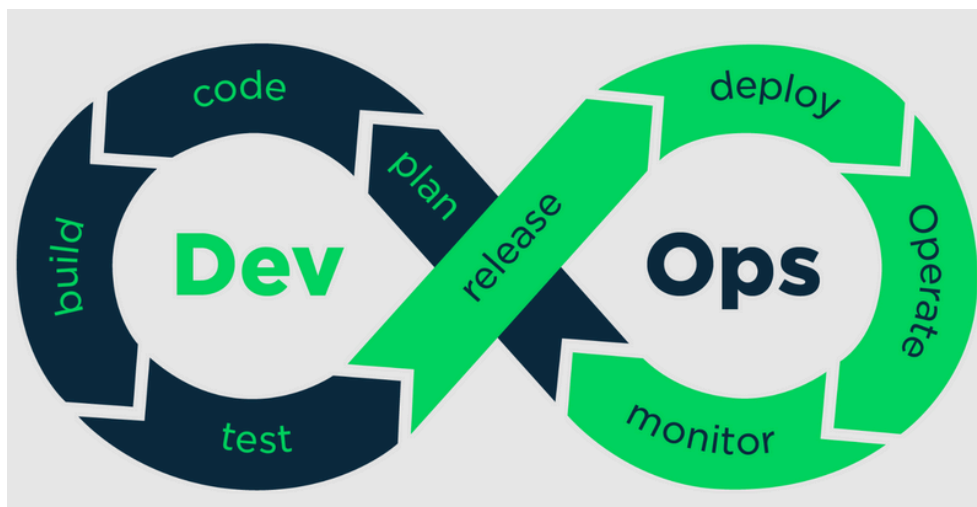


RAPPORT TP DEVOPS

Filière : Informatique et ingénierie de données



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Créez un nouveau projet Angular

D'abord, assurez-vous d'avoir Node.js et Angular CLI installés. Ensuite, créez un nouveau projet Angular:

```
C:\Users\naji\Desktop\tp-devops>ng new hello-world
✓ Which stylesheet format would you like to use? CSS [ https://developer.mozilla.org/docs/Web/CSS ]
✓ Do you want to enable Server-Side Rendering (SSR) and Static Site Generation (SSG/Prerendering)? No
CREATE hello-world/angular.json (2706 bytes)
CREATE hello-world/package.json (1080 bytes)
CREATE hello-world/README.md (1532 bytes)
CREATE hello-world/tsconfig.json (942 bytes)
CREATE hello-world/.editorconfig (331 bytes)
CREATE hello-world/.gitignore (629 bytes)
CREATE hello-world/tsconfig.app.json (439 bytes)
CREATE hello-world/tsconfig.spec.json (449 bytes)
CREATE hello-world/.vscode/extensions.json (134 bytes)
CREATE hello-world/.vscode/launch.json (490 bytes)
CREATE hello-world/.vscode/tasks.json (980 bytes)
CREATE hello-world/src/main.ts (256 bytes)
CREATE hello-world/src/index.html (309 bytes)
CREATE hello-world/src/styles.css (81 bytes)
CREATE hello-world/src/app/app.component.html (20239 bytes)
CREATE hello-world/src/app/app.component.spec.ts (960 bytes)
CREATE hello-world/src/app/app.component.ts (299 bytes)
CREATE hello-world/src/app/app.component.css (0 bytes)
CREATE hello-world/src/app/app.config.ts (318 bytes)
CREATE hello-world/src/app/app.routes.ts (80 bytes)
CREATE hello-world/public/favicon.ico (15086 bytes)
✓ Packages installed successfully.
  Successfully initialized git.

C:\Users\naji\Desktop\tp-devops>cd hello-world

C:\Users\naji\Desktop\tp-devops\hello-world>ng serve
```

