

Kubernetes GitOps Workshop

April 27th 2022, CERN

<https://indico.cern.ch/event/1145174/>



GitOpsCon

EUROPE

17 MAY

VALENCIA, SPAIN

#GITOPSCON

REGISTER

EXPLORE THE SCHEDULE

<https://events.linuxfoundation.org/gitopscon-europe/>

Free Virtual Passes with your CERN email

<https://codimd.web.cern.ch/eGEghe2RRpezdNDuSdEYIA>

GitOps is an operational framework that takes DevOps best practices used for application development such as version control, collaboration, compliance, and CI/CD, and applies them to infrastructure automation.

GitOps = IaC + MRs + CI/CD

<https://gitlab.cern.ch/helm/releases/gitops-getting-started>

<https://gitlab.cern.ch/clange/gitops-argo-cd>

[Managing Kubernetes Deployments with Helm and Flux](#)

[From Zero to Running Physics Analysis Workflows with ArgoCD](#)

[A Multi-Cluster, Multi-Cloud Infrastructure with GitOps at CERN](#)

And other efforts...

Workshop Goals


Assess usage of GitOps in the Kubernetes and OpenShift community at CERN

Keep the focus on real use cases, several in production

Share experiences on usage of the multiple GitOps Tools

ArgoCD, Flux v1 and v2, GitLab CI, ...

Consider **consolidation** of these efforts moving forward

K8s and GitOps for ATLAS Rucio operation	<i>Radu Carpa</i>
31/3-004 - IT Amphitheatre, CERN	09:10 - 09:35
The way of the force: GitOps on JEEDY	<i>Antonio Nappi et al.</i>
31/3-004 - IT Amphitheatre, CERN	09:35 - 10:00
Abusing helm library chart and values for fun and profit	<i>Arthur Outhenin-Chalandre</i> 
31/3-004 - IT Amphitheatre, CERN	10:00 - 10:25
Coffee Break	
31/3-004 - IT Amphitheatre, CERN	10:25 - 10:40
RCS-SIS' collaborations hosting	<i>Benjamin Bergia</i>
31/3-004 - IT Amphitheatre, CERN	10:40 - 11:05
GitOps for Web Frameworks: ArgoCD, Gitlab CI and custom operators	<i>Jack Henschel et al.</i>
31/3-004 - IT Amphitheatre, CERN	11:05 - 11:30
GitOps in MONIT	<i>Luca Bello</i>
31/3-004 - IT Amphitheatre, CERN	11:30 - 11:55
Shhh... It's a Secret!	<i>Ricardo Rocha</i>
31/3-004 - IT Amphitheatre, CERN	11:55 - 12:20

Discussion and Next Steps

[Online Document](#)

Starter for the discussion at the end of the workshop

Hopefully a good base to move things forward in this area

Thanks to all speakers and participants!