



Using OpenShift, Jenkins and GitHub to Industrialize a Cloud-Native Application Lifecycle

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#RedHatOSD

Kiratech S.p.A.

Kiratech helps Enterprises in the

DIGITAL TRANSFORMATION JOURNEY

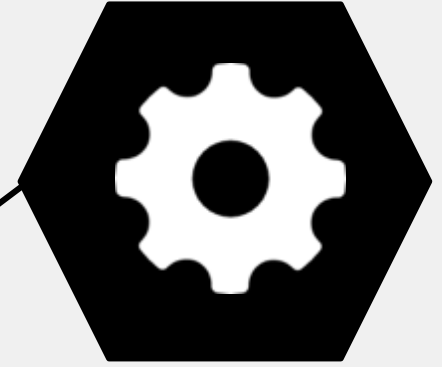
through:



**HIGH LEVEL
CONSULTING**



TRAINING



**RESALE OF THE
BEST TOOL**

For more than 10 years Kiratech has been selecting the **best technologies** and **methodologies** in the following fields:

DevOps



Automation, Orchestration & Monitoring
Container Deployment & Management
Continuous Integration, Delivery & Pipeline
Log Analytics & Continuous Monitoring



Cloud Transformation

Software Defined Data Center
Cloud Data Protection
Hybrid Cloud deployment
IoT & Machine Learning



Security

Penetration Test & Vulnerability Assessment
Anomaly Detection & User Behaviour Analytics
DevSecOps
0-Days and APT Detection

