

Open Source Fast Track with Operate First

Why Open Operations matter / is more than just free hardware

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Red Hat Emerging Tech

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Red Hat Emerging Tech

Agenda

How OS-Climate leverages Operate First

The Operate First concept

How YOU can leverage and participate in Operate First

Open Source Climate: Purpose and Vision

An Open Source collaboration community to build a data & analytics software platform supporting global investment into climate change mitigation and resilience.



OPEN SOURCE COMMUNITY

- Governance, licensing, and collaboration structures enabling stakeholders to share cost, intellectual property, and effort.
- Joint projects for new data, modeling, standards, and supporting technology.



GLOBAL DATA COMMONS

- Curated library of public and private sources, for both transition and physical risk/ opportunity.
- More accurate corporate historical and forwardlooking climate & ESG metrics as a public good.



SCENARIO-BASED PREDICTIVE ANALYTICS

- Top-down and bottom-up modeling to integrate climate-related risk and opportunity into decisions by investors, financial institutions, regulators, etc.
- Multiple climate scenarios and transition pathways.

OPEN Source Climate & the power of scaling

Community, governance, software, & operations

Providing the ability to scale in all the ways and places needed is letting OS-C go from idea through innovation to durable artifacts such as code, data models, and reusable data science components.

- **Community** – Processes and tooling makes this more self-service and self-teaching
- **Governance** – Reflecting human systems into technology and vice-versa
- **Software** – Findable & durable artifacts build & evolve tech
- **Operations** – Making the difficult into the easy draws participation

OS-Climate by the numbers

Community, governance, software, & operations

- 204 Members
- 10 Community Projects
- 49 Repositories
- 18 Public Data Sets

OS-Climate by the numbers

Community, governance, software, & operations

- 204 Members
- 10 Community Projects
- 49 Repositories
- 18 Public Data Sets

Over last 6
months...

~2X

Scaling OS Climate Operations

- ▶ Deployments are configurable by OSC community
- ▶ Discussion, reviews and approval of all deployment changes are fully in the open
- ▶ Cluster and Application Deployments are fully open

Default

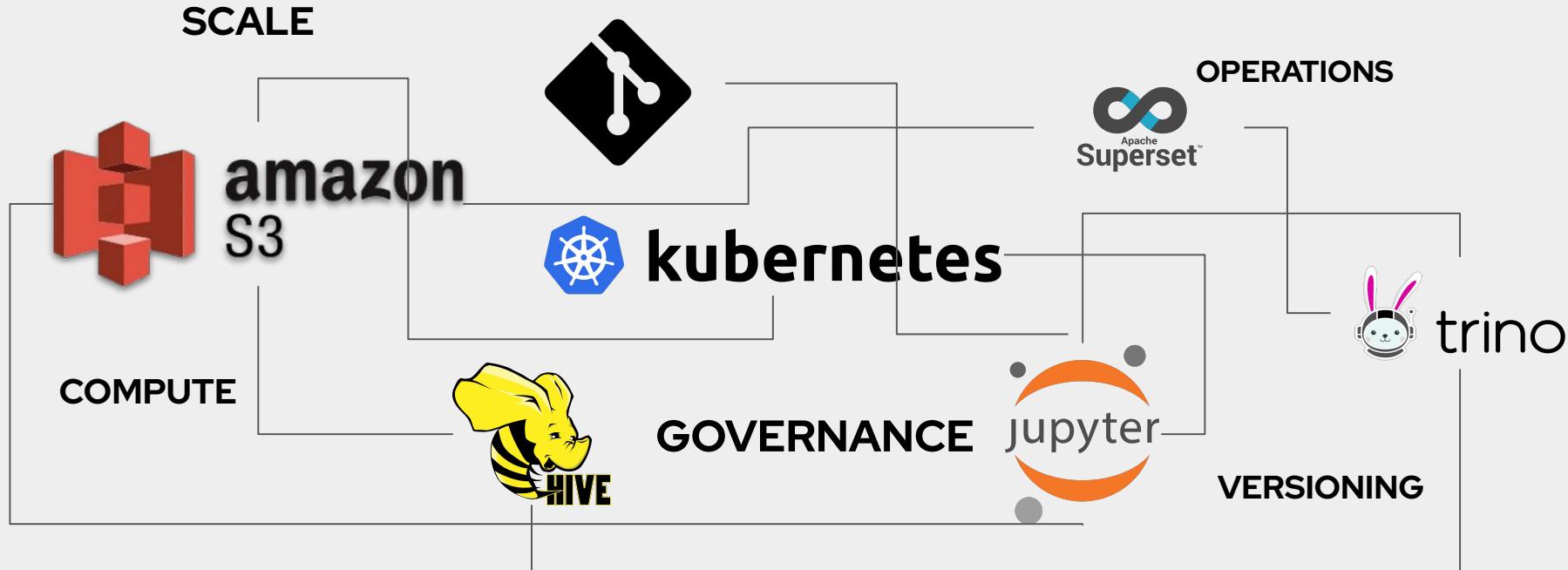
Cloud provider like AWS, Azure

The screenshot shows the AWS EC2 Experience dashboard. On the left, a sidebar lists various services: EC2 Global View, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Images, AMIs, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, Network & Security, and Load Balancing. The main area displays 'Resources' for the US East (N. Virginia) Region, showing 0 instances, 0 dedicated hosts, 0 elastic IPs, 0 instance types, 0 key pairs, 1 load balancers, 0 placement groups, 0 security groups, 1 snapshots, and 0 volumes. It also includes sections for 'Launch instance', 'Scheduled events', and 'Migrate a server'. A 'Service health' panel indicates that the 'aws service' is operating normally. The 'Account attributes' panel shows supported platforms: VPC, Default VPC (vpc-0e60193151561248f7), Settings, EBS encryption, Zones, EC2 Serial Console, Default credit specification, and Console experiments.

The screenshot shows the Microsoft Azure dashboard. On the left, a sidebar lists services: All services, Azure health, Function Apps, SQL database, Azure Cosmos DB, Virtual machines, Load balancers, Storage accounts, Virtual networks, Azure Active Directory, Monitor, Advisor, Security Center, Cost Management + Billing, Help + Support. The main area features a 'My dashboard' section with a search bar and navigation links for 'New dashboard', 'Upload', 'Download', 'Share', 'Edit', 'Full screen', 'Clone', and 'Delete'. It includes three primary charts: 'Average process CPU (all cores)', 'Operations this month', and 'Performance'. The 'Average process CPU' chart shows data for CONTOSO-WL1, CONTOSO-WL2, and CONTOSO-WL3. The 'Operations this month' chart shows completion percentages for tasks like OctoberUpdates. The 'Performance' chart shows response times for various operation names. Below these charts, there's a table for 'Average of Server response time by Operation name' and a 'Quick links' section with links to Blog, SDK, and Teams.

