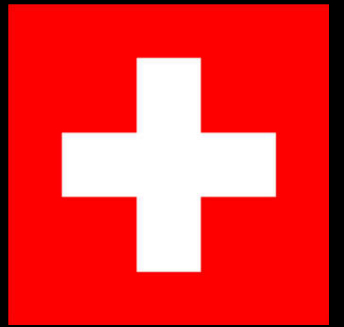


CI/CD Pipelines:

What? Why? How?



@ixchelruiz

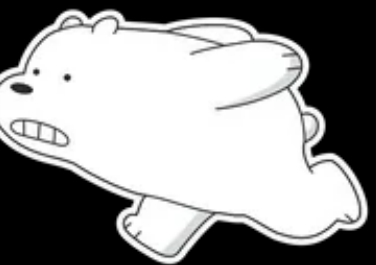


DevOps

Agile



Shift left



Devops Engineer average salary in Switzerland 2021

Find out what the average Devops Engineer salary is

Type in a job title:

Find salary

Salary rate

Annual

Month

Biweekly

Weekly

Day

Hour

Devops engineer: Salary

CHF 105'000 / Annual

Based on 162 salaries

The average **devops engineer** salary in **Switzerland** is **CHF 105'000** per year or **CHF 53.85** per hour. Entry-level positions start at **CHF 96'875** per year, while most experienced workers make up to **CHF 125'000** per year.

