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WE DEVOPS IT

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

Giulio Covassi, CEO
Marco Bizzantino, CTO

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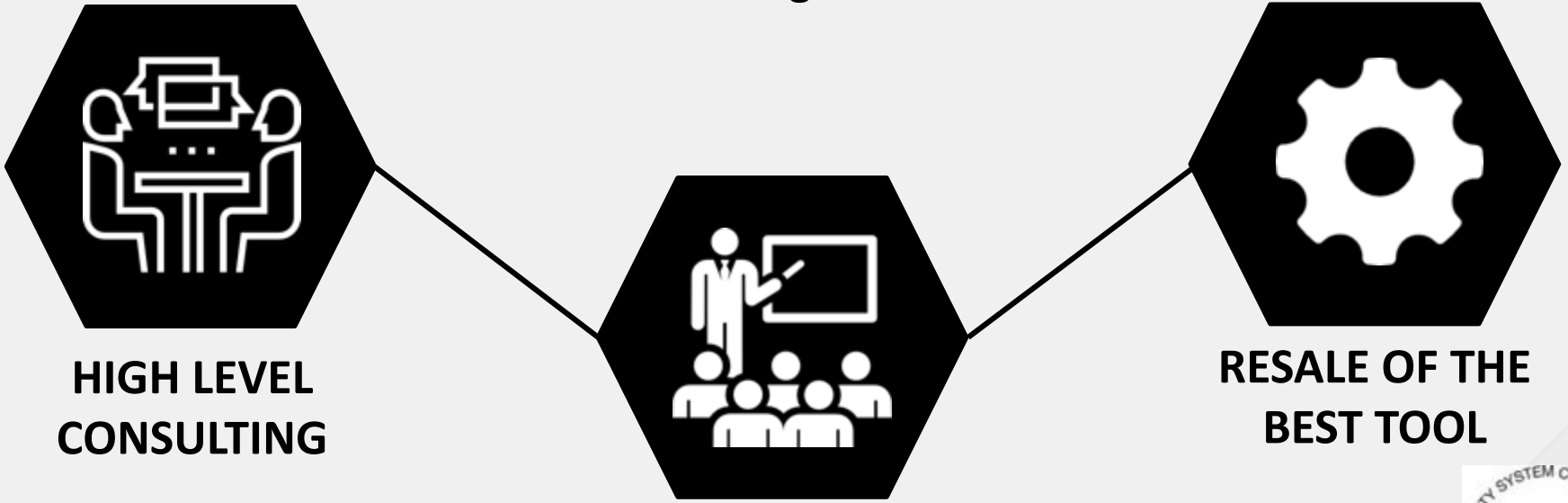
Kiratech S.p.A.

Kiratech helps Enterprises in the

DIGITAL TRANSFORMATION JOURNEY

through:



HIGH LEVEL CONSULTING

TRAINING

RESALE OF THE BEST TOOL

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QUALITY SYSTEM CERTIFICATION
DNV·GL
ISO 9001