Open Source Solution

...tedious way

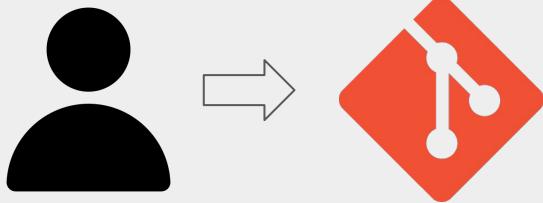




“Operate First is an initiative to operate software in an open environment – bringing users, developers and operators closer together.”

Expand Open Source principles from code to the deployment and operation of software

OSC
Community
User



Pull Request

update cl2 trino to 380 #22

Merged HumairAK merged 1 commit into operate-first:osc-cl2-v1.1.2 from erikerla...

Conversation 2 Commits 1 Checks 0 Files changed 1

Changes from all commits ▾ File filter ▾ Conversations ▾ Jump to ▾ ⚙ ▾

trino/base/kustomization.yaml ↗

	@@ -136,4 +136,4 @@ images:
136	136 newTag: 2.3.3-002
137	137 - name: trino
138	138 newName: quay.io/os-climate/trino
139	- newTag: '373'
139	+ newTag: '380'

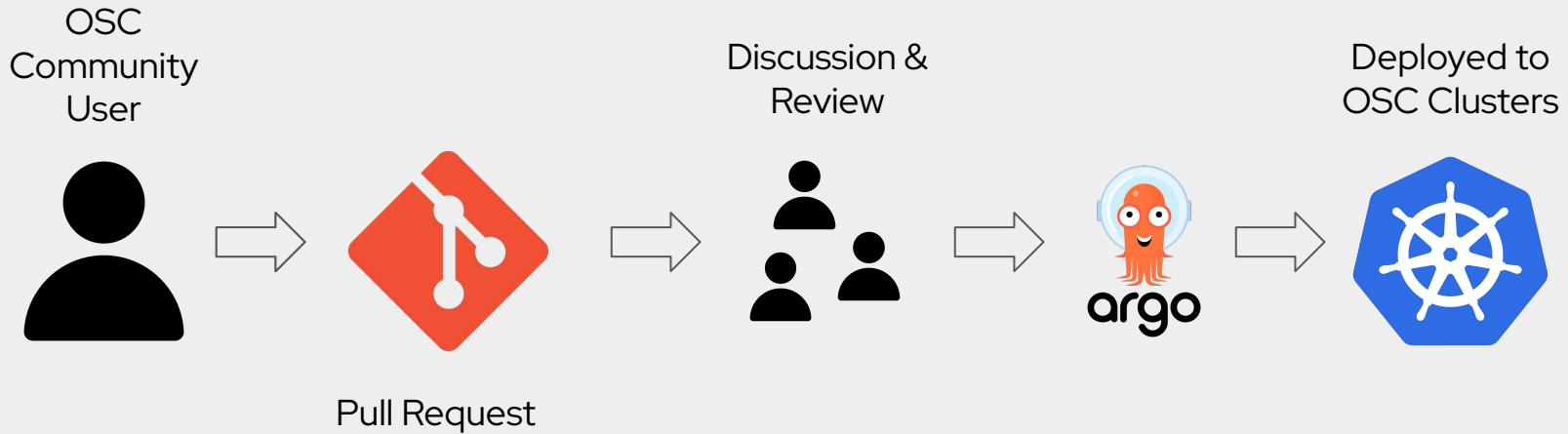
OSC at Operate First

OSC
Community
User

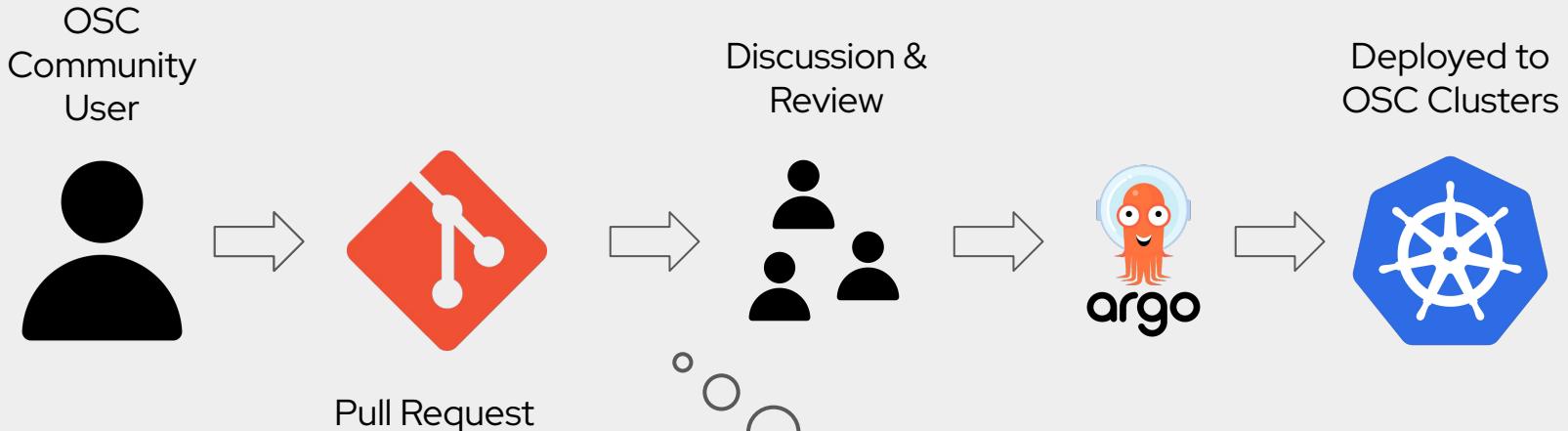
Discussion &
Review



OSC at Operate First



OSC at Operate First



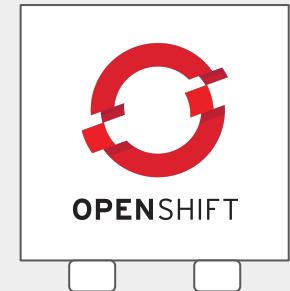
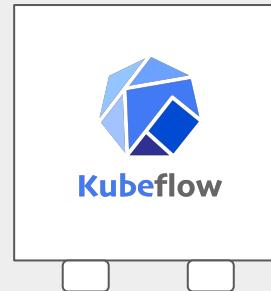
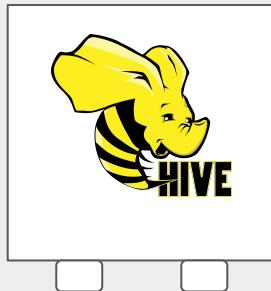
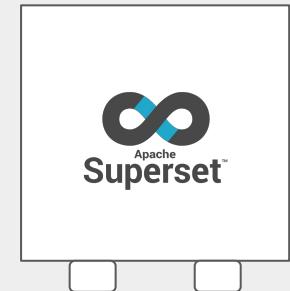
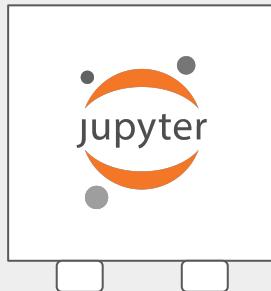
Issues, pull requests,
discussion, reviews
and approvals are fully
in the open



OPEN DATA HUB
AI Platform, powered by Open Source

Tooling

Open Data Hub on Operate First