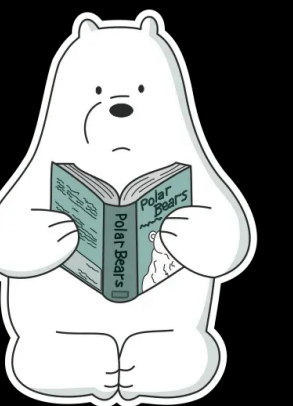
Median
CHF 105'000

Low
CHF 96'875

High
CHF 125'000



Definitions: CI / CD / CD

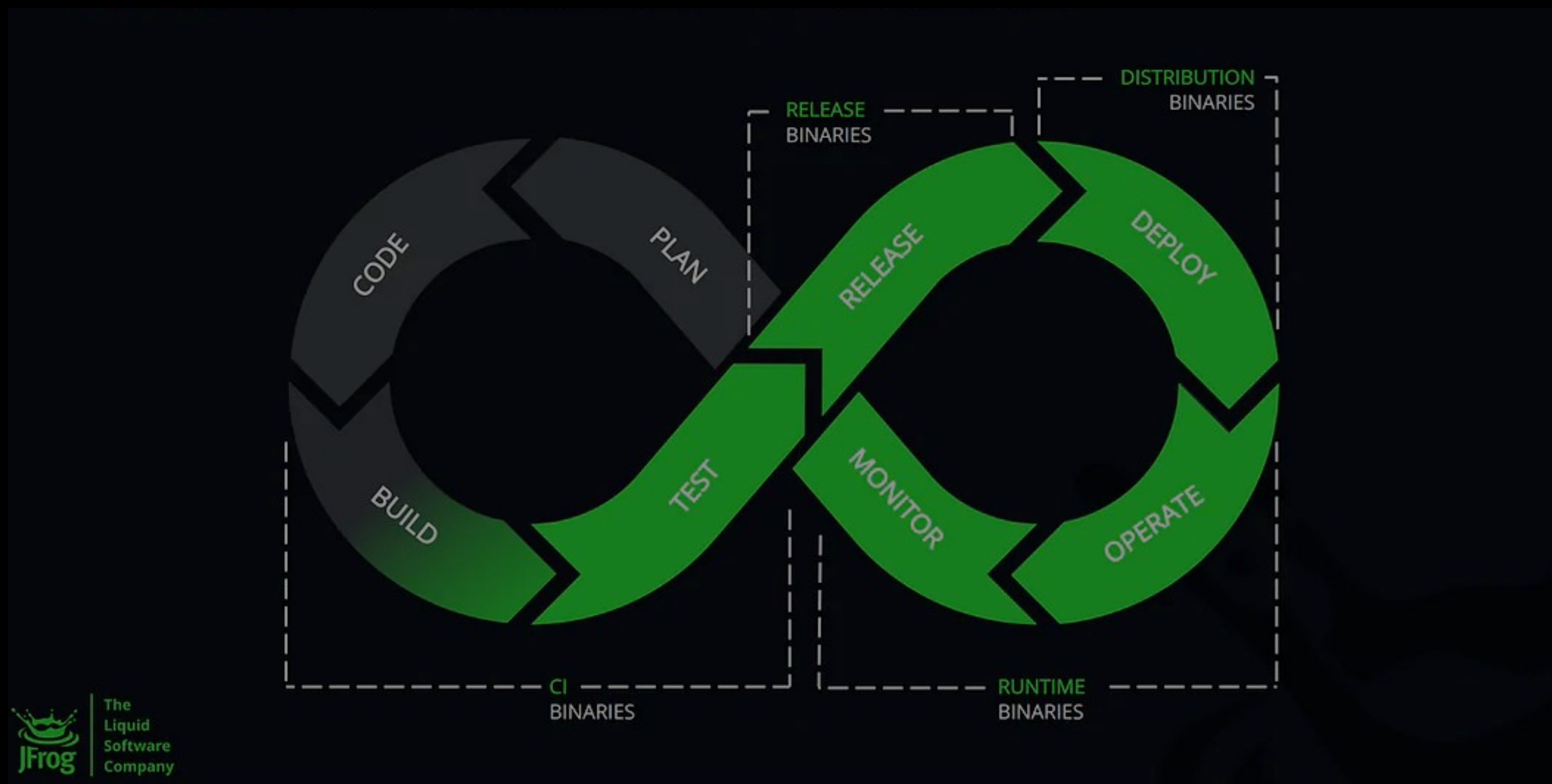


DevOps is a set of practices, tools, and a cultural philosophy that **automate** and **integrate** the processes between software development and IT teams. increases an organization's ability to **deliver** applications and services at high velocity

DevOps



Integration Delivery Deployment



DevOps



Continuous integration is a practice of automating the integration of code changes from multiple contributors into a single software project.

CI



Build



Test



Merge

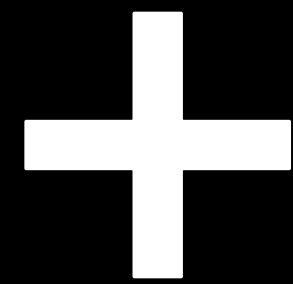


Continuous delivery is the next extension of continuous integration, **automates** the **packaging** & delivery of applications to selected infrastructure **environments** with minimal effort to deploy new code.

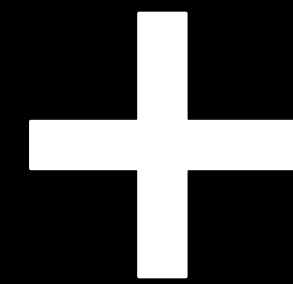
CD



Dependencies



Artifacts



Custom Data





Dependencies

+

Artifacts

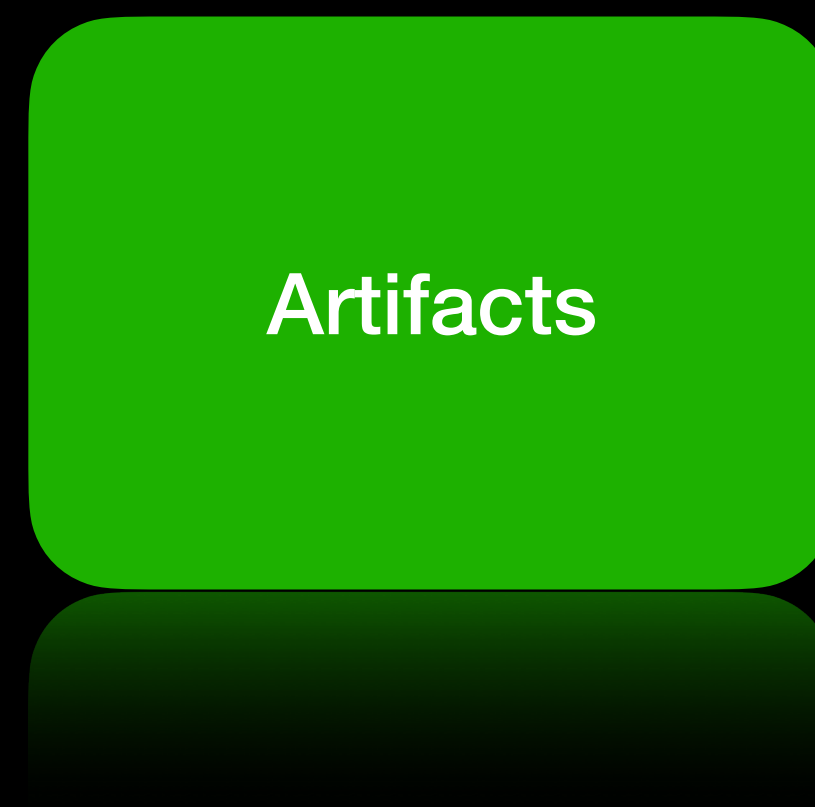
+

Custom Data





+



+



Continuous deployment is the **final phase** of the pipeline.
Is responsible for automatically launching and
distributing the software artifacts based on a codebase
that is always ready for deployment.

