

Open Source Data Science

Wielding AI to make your life easier

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This section includes:

Introductions of the workshop team and code of conduct

Overview of the workshop – shape of the day

A little bit about the Operate First community

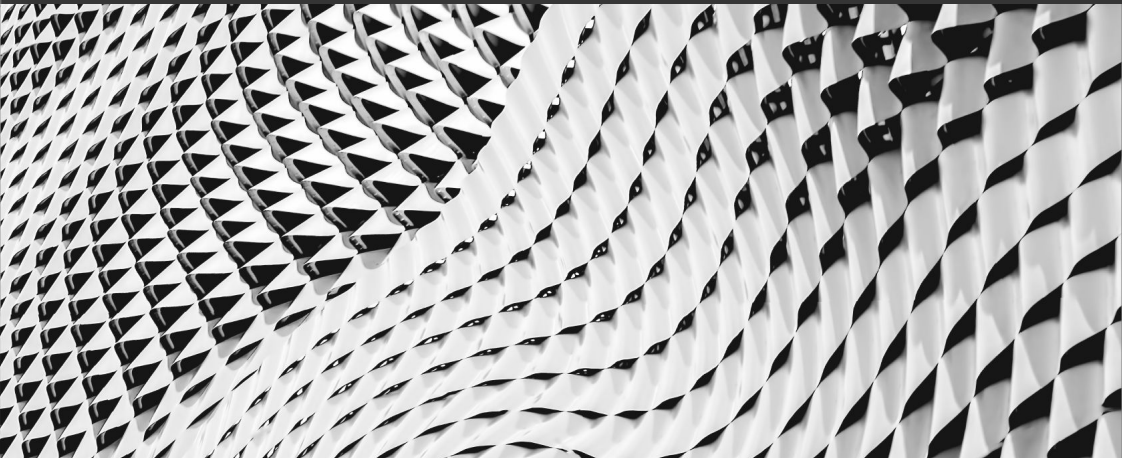
Getting into GitHub – what the heck is a pull request (PR)?

A little bit about GitOps and AIOps

Workshop overview – Schedule & flow

Our goal is to support your journey from wherever you are.

Please ask your questions!



Today's schedule

Coffee, tea, and water too

- ▶ 10:00 – 12:30 – Introductions to concepts, setup browser-based data science environments
 - 11:15 – 11:30 – Coffee/tea/water break
- ▶ 12:30 – 14:00 – Lunch
- ▶ 14:00 – 17:00 – Do AIOps!
 - 15:00 – End – Coffee is available
- ▶ 17:00 – Wrap up

Operate First code of conduct

Our code, in addition to SCaLEs

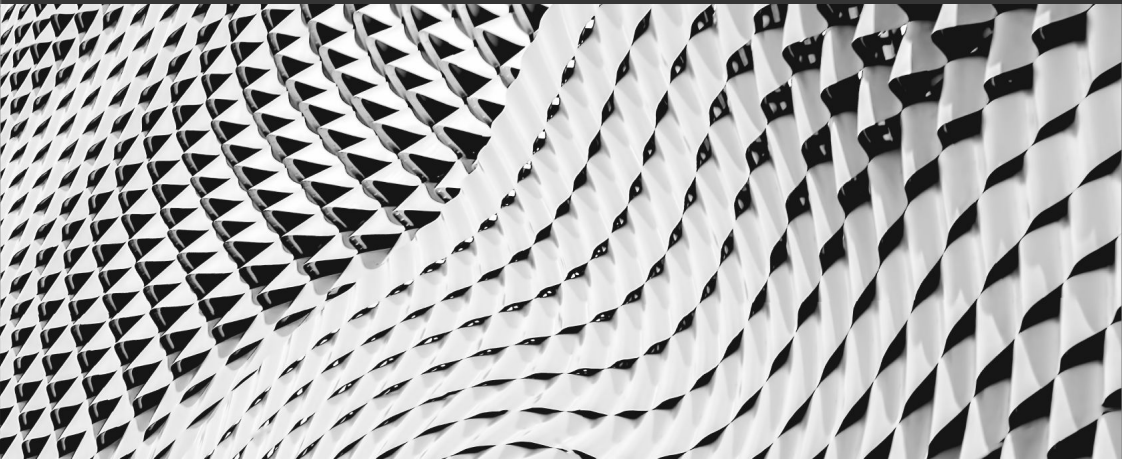
Codes of conduct (CoCs) are now considered a standard and necessary part of an Open Source community. As an OpenInfra Labs project, Operate First activities are covered by the OpenInfra Foundation's Community Code of Conduct:

- ▶ <https://openinfra.dev/legal/code-of-conduct>
- ▶ <https://www.socallinuxexpo.org/scale/19x/code-conduct>
- ▶ Both of these CoCs have details and steps for anyone who is reporting an incident of a violation of the code of conduct.