Initialisez un dépôt Git

Initialisez un dépôt git localement dans votre répertoire de projet:

```
C:\Users\naji\Desktop\tp-devops\hello-world>git init
Reinitialized existing Git repository in C:/Users/naji/Desktop/tp-devops/hello-world/.git/

C:\Users\naji\Desktop\tp-devops\hello-world>git add .

C:\Users\naji\Desktop\tp-devops\hello-world>git commit -m "Initial commit"
[main 8594761] Initial commit
1 file changed, 3 insertions(+)

C:\Users\naji\Desktop\tp-devops\hello-world>git remote add origin https://github.com/naji111/devops.git

C:\Users\naji\Desktop\tp-devops\hello-world>git branch -M main

C:\Users\naji\Desktop\tp-devops\hello-world>git push -u origin main
Enumerating objects: 31, done.
Counting objects: 100% (31/31), done.
Delta compression using up to 8 threads
Compressing objects: 100% (29/29), done.
Writing objects: 100% (31/31), 127.47 KiB | 9.10 MiB/s, done.
Total 31 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), done.
To https://github.com/naji111/devops.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

C:\Users\naji\Desktop\tp-devops\hello-world>git add .github/workflows/ci.yml

C:\Users\naji\Desktop\tp-devops\hello-world>git commit -m "Add CI workflow"
[main 6c363d5] Add CI workflow
```

Effectuer un premier commit pour ajouter les fichiers de base du projet au dépôt

Créez un dépôt GitHub

Allez sur GitHub et créez un nouveau dépôt.

Ensuite, liez votre dépôt local à celui de GitHub:

```
C:\Users\naji\Desktop\tp-devops\hello-world>ng serve

Would you like to share pseudonymous usage data about this project with the Angular Team
at Google under Google's Privacy Policy at https://policies.google.com/privacy. For more
details and how to change this setting, see https://angular.dev/cli/analytics.

yes

Thank you for sharing pseudonymous usage data. Should you change your mind, the following
command will disable this feature entirely:

  ng analytics disable

Global setting: enabled
Local setting: enabled
Effective status: enabled
Initial chunk files | Names          | Raw size
polyfills.js        | polyfills      | 90.20 kB |
main.js             | main           | 18.18 kB |
styles.css          | styles        | 95 bytes |
                    | Initial total  | 108.48 kB

Application bundle generation complete. [2.960 seconds]

Watch mode enabled. Watching for file changes...
NOTE: Raw file sizes do not reflect development server per-request transformations.
  → Local:    http://localhost:4200/
  → press h + enter to show help
```

Ajouter un fichier de configuration GitHub Actions

Créez un fichier de workflow pour GitHub Actions dans .github/workflows/ci.yml:

```
name: CI
```

```
on:
```

```
  push:
```

```
    branches: [ main ]
```

```
  pull_request:
```

```
    branches: [ main ]
```

```
jobs:
```

```
  build:
```

```
    runs-on: ubuntu-latest
```

```
    steps:
```

```
      - name: Checkout repository
```

```
        uses: actions/checkout@v2
```

```
      - name: Set up Node.js
```

```
        uses: actions/setup-node@v2
```

```
        with:
```

```
          node-version: '14'
```

```
      - name: Install dependencies
```

```
        run: npm install
```

```
      - name: Build the project
```

```
        run: npm run build
```

```
      - name: Run tests
```