CD



*A CI/CD pipeline is a **series of steps** that must be performed in order to deliver a new version of software.*

Pipelines



Essential Components

DevOps Pipeline

- Source code management
- Continuous Integration servers
- Build automation
- Test automation
- Deployment



Common Sense

Right?



Tools



Github

Actions



Github

Actions

Workflows

Events


Jobs

Steps


Actions

Runners





[Pull requests](#) [Issues](#) [Marketplace](#) [Explore](#)

 [actions](#) / [starter-workflows](#)

Public

Watch 326

Star 5.3k

Fork 4.4k

<> Code

Issues 32

Pull requests 27

Actions

Projects

Security


Insights












main 19 branches 0 tags

Go to file

Add file

Code

 chenrui333 elixir: refresh dependencies (#1212) ✓ 56c93ff 2 days ago 969 commits

	.github	Secure workflows (#1) (#1072)	2 months ago
	.vscode	Add script and workflow to sync the set of starter-workflow...	2 years ago
	automation	Add a descriptive comment into stale.yml	2 months ago
	ci	elixir: refresh dependencies (#1212)	2 days ago
	code-scanning	Merge branch 'main' into adding-mobsf-to-codescanning	14 days ago
	deployments	Revert "Added new templates for 3 clouds."	20 days ago
	icons	Merge branch 'main' into adding-mobsf-to-codescanning	14 days ago
	script	removing "deployment" templates from sync-ghes (#1127)	last month
	.gitattributes	Include a .gitattributes	2 years ago
	.gitignore	Move ghes-sync into subfolder	2 years ago
	CODEOWNERS	Update CODEOWNERS	4 months ago

About

Accelerating new GitHub Actions workflows

[github.com/features/actions](#)

actions

Readme

View license

Code of conduct

Releases

No releases published

Packages

No packages published

<https://github.com/actions/starter-workflows>



Marketplace / Search results

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Apps

Actions ×

Categories

API management

Chat

Code quality

Code review

Continuous integration

Dependency management

Deployment

IDEs

Learning

Localization

Mobile

Search for apps and actions



Sort: Best Match



Actions



An entirely new way to automate your development workflow.



10584 results filtered by Actions ×



Actions



**Setup Go environment**
By actions 
Setup a Go environment and add it to the PATH
☆ 519 stars

**Upload a Build Artifact**
By actions 
Upload a build artifact that can be used by subsequent workflow steps
☆ 1.1k stars

**Download a Build Artifact**
By actions 
Download a build artifact that was previously uploaded in the workflow by the upload-artifact action
☆ 406 stars

**First interaction**
By actions 
Greet new contributors when they create their first issue or open their first pull request
☆ 140 stars

**Close Stale Issues**
By actions 
Close issues and pull requests with no recent activity
☆ 464 stars

**Setup .NET Core SDK**
By actions 
Used to build and publish .NET source. Set up a specific version of the .NET and authentication to private NuGet repository
☆ 888 stars

<https://github.com/marketplace?type=actions>



Gitlab

Pipelines

Gitlab

Pipelines

Jobs

Stages

```
image: maven:latest

variables:
  MAVEN_CLI_OPTS: "-s .m2/settings.xml --batch-mode"
  MAVEN_OPTS: "-Dmaven.repo.local=.m2/repository"

cache:
  paths:
    - .m2/repository/
    - target/

build:
  stage: build
  script:
    - mvn $MAVEN_CLI_OPTS compile

test:
  stage: test
  script:
    - mvn $MAVEN_CLI_OPTS test

deploy:
  stage: deploy
  script:
    - mvn $MAVEN_CLI_OPTS deploy
  only:
    - master
```





▼ On this page

Keywords

Global keywords

default

stages

workflow

workflow:rules

workflow:rules:variables

include

include:local

include:file



JFrog

Pipelines

JFrog

Pipelines

Resources

Steps

Runs



JFrog

Pipelines : Integration

An **Integration** connects Pipelines to an **external** service/tool.

