

Repozytoria:

- <https://github.com/Ornez/fullstack-lab10-config>
 - <https://hub.docker.com/u/student232323>
- ## Zadanie 1A

fullstack-lab10-so

<head>

```
<title>Lab10</title>
</head>

<body>
  <h1>Lab10</h1>
  <ul>
    <li>Author Name: Łukasz Chudy</li>
    <li>App Version: 1.0.3</li>
    <li>Dockerfile: <br><code>
      FROM nginx:alpine <br>
      WORKDIR /usr/share/nginx/html <br>
      COPY ./index.html . <br>
      EXPOSE 80 <br>
      CMD ["nginx", "-g", "daemon off;"] <br>
    </code></li>
  </ul>
</body>

</html>

ullstack-lab10-source/dockerfile

FROM nginx:alpine
WORKDIR /usr/share/nginx/html
COPY ./index.html .
EXPOSE 80
CMD ["nginx", "-g", "daemon off;"]

Zadanie 1B
```

Handstack table coming, table dep

```
metadata:
  name: lab10-deployment
spec:
  replicas: 4
  selector:
```

```
strategy:
  type: RollingUp
  rollingUpdate:
```

```

    metadata:
      labels:

```

```
spec:
  containers:
    - name: lab10-app
      image: student232323/lab10-app:1.0.3
```

```
metadata:
  name: lab10-service
```

```
ports:
  - port: 8080
    targetPort: 80
    nodePort: 30007
selector:
  app: lab10-app
```

```
spec:
  rules:
```

```
paths:
  - pathType: Prefix
    path: "/"
  backend:
    service:
      name: lab10-service
      port:
        number: 8080
```

```
name: Docker CI
```

```
push:
  branches: [ "main" ]
```

```
jobs:
  dockerCI:
    runs-on: ubuntu-latest
    outputs:
      version_number: ${ steps.vars.outputs.version_number }

    steps:
      - name: Check out the repo
        uses: actions/checkout@v4

      - name: Set up QEMU
        uses: docker/setup-qemu-action@v3

      - name: Set up Docker Buildx
        uses: docker/setup-buildx-action@v3

      - name: set-output
        id: vars
        run: |
          version_number=$(sed -n 's/.*App Version: \(.*\)</li>/\1/p' index.html)
          echo "version_number=${version_number}" >> "$GITHUB_OUTPUT"
        shell: bash

      - name: Login to Docker Hub
        uses: docker/login-action@v3
        with:
          username: ${ secrets.DOCKER_HUB_LOGIN }
          password: ${ secrets.DOCKER_HUB_PASSWORD }

      - name: Build and push
        uses: docker/build-push-action@v5
        with:
          context: .
          platforms: linux/amd64,linux/arm64
          push: true
          tags: student232323/lab10-app:${ steps.vars.outputs.version_number }

kubernetesCI:
  needs: dockerCI
  runs-on: ubuntu-latest

  steps:
    - name: Check out the repo
      uses: actions/checkout@v4
      with:
        repository: Ornez/fullstack-lab10-config
        token: ${ secrets.ACTIONS_TOKEN }

    - run: |
        sed -i 's/student232323/lab10-app:./student232323/lab10-app:${ needs.dockerCI.outputs.version_n
```

```
git add -u
git commit -m "update"
git push
```

- ### Zadanie 3A i 3B

1. <https://hub.docker.com/search?q=student252525>

```
FROM alpine:latest

RUN apk update && \
    apk add --no-cache git curl && \
    apk add --no-cache --repository=http://dl-cdn.alpinelinux.org/alpine/edge/community kubectl

CMD ["/bin/sh"]
```

```
apiVersion: batch/v1
```

```
name: stepcd
spec:
  schedule: "*/* * * * *"
  concurrencyPolicy: Forbid
  jobTemplate:
    spec:
      backoffLimit: 0
      template:
        spec:
          restartPolicy: Never
          serviceAccountName: gitops
          containers:
            - name: zad2gitops
              image: student232323/lab10-stepcd
              command: [sh, -e, -c]
              args:
                - git clone https://github.com/Ornez/fullstack-lab10-config.git /tmp/lab10_config && find /tmp
```

```
kuhectl apply -f -c
```