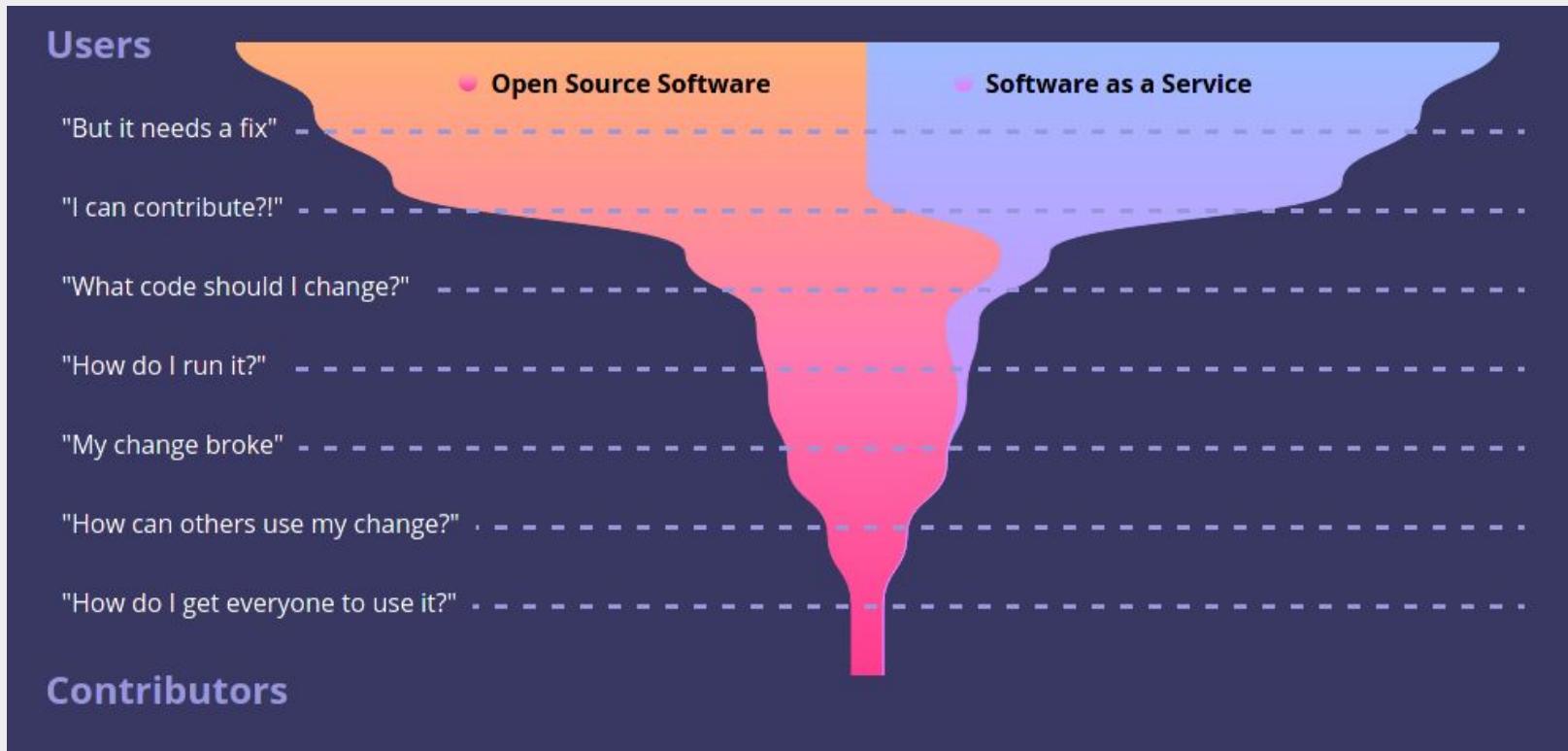




“Operate First is an initiative to operate software in an open environment – bringing users, developers and operators closer together.”

Expand Open Source principles from code to the deployment and operation of software

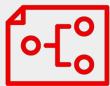
Open Source contributor funnel





Community Building

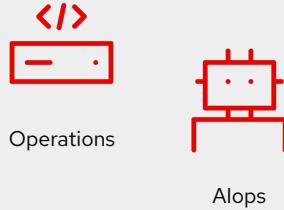
Inclusive to all Personas



Architect



User



Operations



Developer



Product Support



hybrid CLOUD with full
visibility into the
operations center



community operated

Operate First Community Cloud



MOC



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AWS



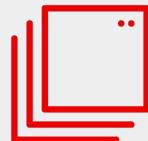
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IBM Cloud

community operated

Operate First Community Cloud



Workloads

OpenDataHub
Thoth
Apicurio
Quarkus
Pulp
...



MOC



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AWS



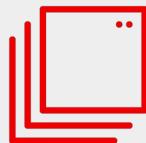
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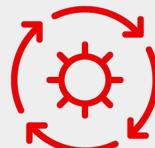
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community operated

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Workloads



Management
and automation

Adavanced Cluster Manager

ArgoCD

Prow

Tekton

Prometheus

...