Digital Ocean Integration
Distribution Integration
Docker Registry Integration
File Server Integration
Generic Integration
GitHub Enterprise Integration
GitHub Integration
GitLab Integration
Google Cloud Integration
Incoming Webhook Integration
Jenkins Integration
Jenkins Server Integration
Jira Integration
Kubernetes Integration
NewRelic Integration
Outgoing Webhook Integration
PagerDuty Events Integration
PEM Key Integration
Slack Integration
SMTP Credentials Integration
SSH Key Integration



JFrog

Pipelines : Resources

Contain **information** needed for a step in a pipeline to execute and can also be used to store information produced by a step.

VCS

File (remote server)

Docker image

Release bundle

Cluster



DEMO

YAY!!



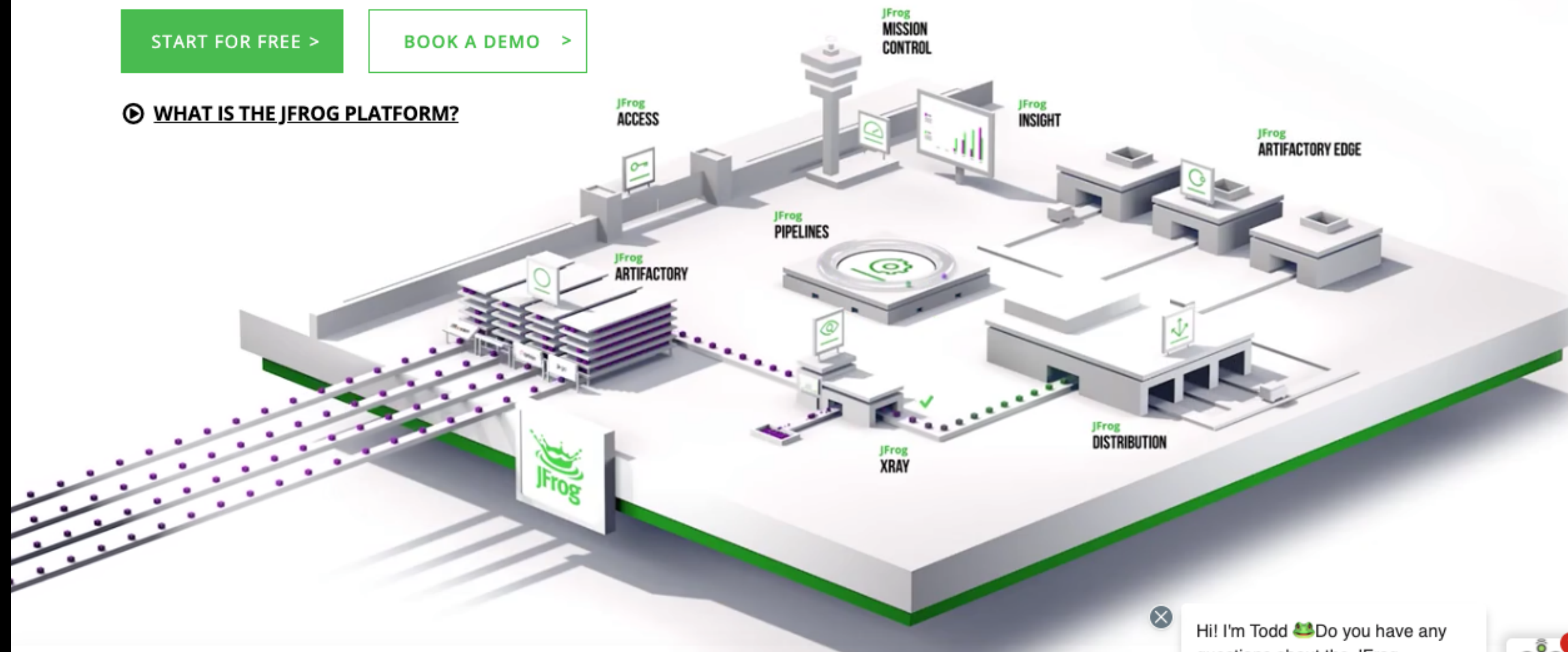
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THE JFROG PLATFORM

The core of DevOps automation.

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🕒 [WHAT IS THE JFROG PLATFORM?](#)



Hi! I'm Todd 🐸 Do you have any questions about the JFrog Platform?



<https://jfrog.com/platform/>



Thank

YOU!!!!!!