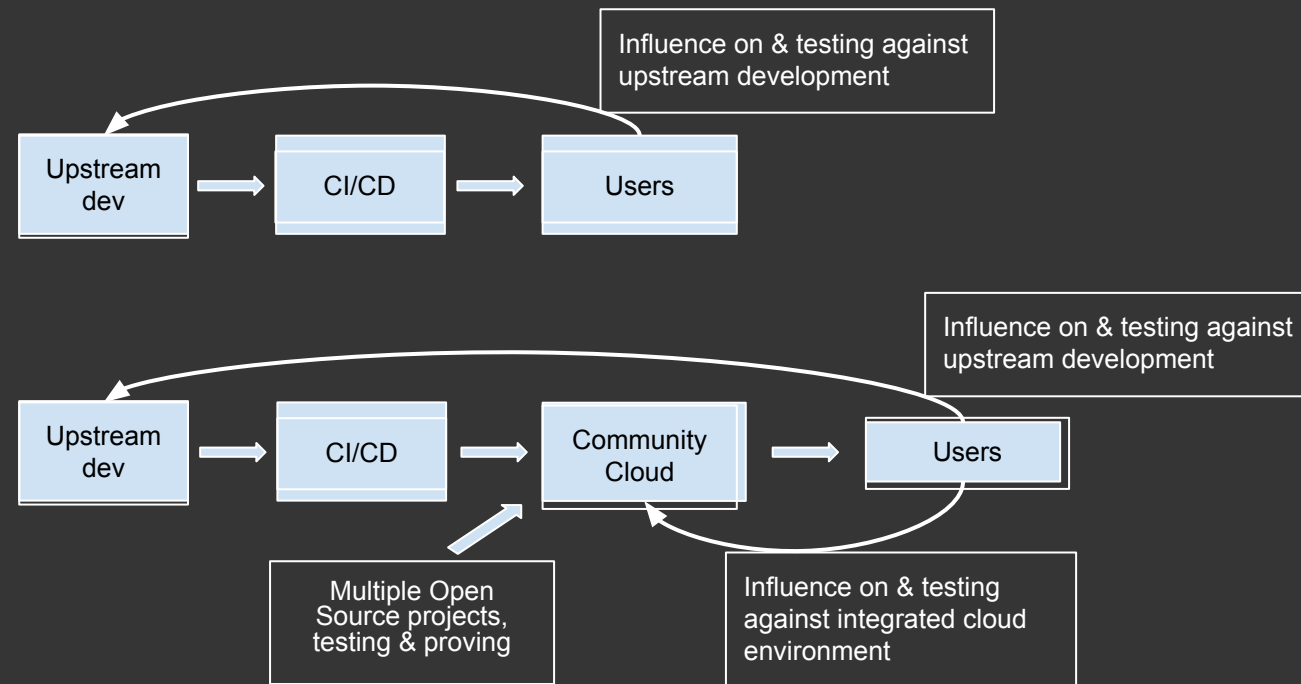
A little bit about Operate First

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Building an all-Open Source community cloud to learn how to make software and cloud ops better by running services in an Open Operations environment