Vision

Skills



Innovation



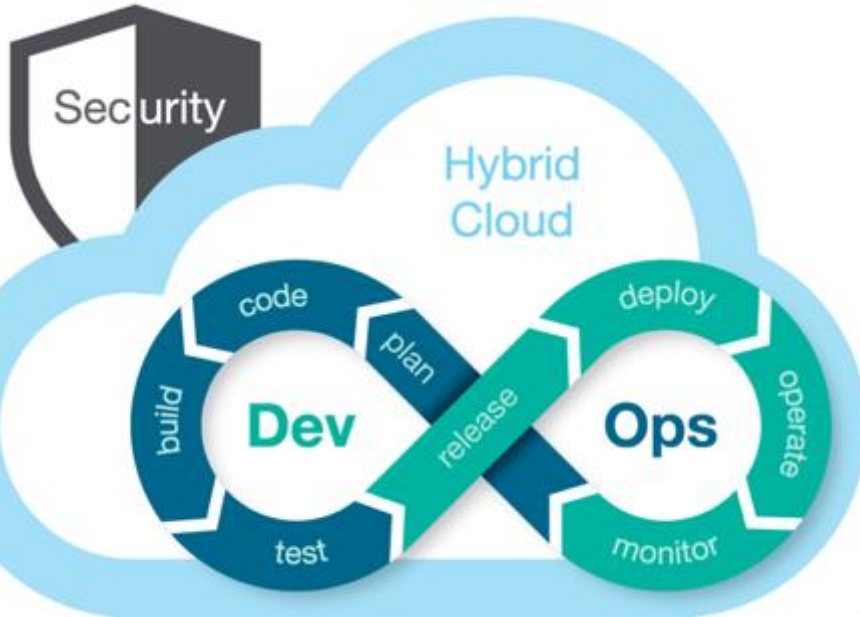
Skills and Certifications



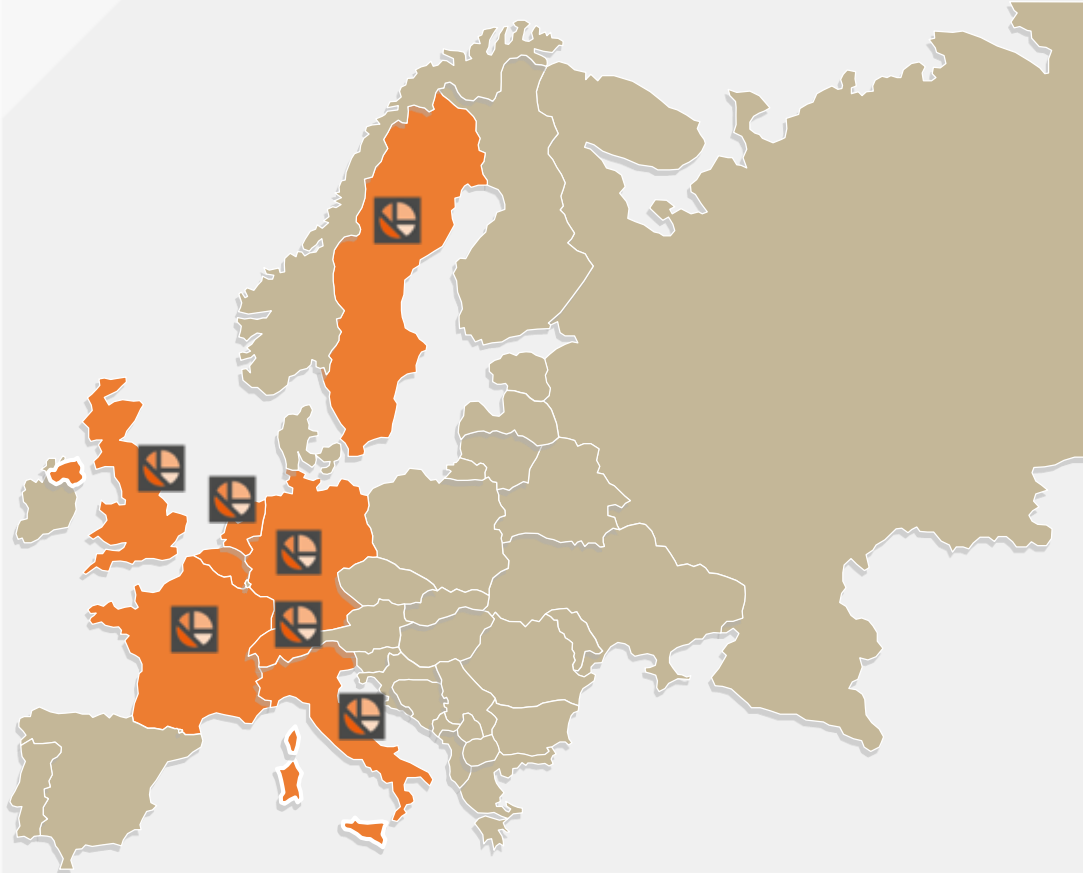
International Scouting of Technologies



Community Events Organization



OUR CUSTOMERS



OUR OFFICES



VERONA



MILAN



ROME



PARADISO (Switzerland)

VIRTUALIZATION



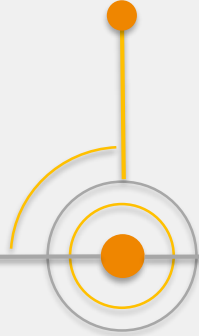
2005

- KIRATECH BECOMES RED HAT PARTNER
- STARTS THE DATA ANALYTICS BUSINESS

2009



KIRATECH EMBRACES DEVOPS VISION



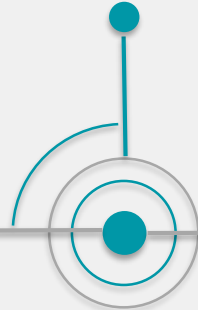
2012

2013



KIRATECH IS EMEA PRELERT PARTNER OF THE YEAR (now part of Elastic)