MOC



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AWS



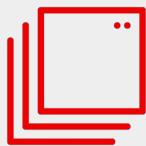
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IBM Cloud

community operated

Operate First Community Cloud



Workloads



Management
and automation



Everything as a
service

Operators
ODH
Kafka
Prometheus
Loki
...



MOC



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AWS



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Operate First Community Cloud



Workloads



Management
and automation



Everything as a
service



Data and
best practices

Operational Data
Blueprints
Community building

...



MOC



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AWS



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IBM Cloud

Let's get SREal



@github



Op1st Community Cloud

The Operate First Community Cloud is a shared environment for Open Source projects and SRE practitioners.
It's operated under a community SLA and as open and transparent as possible.

[Click here to get started as a user and contributor](#)

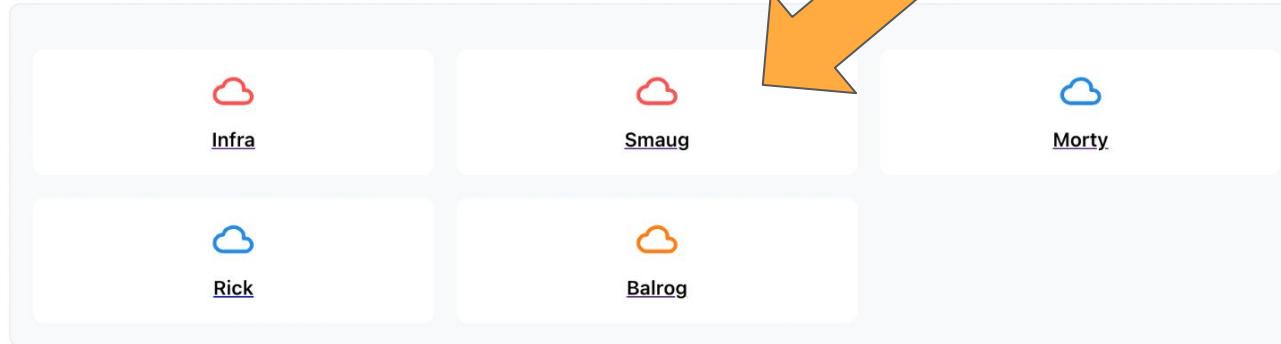
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operate-first



Red Hat

OpenShift Container Platform



Marcel Hild ▾

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Projects

Create Project



Name _____

Name ▼ Search by name...



Name	Display ...	Status	Requester	Memory	CPU	Created	
PR acme-operator	Openshift-ACME Controller	✓ Active	operate-first	289.0 MiB	0.017 cores	⌚ 27 Aug 2021, 15:59	⋮
PR aicoe-meteor	AICoE Meteor Operator	✓ Active	operate-first	798.7 MiB	0.032 cores	⌚ 30 Nov 2021, 09:36	⋮
PR aiops-tools-workshop	Operate First: aiops-tools-workshop	✓ Active	operate-first	43,154.4 MiB	0.312 cores	⌚ 15 Jul 2022, 15:35	⋮
PR ai-services-thanos-grpc	AI-Services Thanos GRPC	✓ Active	ai-services	-	-	⌚ 9 Dec 2021, 21:30	⋮
PR anonymous	No display name	✓ Active	No requester	-	-	⌚ 30 Aug 2021, 20:00	⋮
PR apicurio-apicurio-registry	Apicurio Registry - High performance,...	✓ Active	apicurio	1,101.8 MiB	0.028 cores	⌚ 2 Nov 2021, 15:34	⋮
PR api-designer	No display name	✓ Active	apicurio	93.4 MiB	-	⌚ 3 May 2022, 14:18	⋮

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Question

Generic question or request

Get started

Feature Request

Add a feature request from an end user perspective for the Operate First Cloud.

Get started

Report Service Issue or Bug

Create a report to help us improve

Get started

Onboard to a cluster

Request access to a namespace in an Operate-First managed cluster.

Get started

Onboard to ArgoCD

Request ArgoCD access, project, application, or add a new user to an existing ArgoCD Project.

Get started

Request Resources

Request resources that require administrative privileges: CRDs, ClusterRoles, Operators, Quotas.

Get started

Delete namespace

Request deletion of namespace.

Get started

Issue: Onboard to a cluster

Request access to a namespace in an Operate-First managed cluster. If this doesn't look right, [choose a different type](#).

NEW PROJECT: <name>

Target cluster

Please select a cluster.

Selection: Smaug ▾

Team name *

Your team name should be a short identifier consisting of lower case letters, numbers, and dashes (technically, anything thing satisfies [RFC 1123](#)). For example, `widget-research` is a valid team name, but `Widget Research` is not, because it contains whitespace.

We will use this name to create an OpenShift `group` for you and your team members.

You need to pick a "team name" whether or not you are requesting access for a group of people or an individual. We recommend that you do not use your individual name as a team name.

Desired project names

Please fill in this field.

Resources in OpenShift are contained in "namespaces" (also called "projects"). Unless you request otherwise, we will create a single project for you with the same name as your selected team name.

If you need additional namespaces, or want a project name that differs from your team name, please indicate that here. Project names have the same requirements as team names.

Assignees	No one—assign yourself	
Labels	kind/onboarding	
Projects	None yet	
Milestone	No milestone	
Development	Shows branches and pull requests linked to this issue.	
Helpful resources	GitHub Community Guidelines	

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Infra



Smaug



Morty



Rick



Balrog

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☰ README.md



Operate First Blueprint

This section contains documentation of the Operate First Blueprint, covering the topics of architecture (including logical diagrams and documents of decisions taken) and the process to create deployments (including schema and physical diagrams).

Architectural Decisions

Architectural decisions are design decisions with some level of architectural significance. At Operate First, we track architectural decisions using lightweight architectural decision records. More information on the format we follow is available at <https://adr.github.io/madr/>.

- [ADR-0000](#) - Use Markdown Architectural Decision Records
- [ADR-0001](#) - Use GNU GPL as license
- [ADR-0003](#) - Users of an Operate First deployment might need different features than provided by upstream project's release
- [ADR-0004](#) - ArgoCD Apps of Apps Structure
- [ADR-0005](#) - Repositories Supporting Multiple Environment Deployments
- [ADR-0006](#) - Application Monitoring using Prometheus
- [ADR-0007](#) - Alerting Setup for Monitoring
- [ADR-0008](#) - GitOPS and Secrets Management
- [ADR-0009](#) - Declarative Definitions for Cluster Scoped Resources
- [ADR-0010](#) - Common Authentication for Applications
- [ADR-0011](#) - Managing Operators
- [ADR-0012](#) - MOC Infra Cluster Deployment Methods

This is the blueprint for the Operate First Initiative

[blueprint](#) [hacktoberfest](#)
[architectural-decisions](#)

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8 stars

14 watching

15 forks

Contributors 11



39 lines (23 sloc) | 3.97 KB

ArgoCD Apps of Apps Structure

Context and Problem Statement

ArgoCD `Applications` manifests are a [declarative way to manage](#) ArgoCD `Applications` in git. Often times these are manifests that are stored alongside ArgoCD deployment manifests.