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

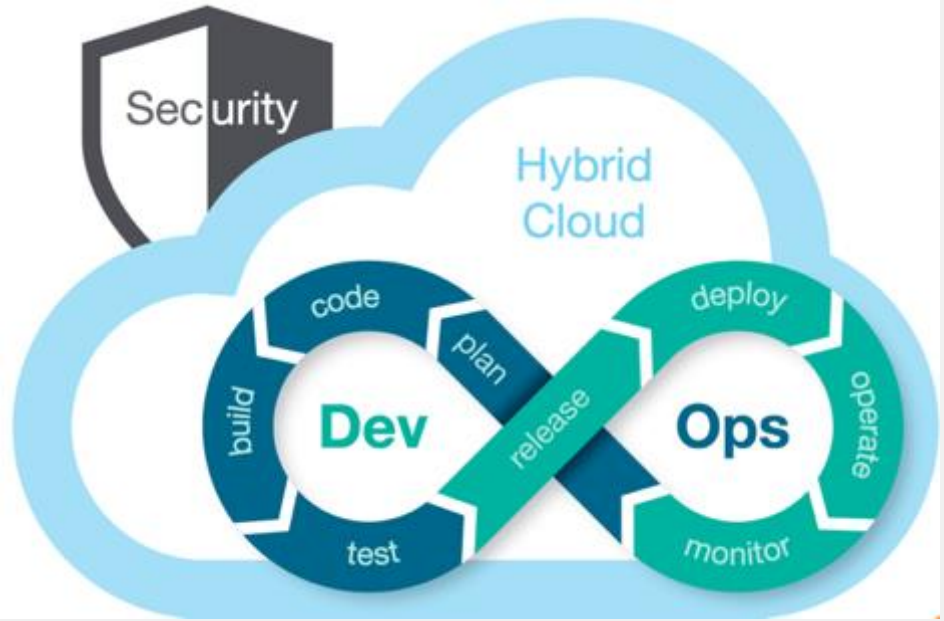
Cloud Transformation

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

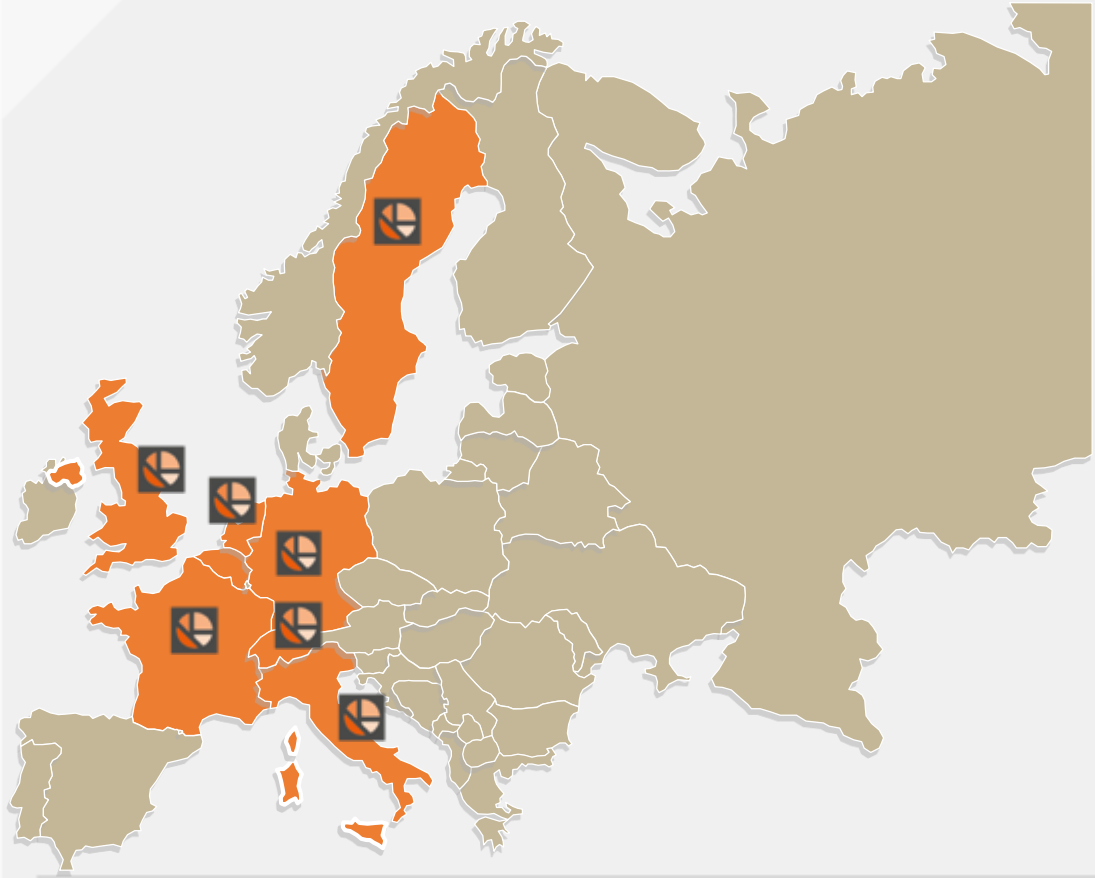
Innovation

Skills and Certifications

International Scouting of Technologies

Community Events Organization

OUR CUSTOMERS



OUR OFFICES

VERONA

MILAN

ROME

PARADISO (Switzerland)

