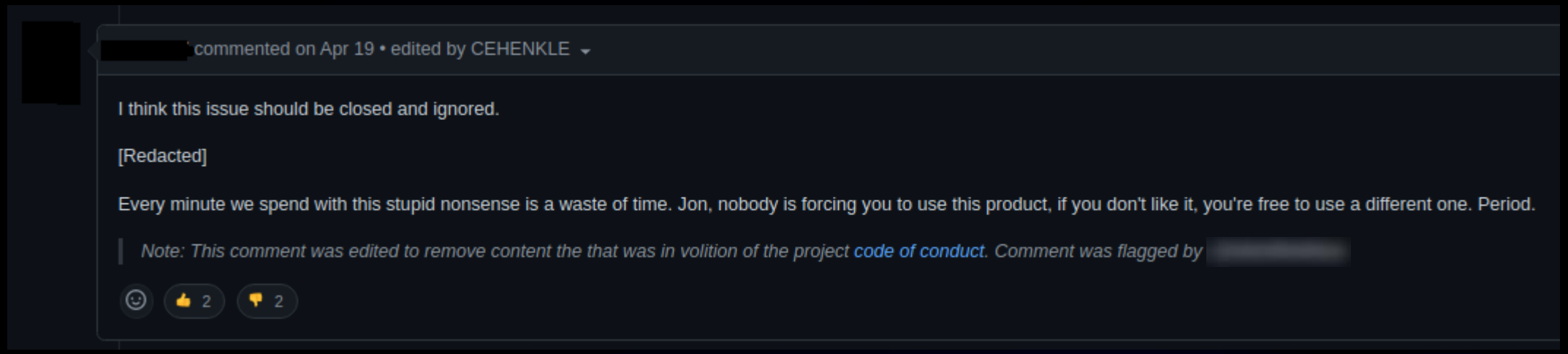


From the start of the project in 2021 to October, we've had 543 external PRs across all OpenSearch repositories and are currently averaging 14 external PRs/week

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Respectful, approachable, and friendly

One of the top level documents in the OpenSearch repository is our Code of Conduct (https://bit.ly/3GWPGTdz) that outlines our principles of being inclusive, welcoming, respectful, and collaborative



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What's next? How can you help?

- API versioning
  - Separating the public-facing API from the core implementation
- Incubate new features
  - Open feature/enhancement issues
  - Sandbox module
- Test early, test often
  - Open test-failure issues

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Thank you!

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