CONTAINER & MICROSERVICES



2015

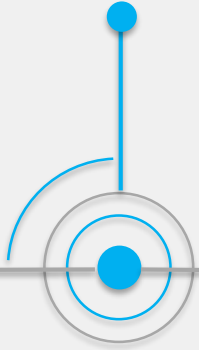
2017



KIRATECH IS GITHUB TOP EMEA PARTNER OF THE YEAR



KIRATECH IS CLOUDBEES EUROPEAN PARTNER OF THE YEAR

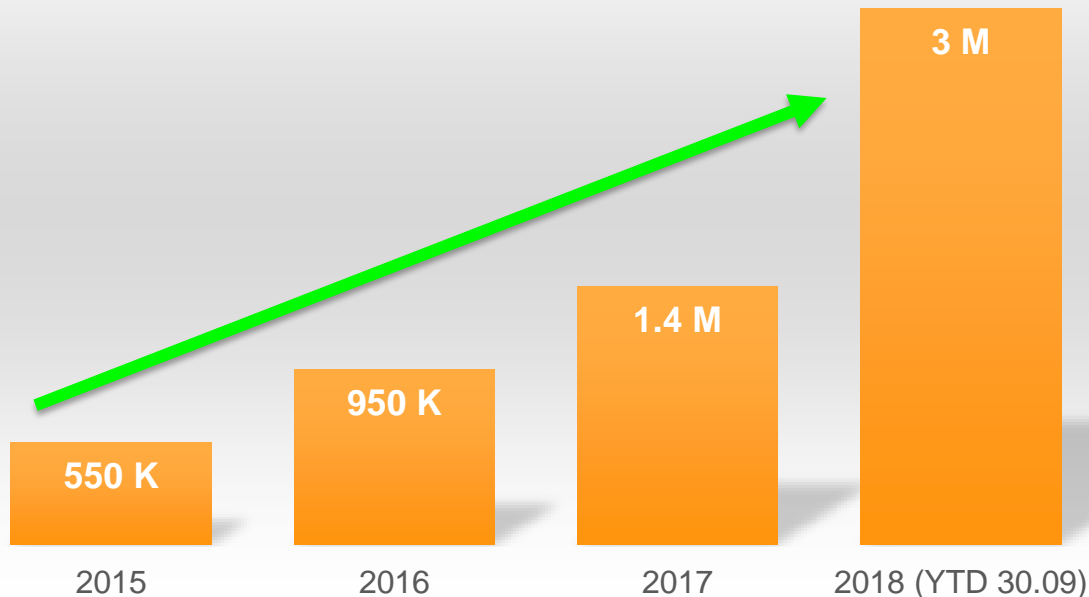


2018

OUR TECHNOLOGICAL EVOLUTION:

DEVOPS REVENUE

+ 421% over
the last 3 years



Presence on 4
of the 5 Top
Italian Banks

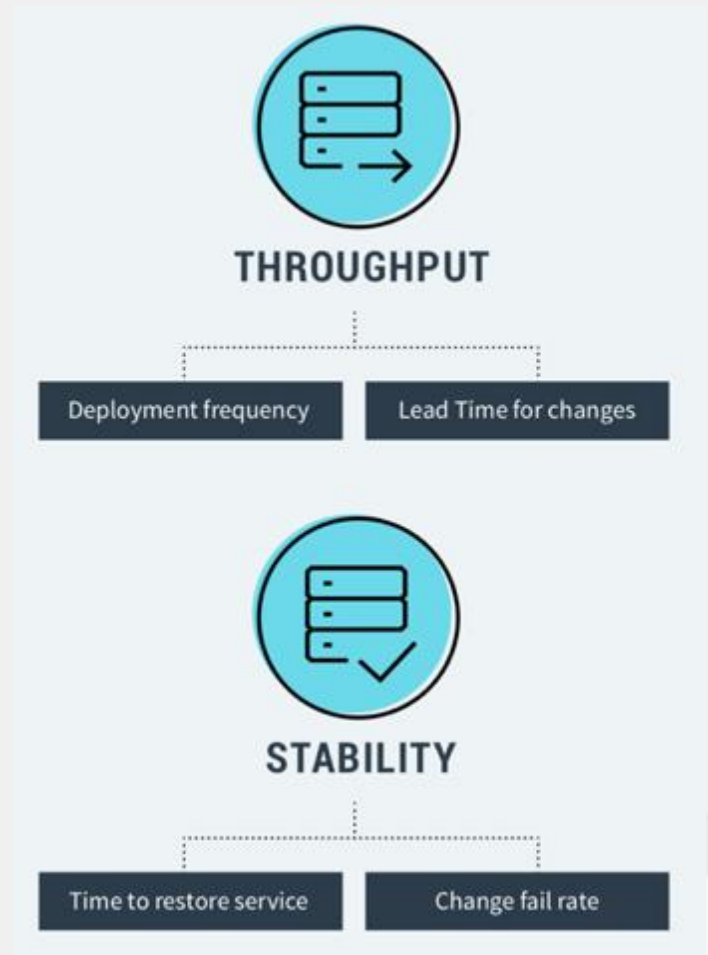
Presence on 2
of the 3 Top
Italian
insurances

DevOps is a set of practices intended to reduce the time between committing a change to a system and the change being placed into normal production, while ensuring high quality.