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2005

VIRTUALIZATION

2009

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

2012

KIRATECH EMBRACES **DEVOPS VISION**

2013

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

2015

CONTAINER & MICROSERVICES

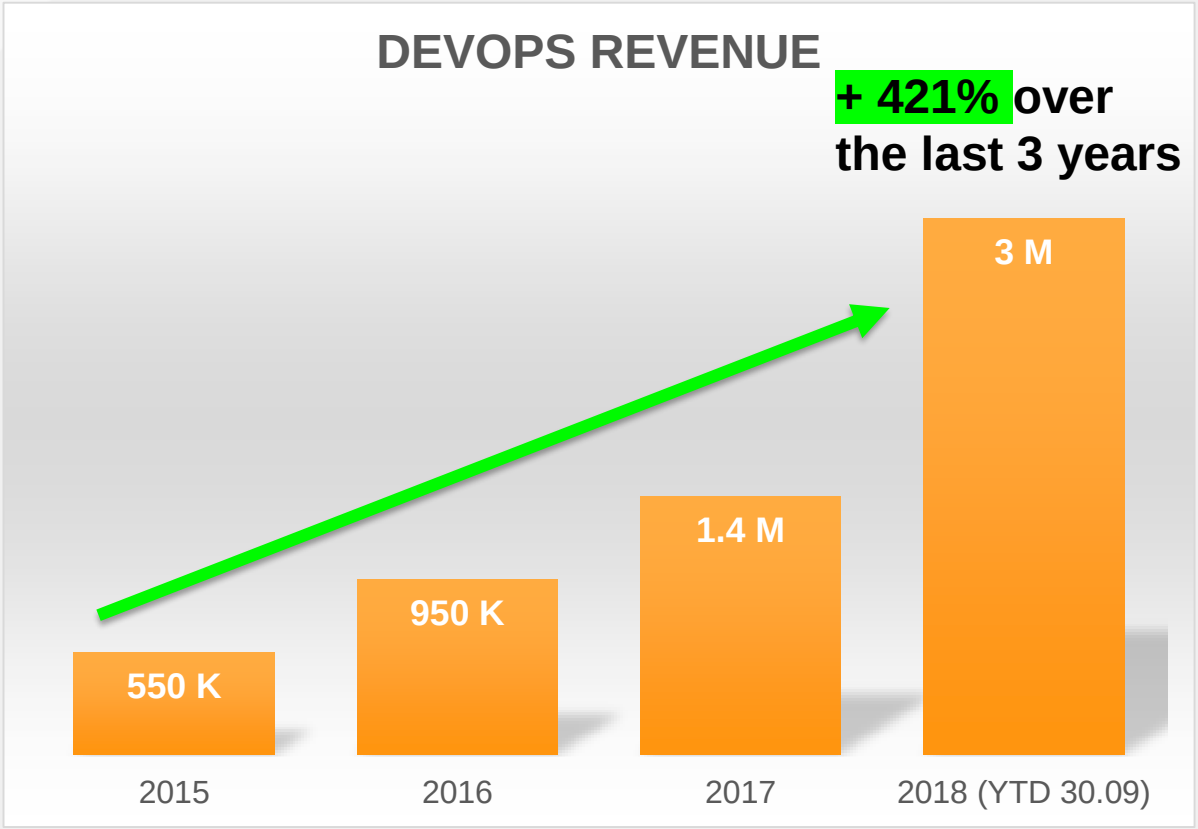
2017

KIRATECH IS **GITHUB TOP EMEA PARTNER OF THE YEAR**

2018

KIRATECH IS **CLOUDBEES EUROPEAN PARTNER OF THE YEAR**

OUR TECHNOLOGICAL EVOLUTION:



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 trough 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...

DevOps = People + Tools

GitHub

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

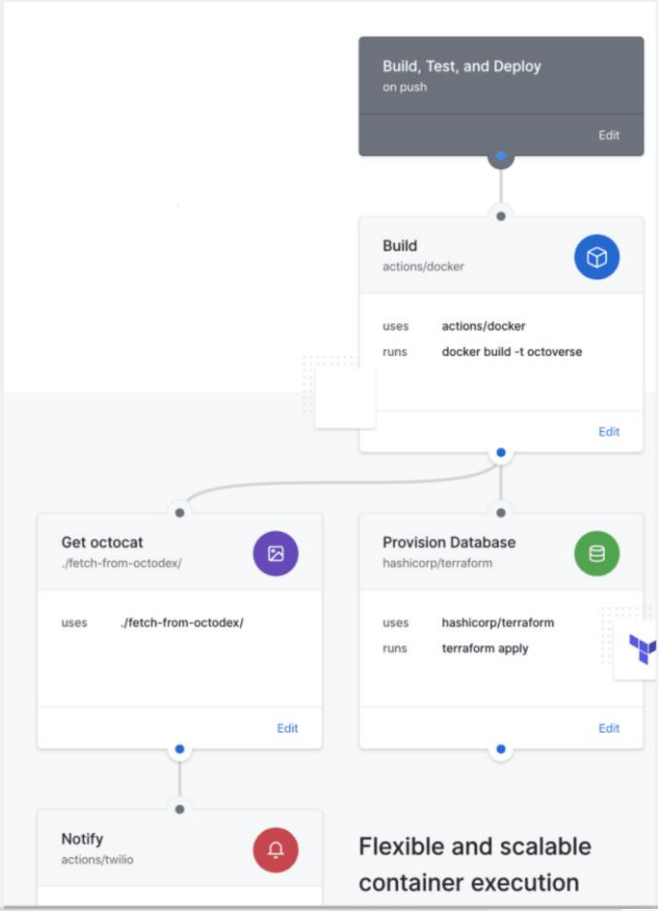
Unified platform for social coding and collaboration

