

# DevSecOps

Lab

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# DevSecOps

- PART 1 – DevOps foundations
- PART 2 – DevSecOps to secure software
- PART 3 – Securing DevSecOps
- **PART 4 - Lab**

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# Lab

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# CICD and Security on Github

# Why GitHub

The main developer platform

- Build and ship software
- Complete solution
  - Provided Runner ( + codespace)
  - Provided Hosting
  - Security features
  - Collaboration features
  - Widely used by most open source software
  - Copilot, AI for development

## github.com Traffic Analysis

Github.com is ranked #42 in the world. This website is viewed by an estimated 17.5M visitors daily 101.9M pageviews. This equates to about 531.2M monthly visitors. Github.com traffic has increased compared to last month.

Daily Visitors

**17.5M**

▲19.25%

Monthly Visits

**531.2M**

▲11.52%

Pages per Visit

**5.81**

▲3.74%

Visit duration

**06:42**

▼0.31%

Bounce Rate

**37.20%**

▼1.62%



# About YAML

Important to start

## JSON

```
{
  "employees":
    [
      {
        "id": "40159",
        "name": "John",
        "technology": "Cloud computing",
        "title": "Engineer",
        "team": "Development"
      }
    ]
}
```

## YAML

```
employees:
  - id: '40159'
    name: John
    technology: Cloud computing
    title: Engineer
    team: Development
```

# About YAML

Important to start

- Be careful of indentation and space
- Think JSON, remove delimiter
- Read editor help
- Find a tutorial if needed  
(<https://www.cloudbees.com/blog/yaml-tutorial-everything-you-need-get-started>)

## Lab agenda

What's up today ?

- Exercice 1 : Hello World
- Exercice 2 : Build and Test
- Exercice 3 : Execute SCA
- Exercice 4 : Execute SAST

All explained in the [README](#), read carefully

Remind me to give you [HINTS](#) before we leave



# Let's go

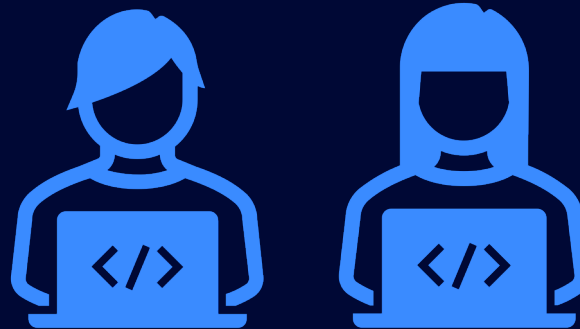
Time to start

1. Login (sign-up?) to github
2. Go to “<https://github.com/bhilaire1a/devsecops-polydec24>”
3. Fork the REPO
4. Start the exercice
5. Keep a record of expected results of the exercice

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# Time to code !

<https://github.com/bhilaire1a/devsecops-polydec24>



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# HINTS

Some helps for the lab

## Exercise 1

This exercise can be done thanks to steps explained in [Github tutorial guide 1](<https://resources.github.com/learn/pathways/automation/essentials/building-a-workflow-with-github-actions/>)

## Exercise 2

This exercise can be done thanks to steps explained in [Github tutorial guide 2](<https://resources.github.com/learn/pathways/automation/essentials/how-to-make-an-application-with-github-actions/>) and [Github tutorial guide 3](<https://resources.github.com/learn/pathways/automation/essentials/application-testing-with-github-actions/>)

## Exercise 3

The usual SCA for nodeJS is included in npm and is [npm-audit](<https://docs.npmjs.com/cli/v9/commands/npm-audit>)

## Exercise 4

A simple SAST for NodeJS is [Bearer](<https://docs.bearer.com/>)