

# GITHUB ACTIONS

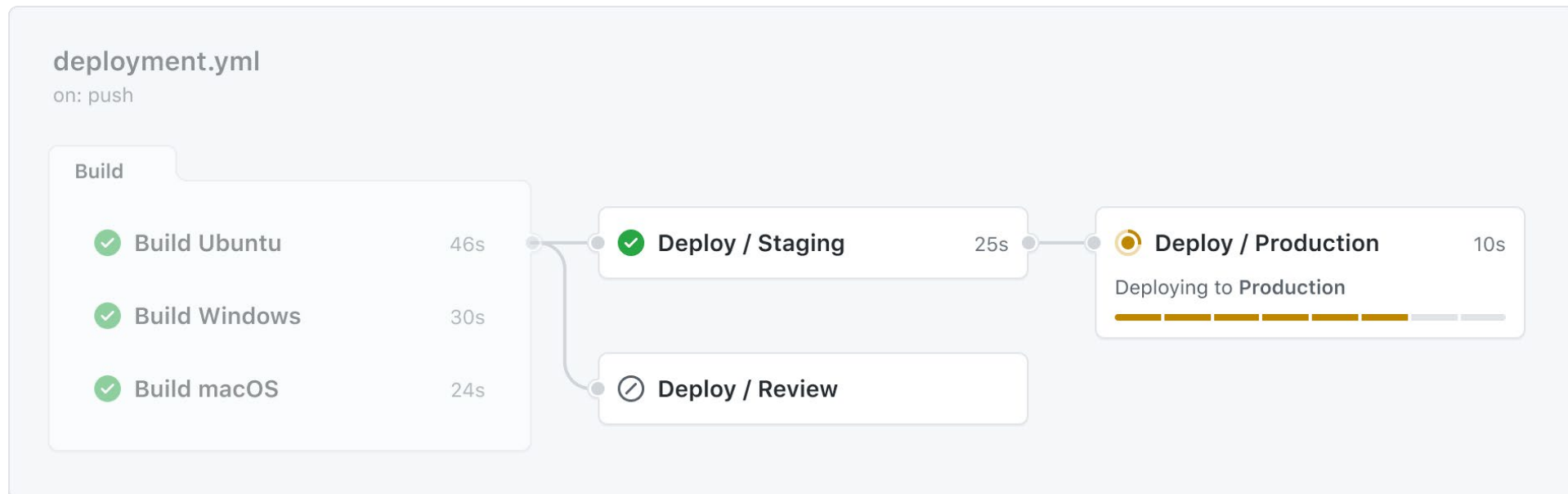
## REUSABLE WORKFLOWS

Houssem Dellai



# Github Actions – Reusable Workflows - Introduction

- The same way we can perform code refactoring in software, we can perform pipeline refactoring in Workflows.
- A workflow could be created and reused in multiple workflows.



# Github Actions – Reusable Workflows - Advantages

The Reusing workflows avoids duplication.

Workflows will be easier to maintain.

Developing new workflows will be faster if reusing the existing ones.

Help creating a central library for workflows where best practices are applied.

# Github Actions – Reusable Workflows - Limitations

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**Access**

Control how this repository is used by GitHub Actions workflows in other repositories. [Learn more.](#)

☐ **Not accessible**  
Workflows in other repositories cannot access this repository.

☒ **Accessible by any repository in the organization**  
Workflows in other repositories can access this repository as long as they are part of the same organization.

☐ **Accessible by any repository in the enterprise**  
Workflows in other repositories can access this repository as long as they are part of the same enterprise.

**Save**

- You can connect up to four levels of workflows.
- Reusable workflows stored within a private repository can only be used by workflows within the same repository.
- Any environment variables set in an env context defined at the workflow level in the caller workflow are not propagated to the called workflow.

# Github Actions – Reusable Workflows - Demonstration

```
080-reusable-workflow-caller.yml 2, M X
GitHub Workflow (github-workflow.json)
1 name: 080-reusable-workflow-caller
2
3 on:
4   push:
5     branches: none # [.main.]
6   pull_request:
7     branches: none # [.main.]
8
9   # Allows you to run this workflow manually from the Actions tab
10  workflow_dispatch:
11
12 jobs:
13   call-workflow-A:
14     uses: HousseinDellai/github-actions-course/.github/workflows/080-reusable-workflow-called.yml@main
15     with:
16       username: Houssein
17     secrets:
18       token: ${ secrets.TOKEN }
19
20   call-workflow-B:
21     uses: HousseinDellai/github-actions-course/.github/workflows/080-reusable-workflow-called.yml@main
22     with:
23       username: Dellai
24     secrets:
25       token: ${ secrets.TOKEN }
```

```
080-reusable-workflow-called.yml M X
GitHub Workflow (github-workflow.json)
1 name: 080-reusable-workflow-called
2
3 on:
4   workflow_call:
5     inputs:
6       username:
7         required: true
8         type: string
9     secrets:
10      token:
11        required: true
12
13 jobs:
14   example_job:
15     name: Pass input and secrets to my action
16     runs-on: ubuntu-latest
17     steps:
18       - name: Run a script
19         run: echo Hello, ${ inputs.username }
```

# Github Actions – Reusable Workflows - Resources

Official documentation:

<https://docs.github.com/en/actions/using-workflows/reusing-workflows>