- 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

cloudbees

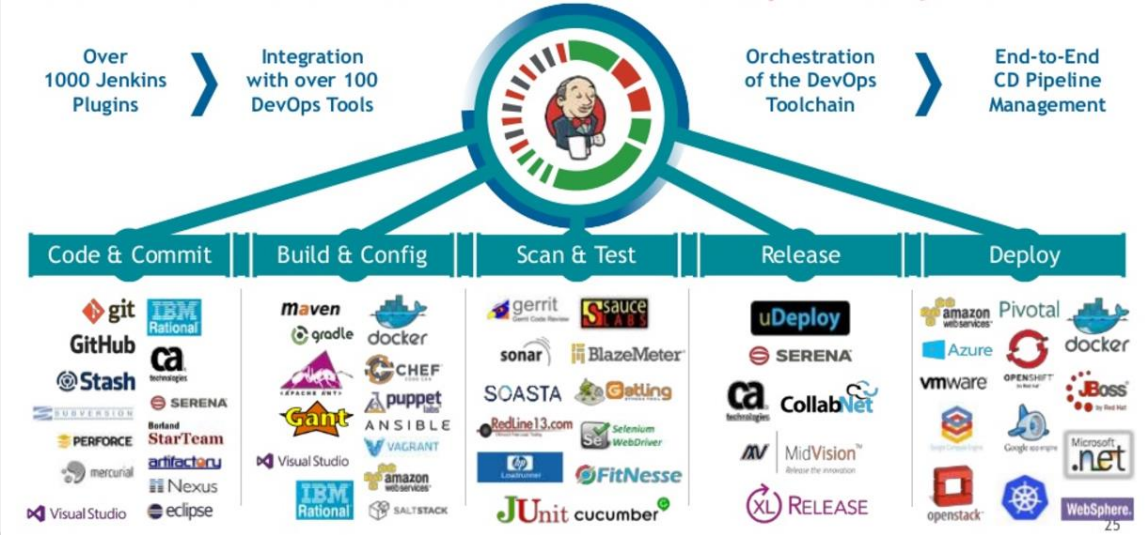
- Enterprise Jenkins
- Built for Kubernetes and OpenShift
- Enable Security and Compliance
- Scale to many teams
- Simplify management of admin tasks
- Work with modern and legacy applications
- High availability
- Flexible Deployment Options