This has been fine in the past since we controlled the deployment of ArgoCD and had merge access to the repo where the applications were stored. So if we wanted to onboard a new app, we make a PR with the application manifest and someone on our team would merge it.

But there can be a situation where another team, like cluster-admins or infra, store the ArgoCD deployments in their own repo.

If we applied our current practice, we'd store our app manifests in this external repo. The problem is that we may not have merge access to this repo, and it wouldn't really make much sense for people who manage the infrastructure to also handle PR's that don't pertain directly to cluster management.

Considered Options

1. Just have All ArgoCD Manifests in one repo and give Operate-First team members access to infra repo so they can review and merge ArgoCD `Applications`.
2. Have separate teams handle Applications for their Projects in their own Repos, in this way tracking Applications is not a concern for Infra/Operate-first, but rather the individual team belonging to an ArgoCD project
3. Have a separate Repo that Operate-First manages, and have a an ArgoCD App of Apps that manages this repo.

Decision Outcome

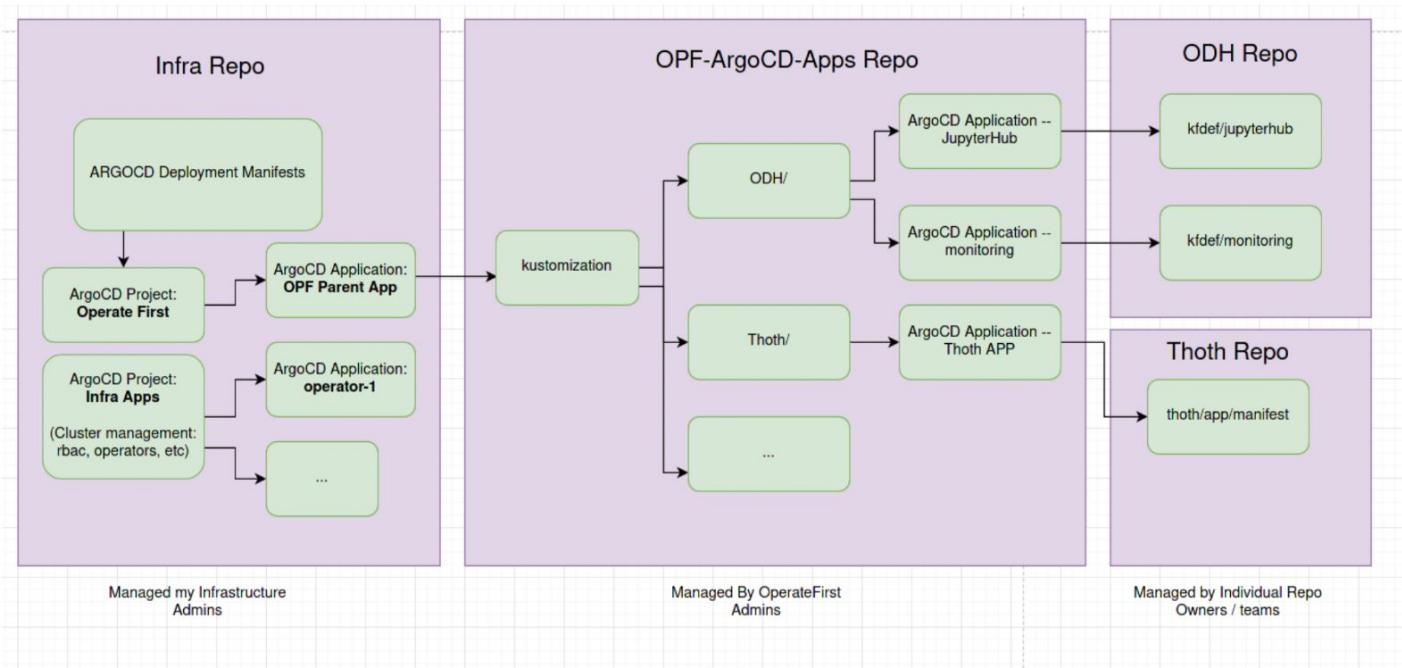
39 lines (23 sloc) | 3.97 KB

[Raw](#) [Blame](#) [Edit](#) [Delete](#)

Decision Outcome

Chosen Option (3). Problems with (1) have been outlined above. The issues with (3) is that there is no way to effectively enforce teams to ensure their App Projects belong to their team's project (this is further described below).

The Proposed Solution is captured by this diagram:



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Rick



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ACM

ACME

ArgoCD

Secret Management

Cluster Management

Development

Kafka

Kubeval validation

Grafana

Prometheus

Observatorium

OpenShift Data Foundation

Open Data Hub (ODH)

OpenMetaData



OS-Climate

[OS-Climate](#) (OSC) provides a unified, open Multimodal Data Processing platform used by OS-Climate members to collect, normalize and integrate climate and ESG data from public and private sources.

- [OSC cluster for all OSC workloads](#)

Managed Services

Operate First manages various applications and services in the environments listed above.

- [Grafana](#)

- We use Grafana for monitoring and dashboards
 - To request access to Grafana, please file an issue [here](#)

- [Open Data Hub](#)

- We manage a deployment of Open Data Hub (ODH) on the Smaug cluster and OSC cluster
 - [Read more](#) about our deployment of ODH and access our [dashboard](#)

- [ArgoCD](#)

- We manage a multi-tenant deployment of ArgoCD on the MOC Infra cluster
 - Anyone can be onboarded to this ArgoCD instance and use it to deploy to any cluster managed by Operate First
 - Before being onboarded to ArgoCD, you must be onboarded to the OCP cluster you wish to deploy your applications on
 - Request access to an OCP cluster by filing an issue [here](#) and ArgoCD by filing