The DevOps approach is to include automation and event monitoring at all steps of the software build

Goals

- Reducing *Time to market*
- Reducing time for changes
- Maintain stability and predictability
- Resource optimization through automation
- Hybrid cloud / Cloud / Self provisioning



State of DevOps Report 2018: Key Findings

COMPARING THE ELITE
GROUP AGAINST THE LOW
PERFORMERS, WE FIND THAT
ELITE PERFORMERS HAVE...



46 TIMES MORE
frequent code deployments



2,555 TIMES FASTER
lead time from commit to deploy



7 TIMES LOWER
change failure rate
(changes are 1/7 as likely to fail)



2,604 TIMES FASTER
time to recover from incidents

DevOps = People + Tools



GitHub

- Code hosting
- Documentation
- Social coding
- Team management
- Integrations
- Collaborative code review
- Project Management



Unified platform for social coding and collaboration

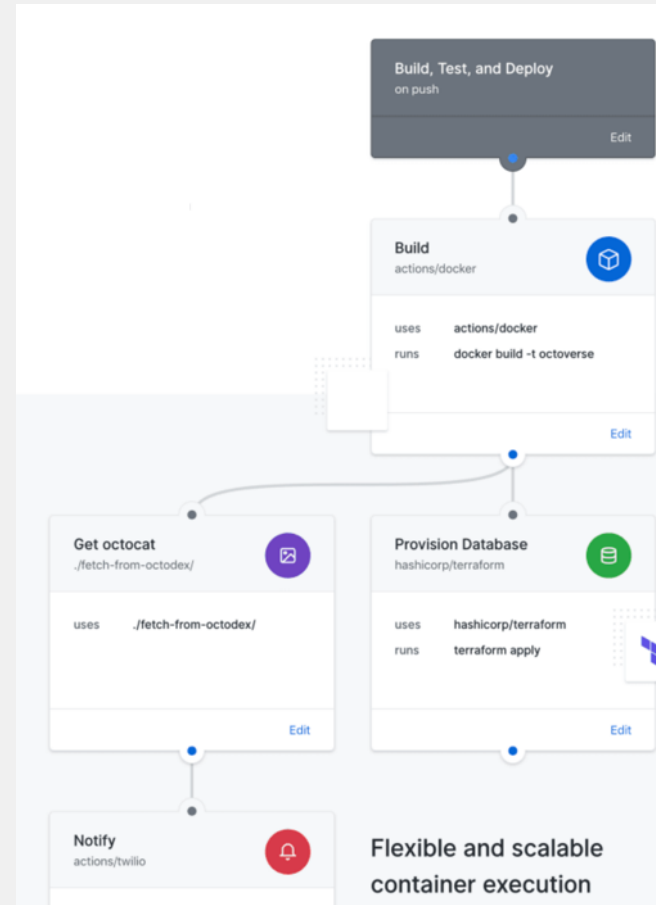
- Simple compliance
- Centralized permissions and RBAC
- Out of the box monitoring and dashboards
- Technical support
- Flexible hosting options: On-premises / Cloud
- Clustering and HA



GitHub Actions

Focus on what matters: code

- Actions are small bits of code that can be run off of various GitHub events, the most common of which is pushing to master
- Directly integrated with GitHub
- They're containers all the way down, so you could quite literally do *pretty much anything*
- You can connect up to 100 actions to create a Workflow





Jenkins

- Continuous Integration and Continuous Delivery
- Easy installation and configuration
- Jenkins can be extended via its plugin architecture
- Distributed architecture

Jenkins is the most popular continuous integration and continuous delivery system that increases your productivity and deliver more quality to your applications



- Enterprise Jenkins
- Built for Kubernetes and OpenShift
- Enable Security and Compliance
- Scale to many teams
- Simplify management of admin tasks
- Work with modern and legacy applications
- High availability
- Flexible Deployment Options