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



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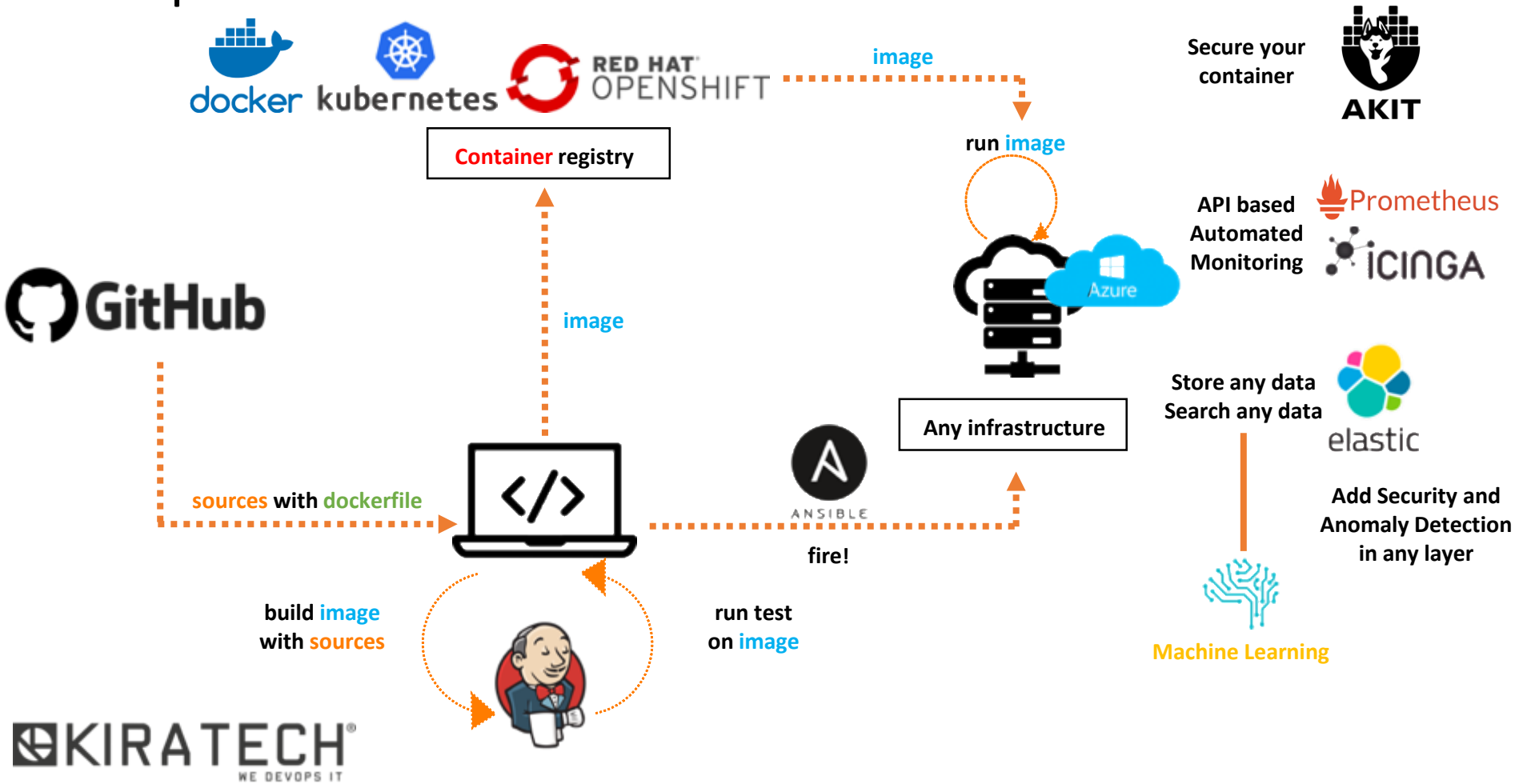
DevOps Reference Architecture



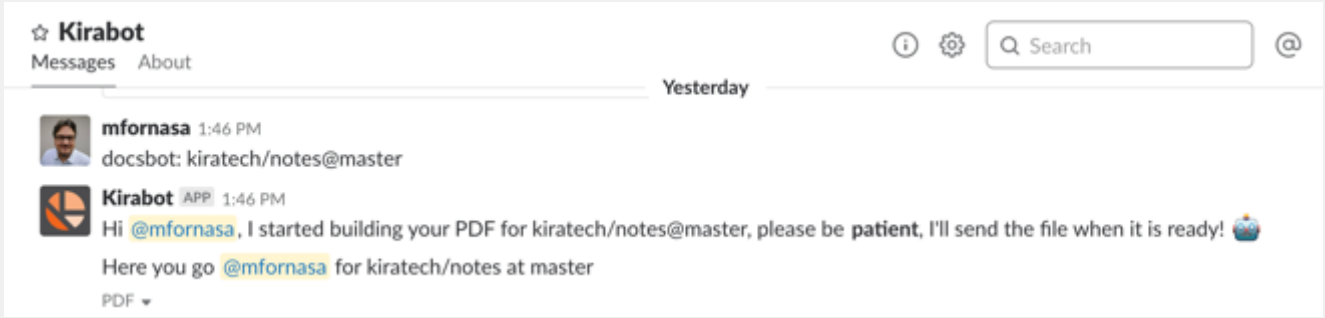
Everything as code – Enable GitOps

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 DevOps Engineer

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