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master 7 branches 0 tags

HumairAK	Merge pull request #2406 from HumairAK/fix_es_sm_trino	... e8552bb 13 hours ago	⌚ 2,662 commits
.github	feat(catalog): Redefine grafana component following a new ADR (#2...	15 days ago	
acm	Offboarding the Morty cluster	13 days ago	
acme-operator	Remove all rick related manifests and configs. (#2114)	2 months ago	
alertreceiver	Offboarding the Morty cluster	13 days ago	
argocd-notifications	Fix argocd url format for argocd notif config.	7 months ago	
argocd	whitelist grafana resources for b4mad (#2395)	6 days ago	
cert-manager/overlays	Offboarding the Morty cluster	13 days ago	
cloudbeaver	Cleanup kfdefs (#1869)	5 months ago	
cluster-logging	Remove all rick related manifests and configs. (#2114)	2 months ago	
cluster-scope	Add kafka ns to osc-cl1 in sync with osc-cl2.	14 hours ago	
cosigned	Fix the cosigned namespace to be default cosign-system (#1683)	6 months ago	
curator-operator-system	resolving service account naming issue from curator-operator (#2168)	2 months ago	

Operate-first application manifests

hacktoberfest kustomize

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Environments 1

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master apps / argocd / overlays / moc-infra / applications / app-of-apps / app-of-apps-osc-cl1.yaml

HumairAK Move argocd apps contents to apps repo. (#1070)

Latest commit 1a2f3ab on 29 Sep 2021

1 contributor

13 lines (13 sloc) | 337 Bytes

```
1 apiVersion: argoproj.io/v1alpha1
2 kind: Application
3 metadata:
4   name: opf-app-of-apps-osc-cl1
5 spec:
6   destination:
7     namespace: argocd
8     name: moc-infra
9     project: operate-first
10    source:
11      path: argocd/overlays/moc-infra/applications/envs/osc/osc-cl1
12      repoURL: https://github.com/operate-first/apps.git
13      targetRevision: HEAD
```



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master ▾

apps / argocd / overlays / moc-infra / applications / app-of-apps / app-of-apps-osc-cl1.yaml



HumairAK Move argocd apps contents to apps repo. (#1070)

Late

1 contributor

13 lines (13 sloc) | 337 Bytes

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1 apiVersion: argoproj.io/v1alpha1
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3 metadata:
4   name: opf-app-of-apps-osc-cl1
```

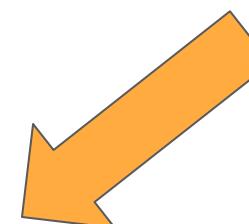


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10    source:
11      path: argocd/overlays/moc-infra/applications/envs/osc/osc-cl1
12      repoURL: https://github.com/operate-first/apps.git
13      targetRevision: HEAD
```

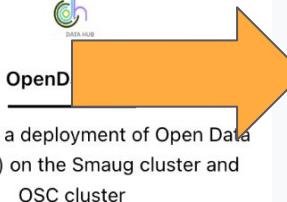


RickBalrog

Our Services

**Grafana**

Dashboard anything. Observe everything.

**OpenD**

We manage a deployment of Open Data Hub (ODH) on the Smaug cluster and OSC cluster

**ArgoCD**

Kubernetes native workflows, events, CI and CD. We manage a multi-tenant deployment of ArgoCD on the MOC Infra cluster

**Observatorium**

We have an instance of Observatorium currently being used to provision Thanos and Loki

**OpenShift Data Foundation**

ODF provides both persistent volumes and S3 compatible object storage via Rook Operator

**Dex OIDC Provider**

We manage an instance of Dex on the Smaug cluster to provide authentication for some of our services