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C:\Studia\3. Programowanie full-stack w chmurze\Sprawozdania\fullstack-spra

```
pod/lab10-deployment-7f56b75779-kd6d4 0/1
pod/lab10-deployment-7f56b75779-15frt 0/1
pod/stepcd-28420874-m172w 1/1
```

[illegible][illegible]

```
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to add new files)
```

```
Tukas@DESKTOP-T5L25UV MINGW64 /c
$ git add
```

```
[main e7afa52] changed version from 1.0.2 to 1.0.3
1 file changed, 1 insertion(+), 1 deletion(-)
0
$ukask@DESKTOP-TSL25UV MINGW64 /c:/StudioA/3. Programowanie full-stack w chmurze/Zadanie obowiazkowe 2/fullstack-lab10-source (main)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 305 bytes | 305.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Ornez/fullstack-lab10-source.git
9d20665..e7afa52 main -> main
$|

$|ukask@DESKTOP-TSL25UV MINGW64 /c:/StudioA/3. Programowanie full-stack w chmurze/Zadanie obowiazkowe 2/fullstack-lab10-source (main)
$|

PS C:\StudioA\3. Programowanie full-stack w chmurze>Zadania\fullstack-sprawozdania\lab10\gitops> Invoke-RESTMethod "http://localhost/" -Headers @{Host:"zad1.lab10.pl"}
{"id":1,"title":"Lab10","body":{"author":"Andrzej Chudy","version":"1.0.3"},"meta":{"width":1000,"height":1000}}

```

Jak widać wersja aplikacji została zmieniona.

```

pod/lab10-deployment-7d664f6674-2w99b    1/1    Running    0    114s
pod/lab10-deployment-7d664f6674-cclwb    1/1    Running    0    114s
pod/lab10-deployment-7d664f6674-hxhjd    1/1    Running    0    114s
pod/lab10-deployment-7d664f6674-phrvv    1/1    Running    0    114s
pod/stepcd-28420880-8jfr8f                0/1    Completed  0    3m59s
pod/stepcd-28420882-179r5e                0/1    Completed  0    3m59s
pod/stepcd-28420884-kffw4                 0/1    Completed  0    119s

```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
service/kubernetess	ClusterIP	10.96.0.1	<none>	443/TCP	69m
service/lab10-service	NodePort	10.104.48.156	<none>	8080:30007/TCP	11m

```

NAME                                READY    UP-TO-DATE    AVAILABLE    AGE
deployment.apps/lab10-deployment    4/4      4              4            11m

```


NAME	DESIRED	CURRENT	READY	AGE
replicaset.apps/lab10-deployment-7d664f6674	4	4	0	114s
replicaset.apps/lab10-deployment-7f96b75779	4	4	0	11m

NAME	SCHEDULE	SUSPEND	ACTIVE	LAST SCHEDULE	AGE
cronjob.batch/stepcd	*/* * * * *	False	0	119s	12m

NAME	COMPLETIONS	DURATION	AGE
job.batch/stepcd-28420880	1/1	8s	3m59s
job.batch/stepcd-28420882	1/1	6s	3m59s
job.batch/stepcd-28420884	1/1	15s	119s

PS C:\Vstidia>3. Programowanie full-stack w chmurze > \sprawozdania\fullstack-sprawozdania\lab10\gitops>

zad2lab10.yml
on: push



The screenshot shows a GitHub Actions workflow run for a repository named 'kubernetesCI'. The workflow consists of two jobs: 'dockerCI' and 'kubernetesCI'. The 'dockerCI' job is shown as completed with a green checkmark and a duration of 22s. The 'kubernetesCI' job is also shown as completed with a green checkmark and a duration of 5s. The workflow is triggered by a commit on the 'main' branch.

Workflow Summary:

- Job: dockerCI (22s)
- Job: kubernetesCI (5s)

Commits on Jan 14, 2024

github-actions committed 4 m

updated app version	5962f1d
github-actions committed 7 hours ago	
added deployment, ingress and service yaml files	9e3b982
Dinesh committed 9 hours ago	