



Operate First Intro and Update

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What is Operate First?

Operate First is a concept to incorporate operational experience into software development, by extending development to include operating, testing, and proving code in a production environment

What is Operate First?

Two fundamental impact areas

- Open source projects - change in workflow to incorporate developers bringing their projects to a cloud and participating in the operations.
- Open source operations - where the Ops team welcomes devs and works in a community to advance open cloud operations

Where are we at? Operational environments

Mid 2020- Initially a segment of the Mass Open Cloud at Boston University called the “zero cluster” kicked off as the first “community cloud”, set up to host projects and developers operating first. A “rick cluster” is also part of the environment, hosted at Hetzner.

Today - The zero cluster is being replaced by the “smaug cluster” which has more resources across the board.

Where are we at? Open Upstream

The Ops team for the operate first environment has been working in an open upstream at <https://github.com/operate-first>.

Open Infrastructure Labs has a focus on open cloud operations and hosts projects to that effect and looks to work with partners to spread community clouds far and wide. <https://openinfralabs.org/>

Where are we at? Community building

Red Hat's Open Source Program Office has dedicated a resource to build community interest and participation. A key area being worked in conjunction with other teams centers around SRE training.

Early Success Story

- At the zero cluster a reinstall ran into issues
 - Debug with Ops team and projects operating first resolved within a day
 - Firewall changes in OpenShift showed as failures in the bare metal installer, Hive and ACM.
 - Workarounds were put in place to prevent this from ever seeing the light of day.
 - ACM folks noted that if this came to them from a customer it would have been very difficult and time consuming to diagnose and fix.

Current projects

It's still early days and limitations of the environment has slowed progress, but some of the projects currently participating are

- The dominant area has been around Open Data Hub with related projects such as Thoth and Meteor and incorporating JupyterHub, ARGOcd and many other tools
- The Advanced Cluster Manager (ACM) has been involved.
- The Curator project is active (user workload monitoring)

Collected Links

Operate first page - <https://www.operate-first.cloud/>

To join in - <https://www.operate-first.cloud/users/support/docs/intro.md>

GitHub repo - <https://github.com/operate-first>

Open Infrastructure Labs - <https://openinfralabs.org/>

Community mailing list -

<https://lists.operate-first.cloud/admin/lists/community.lists.operate-first.cloud/>



Thank you