Workloads



v2.1.3+e

APP DETAILS

APP DIFF

SYNC

SYNC STATUS

HISTORY AND ROLLBACK

DELETE

REFRESH ▾



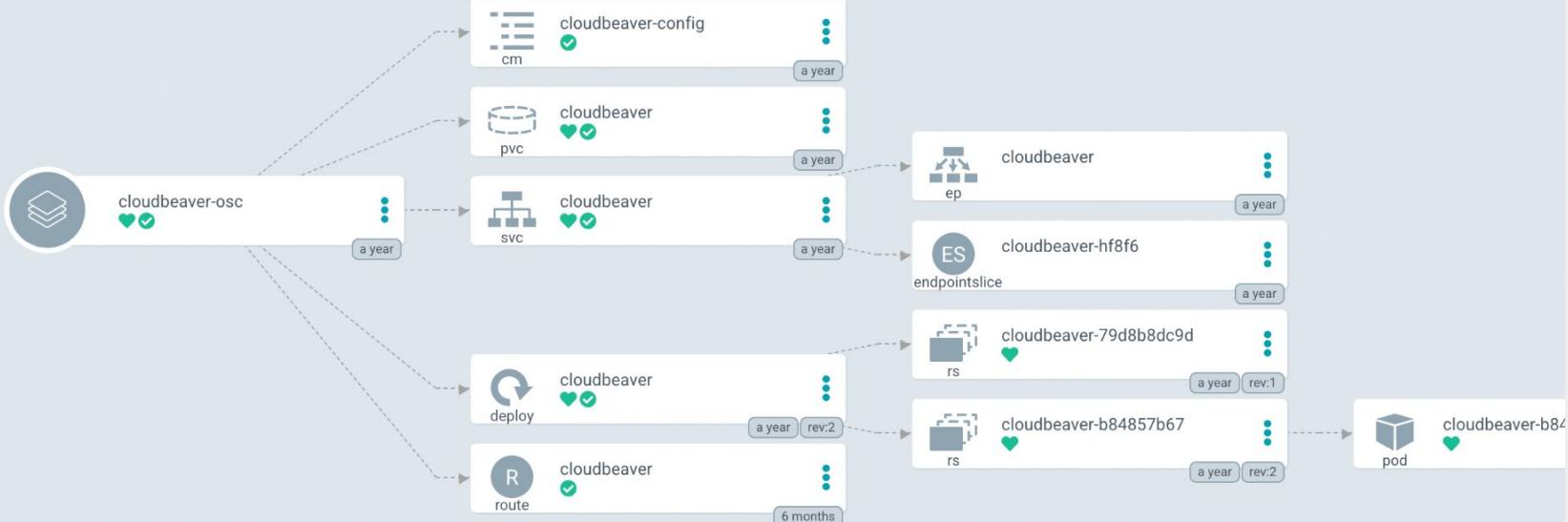
Log out

APP HEALTH Healthy

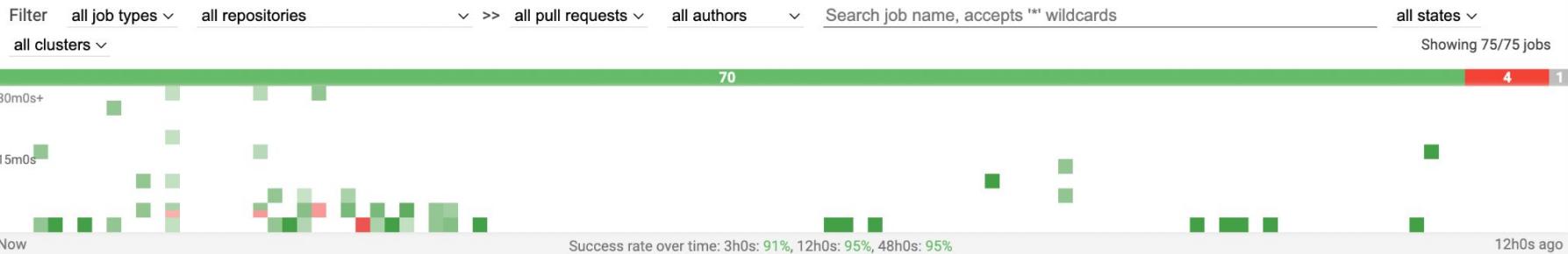
CURRENT SYNC STATUS Synced To HEAD (e8552bb)

Author: Humair Khan <HumairAK@users.noreply.github.com>
Comment: Merge pull request #2406 from HumairAK/fix...

LAST SYNC RESULT Sync OK To 5bb0b27

Succeeded 6 months ago (Fri Mar 18 2022 19:18:13
GMT+0000)
Author: Humair <HumairAK@users.noreply.github.com> -
Comment: Merge pull request #1738 from Gregory-Perei...

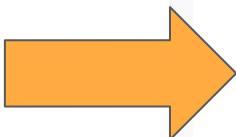
Prow Status



State	Log	Rerun	Abort	Job YML	Repository	Revision	Spyglass	Job	Started	Duration
✓	📄	⟳	✖	🔍	-	-	👁️	periodic-stale	11:12:46	14s
✓	📄	⟳	✖	🔍	operate-first/apps	#2334 (35bed44) by SamoKopecky	👁️	pre-commit	11:10:22	16m9s
✓	📄	⟳	✖	🔍	-	-	👁️	periodic-rotten	11:01:47	10s
✓	📄	⟳	✖	🔍	-	-	👁️	periodic-close-rotten	10:53:46	13s
✓	📄	⟳	✖	🔍	thoth-station/storages	#2701 (d5ec369) by khebhut	👁️	pre-commit	10:40:20	24m51s
✓	📄	⟳	✖	🔍	-	-	👁️	thoth-pytest-py38	10:40:20	2m55s
✓	📄	⟳	✖	🔍	AICoE/meteor-operator	#80 (380ec50) by codificat	👁️	pre-commit	10:23:11	9m23s
✓	📄	⟳	✖	🔍	thoth-station/.github	#5 (5ecb6c8) by codificat	👁️	pre-commit	10:21:39	3m3s

RickBalrog

Our Services

**Grafana**

Dashboard anything. Observe everything.

**OpenDataHub**

We manage a deployment of Open Data Hub (ODH) on the Smaug cluster and OSC cluster

**ArgoCD**

Kubernetes native workflows, events, CI and CD. We manage a multi-tenant deployment of ArgoCD on the MOC Infra cluster

**Observatorium**

We have an instance of Observatorium currently being used to provision Thanos and Loki

**OpenShift Data Foundation**

ODF provides both persistent volumes and S3 compatible object storage via Rook Operator

**Dex OIDC Provider**

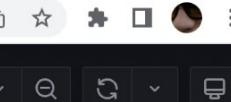
We manage an instance of Dex on the Smaug cluster to provide authentication for some of our services

Workloads

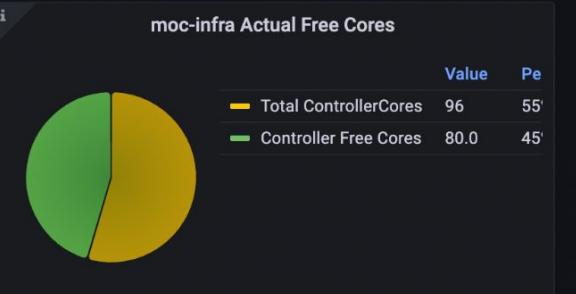
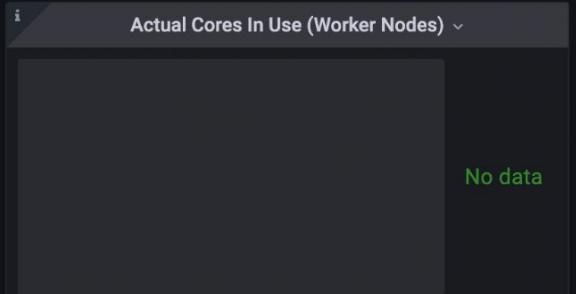
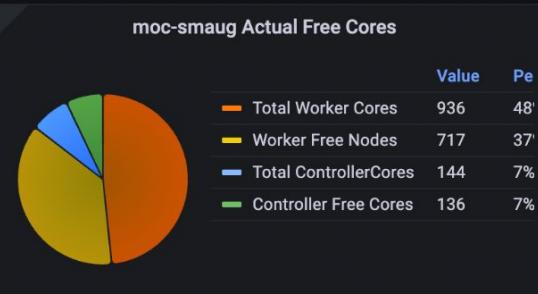
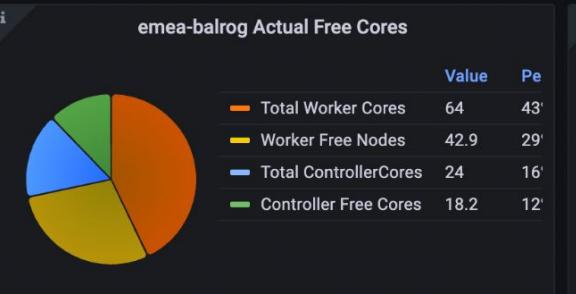
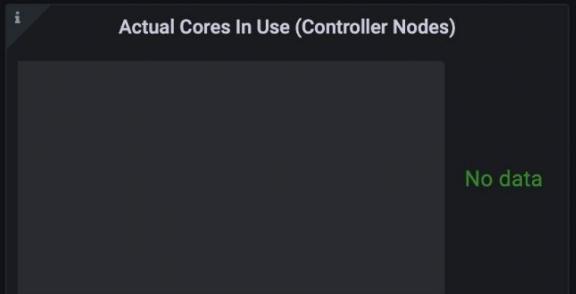