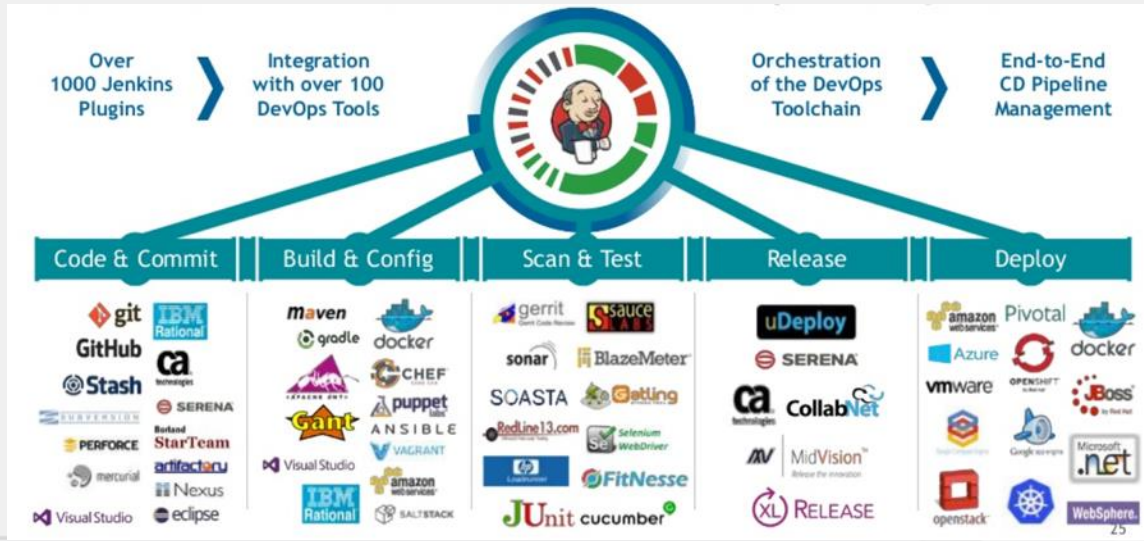
DevOps World

Jenkins World

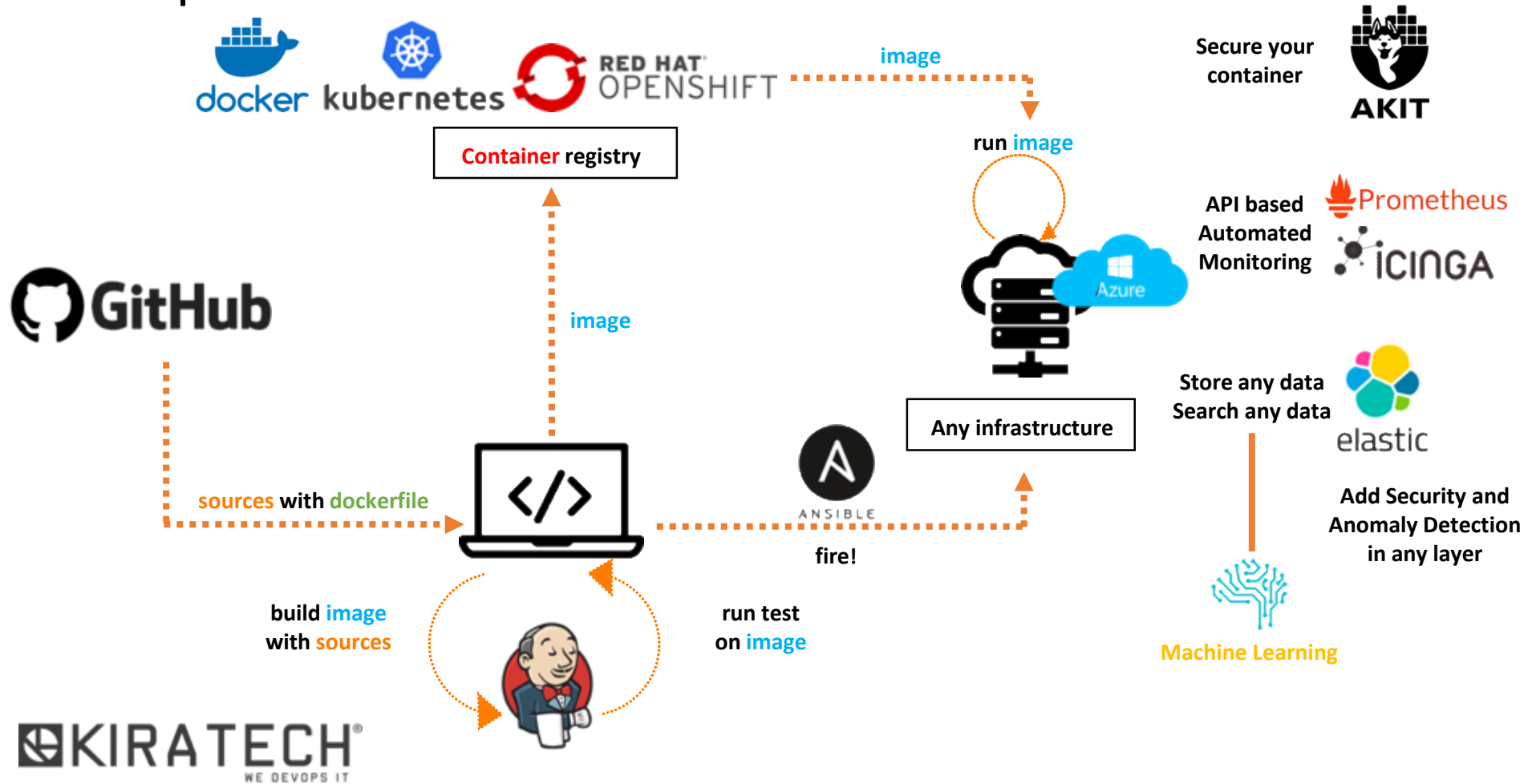
TRANSFORM: organizations are transforming software delivery, adopting DevOps and returning business value to their organization