About the Operate First project

Open Sourcing operations

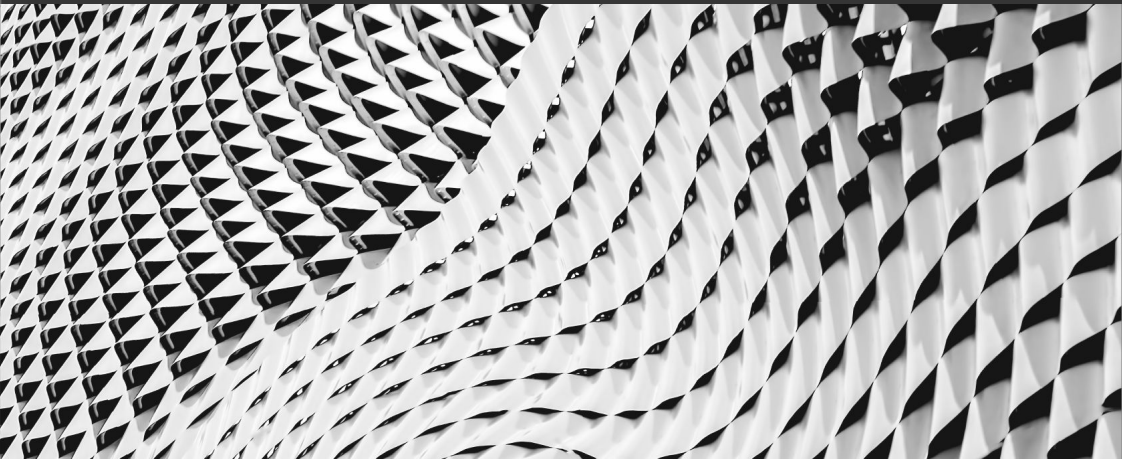
Operate First is a project and community born from a concept:

- ▶ If you run your software in production *before* delivering it to users/customers, what you learn from operating can improve the software before it's released.
- ▶ We built and run a prototype operating-first environment as a community cloud, where you'll be working today.
- ▶ We're onboarding Open Source projects so they too can test and prove their code.
- ▶ We're developing modern cloud practices (SRE) in the Open way.

Getting into GitHub

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Let's get into GitHub

Today's default "git forge"

Although not unique, GitHub stands out today as not only a place for hosting Open Source and other Open content, but as a tool for development of code, content, and other artifacts.

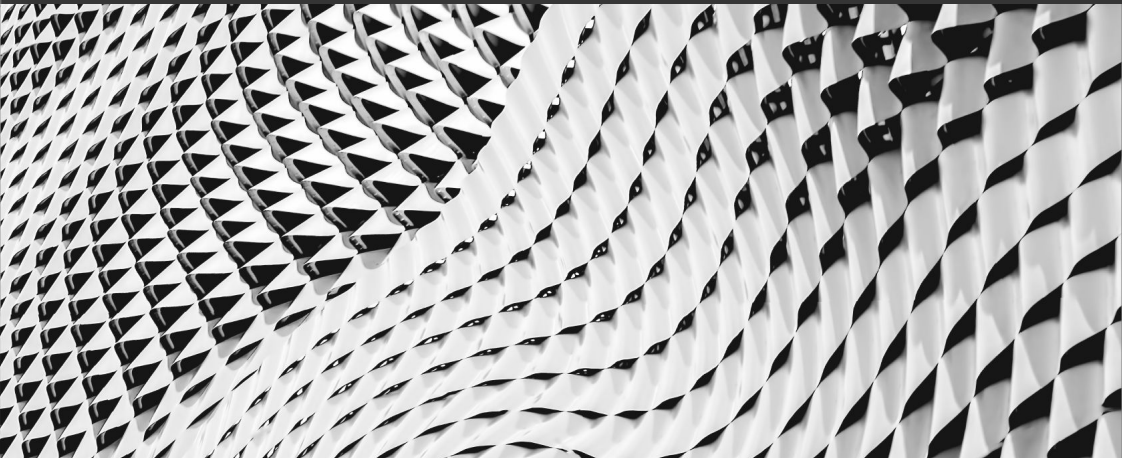
- ▶ What is "git"? What is a "hub"?
- ▶ Bringing the context to the work – issues and pull requests (PRs).
- ▶ Create GitHub account (if you don't have one.)
- ▶ Add name here:

<https://etherpad.opendev.org/p/SCaLE-19x-Open-Source-Data-Science-workshop>

A few words about GitOps and AIOps

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What are GitOps and AIOps

Fun with made portmanteaus

- ▶ GitOps is a way of operating services using pull requests
 - You don't merge your own PR, it must be reviewed.
 - Bots/automation make this all smoother.
 - Ability to quickly roll-back changes, or roll-forward successful changes to another set of clusters/servers.
- ▶ AIOps == Data Science + DevOps
 - Modern, forward moving ...

BREAK!

Break time

Thank you

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