General / Landing Page

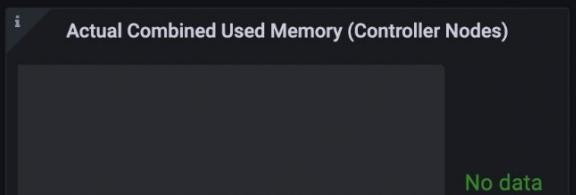
Last 1 hour



▼ Cluster CPU Overview



Cluster Memory Overview





Dashboards

Manage dashboards and folders

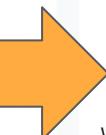
[Browse](#)[Playlists](#)[Snapshots](#)[Library panels](#) Search dashboards by name[New Dashboard](#)[New Folder](#)[Import](#)[Sort \(Default A-Z\)](#)[Filter by starred](#)[Filter by tag](#)[Cluster Management](#)[Kafka](#)[Kubeflow](#)[Open Data Hub](#)[Operate-First](#)[Prometheus](#)[Prometheus-Anomaly-Detector](#)[Pulp](#)[Thanos](#)

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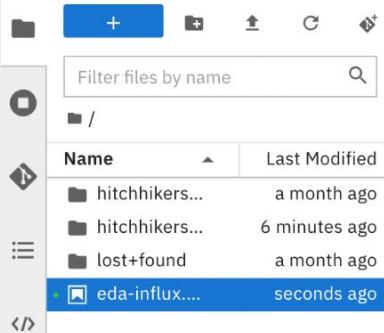
Workloads

Start a notebook server

Select options for your notebook server.

Notebook image

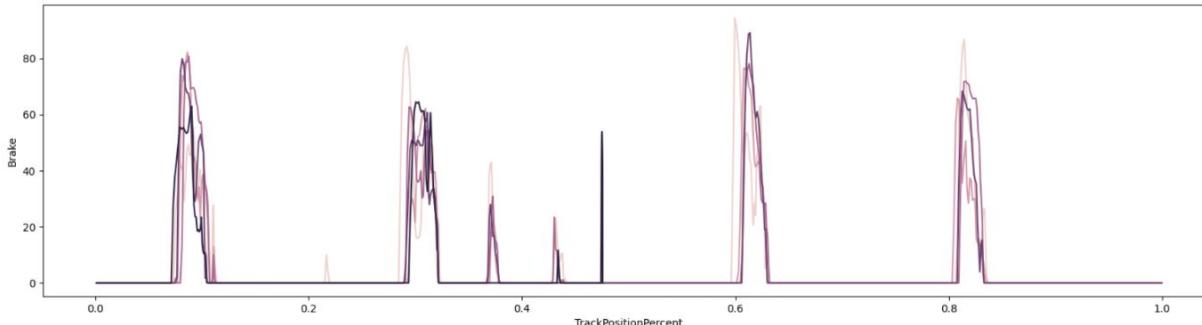
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- jupyterhub-6yi9fb
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- SciPy Notebook Image [?](#)
- meteor-2n7rk-jupyterhub
- Minimal Python with Apache Spark



Launcher		eda-influx.ipynb								
		Code	v	git	Run as Pipeline			Manage Dependencies ...		Python 3 C
2022-08-28 15:42:49.693000+00:00	_result	0	2022-08-28 15:42:49.693000+00:00	Formula Trainer	Monza-Monza_1991	0.0	3.0	0.994474		
2022-08-28 15:42:49.860000+00:00	_result	0	2022-08-28 15:42:49.860000+00:00	Formula Trainer	Monza-Monza_1991	0.0	3.0	0.996083		
2022-08-28 15:42:50.026000+00:00	_result	0	2022-08-28 15:42:50.026000+00:00	Formula Trainer	Monza-Monza_1991	0.0	3.0	0.997792		
2022-08-28 15:42:50.194000+00:00	_result	0	2022-08-28 15:42:50.194000+00:00	Formula Trainer	Monza-Monza_1991	0.0	3.0	0.999390		

793 rows x 8 columns

```
[37]: import seaborn as sns  
  
plt.rcParams["figure.figsize"] = (20,5)  
for c in ['Brake']:  
    sns.lineplot(data=df,x='TrackPositionPercent',y=c,hue='CurrentLap', legend=False)  
    plt.show()
```





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Pull requests Issues Marketplace Explore



Operate First

OPERATE
FIRST>>

Open-sourcing operations on community-managed clusters

🔗 <https://www.operate-first.cloud/>

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Git Hub organization configuration

⭐ 4 📈 57

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Jupyter Notebook ⭐ 6 📈 3

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This repo should serve as a central source for users to raise issues/questions/requests for Operate First.

⭐ 12 📈 24

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The sig-operations repository.

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⭐ 8 📈 15

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Code Issues 86 Pull requests 1 Discussions Wiki 0 Settings

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Filters is:issue is:open sort:updated-desc label:"good first issue"

Labels 129

New issue

Clear current search query, filters, and sorts

6 Open 13 Closed

Open all Author Label Projects Assignee Sort

Investigate and (possibly) add ArgoCD notifications to provide notifications of synchronizations on PRs/Commits



7

#713 opened on 21 Oct 2021 by (updated 8 days ago)

Upgrade kustomize in argocd to 4.5.0

8

#704 opened on 5 Nov 2021 by (updated 8 days ago)

Automation to remove complete projects from Done column on project board

2

#656 opened on 2 May by (updated 8 days ago)

[Ops-docs] Fill in with content the empty Section Headings of the Git-Ops Docs

2

#654 opened on 11 May by (updated 8 days ago) 5 of 16 tasks



Operate First ▾



Q Search Operate First

support ✓

support For all support related inquiries please direct them to this channel. We encourage the use of...



+ Add a bookmark



5 replies Last reply 14 days ago

Wednesday, August 31st



Marcel Hild 1:48 PM

Anybody seeing flakiness of login into smaug?



11 replies Last reply 13 days ago

Thursday, September 1st



Oindrilla Chatterjee 12:36 PM

Hi! I'm seeing Trino errors in all superset charts with an error like below

Monday, September 12th

`java.net.URISyntaxException: Expected authority at index 7: http://`

This may be triggered by:

Issue 1002 - The database returned an unexpected error.

Please reach out to the Chart Owners for assistance.



 19 replies Last reply 13 hours ago

Message #support



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Building an all-Open Source
community cloud to learn and make
things* better

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