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: Devops Engineer

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.
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.
Integration Delivery Deployment
Continuous integration is a practice of automating the integration of code changes from multiple contributors into a single software project.
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.
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.
A CI/CD pipeline is a *series of steps* that must be performed in order to deliver a new version of software.
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
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
  - 217 stars
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 : 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!!
THE JFROG PLATFORM

The core of DevOps automation.

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© WHAT IS THE JFROG PLATFORM?
Thank YOU!!!!!!
Dad: That kid said my artwork sucked!

Oh yeah... Well I'm going to teach him a lesson.

How to give good feedback:
1. Be positive
2. Be specific
3. Give a next step.

Good use of color, but I think it needs more detail.

I'll definitely wonder that friend.