from DevOps initiatives

- New CloudBees Core
- CloudBees DevOptics
- CloudBees CodeShip
- CloudBees Starter Kit
- CloudBees Apps



DevOps Reference Architecture



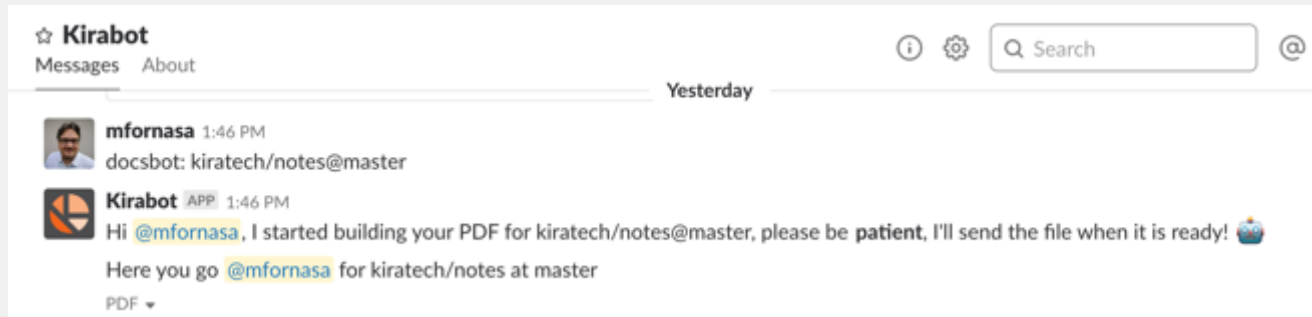
Everything as code – Enable GitOps

Operations by Pull Request

- GitHub as a single source of truth
- CloudBees Pipeline fully integrated
- Standard workflow from code to management extended by KiraBOT
- Works great in a cloud native or multi cloud environment
- Manage configurations, automation and legacy infrastructure
- Documentation, markdown, notifications on Slack
- Easy recovery from a total wipeout

Use Case: ChatOps with Kirabot

- Deployed on OpenShift
- Allows to interact with a Jenkins pipeline and a GitHub repo using commands in Slack



NEXT EVENTS

November 6th

WEBINAR – Misura e ottimizza le performance devops con Cloudbees DevOptics



November 28th

WORKSHOP DOCKER & KUBERNETES – ROMA + 1st JENKINS OFFICIAL MEETUP



A collection of lightbulbs of various colors (orange, yellow, white) scattered on an orange background. One lightbulb on the left is glowing white, while the others are unlit and have an orange glow.

We're Hiring

A DevOps Engineer

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