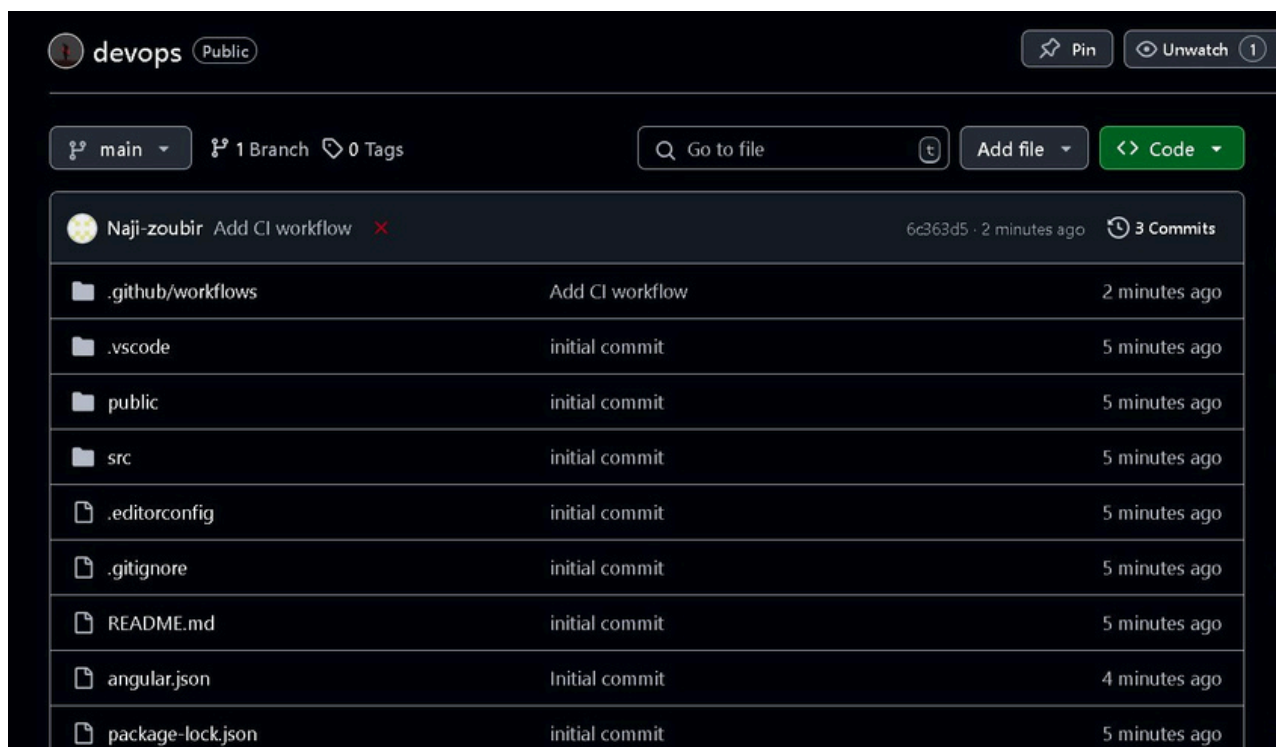
```
        run: npm test
```

Poussez le fichier de workflow sur GitHub
Ajoutez et poussez le fichier de workflow que
vous venez de créer:

```
C:\Users\naji\Desktop\tp-devops\hello-world>git commit -m "Add CI workflow"
[main 6c363d5] Add CI workflow
 1 file changed, 29 insertions(+)
 create mode 100644 .github/workflows/ci.yml

C:\Users\naji\Desktop\tp-devops\hello-world>git push
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 613 bytes | 613.00 KiB/s, done.
Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/najil11/devops.git
 8594761..6c363d5  main -> main
```

Avec ces étapes, chaque fois que vous poussez
une nouvelle modification sur la branche main,
GitHub Actions déclenchera automatiquement
le workflow pour construire et tester votre
projet Angular.



The screenshot shows the GitHub interface for a repository named 'devops'. At the top, there's a header with the repository name, a 'Public' badge, and buttons for 'Pin' and 'Unwatch'. Below the header, there's a navigation bar with 'main' selected, '1 Branch', and '0 Tags'. A search bar and buttons for 'Add file' and 'Code' are also present. The main content area displays a list of commits. The most recent commit is 'Add CI workflow' by 'Naji-zoubir', committed 2 minutes ago. Below this, there's a list of files and their commit history, showing that most files were part of the 'initial commit' 5 minutes ago.

File	Commit Message	Time
.github/workflows	Add CI workflow	2 minutes ago
.vscode	initial commit	5 minutes ago
public	initial commit	5 minutes ago
src	initial commit	5 minutes ago
.editorconfig	initial commit	5 minutes ago
.gitignore	initial commit	5 minutes ago
README.md	initial commit	5 minutes ago
angular.json	Initial commit	4 minutes ago
package-lock.json	initial commit	5 minutes ago



Hello, hello-world

Congratulations! Your app is running. 🎉

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