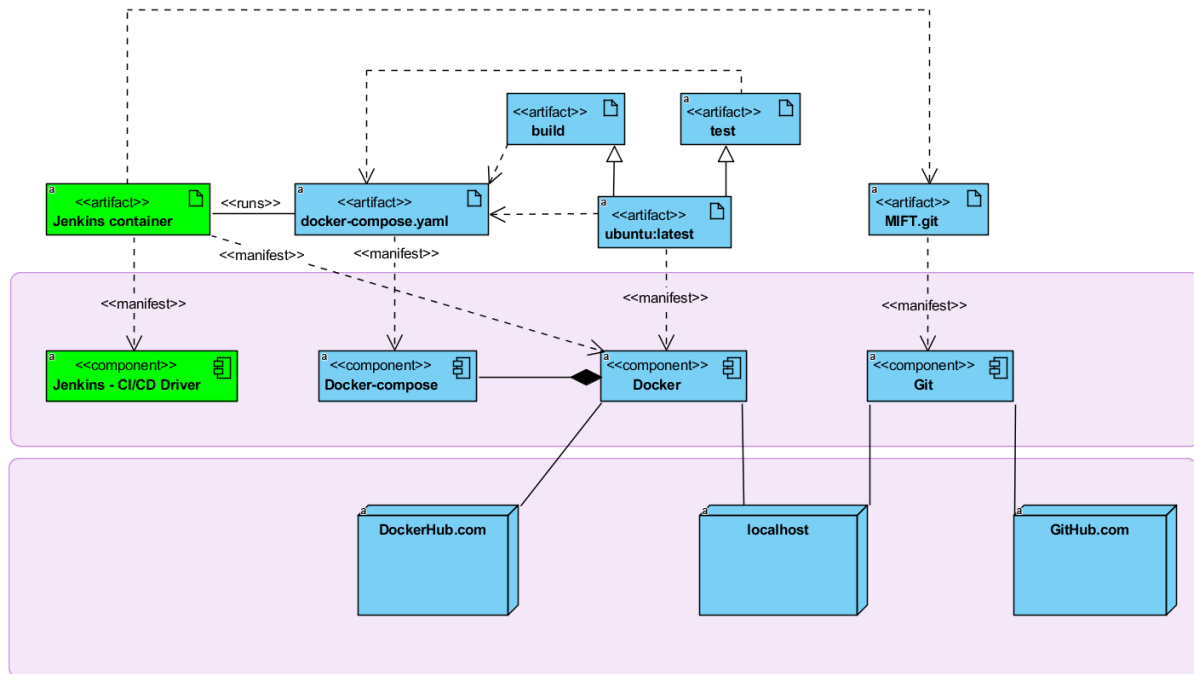


DevOps 5 JS306303

Zad0:

Zapoznałem się z poniższym diagramem:



Zad2: Przeszedłem do instalowania Jenkinsa:

```
Jakub@Komputer: MINGW64 ~/Documents/STUDIAJS/DevOps/MIFT2021/Grupy
303/Lab05 (Grupa08-JS306303_Lab05)
$ docker network create jenkins
7f313d71babbe862ff49b1077b3f533938f72d2364a14fa924a41cc05370607d
```

```
303/Lab05 (Grupa08-JS306303_Lab05)
$ docker run --name jenkins-docker --rm --detach --privileged --network
k jenkins --network-alias docker --env DOCKER_TLS_CERTDIR=/certs --volume
jenkins-docker-certs:/certs/client --volume jenkins-data:/var/jenkins_home -
-publish 3376:3376 docker:dind --storage-driver overlay2
19c42d0310699b89fdc42cd45c12bf13590ea348ca71fa7a44704bf16f1d5ac3
```

Stworzyłem Dockerfile za pomocą touch i edytowałem go za pomocą nano:

```
GNU nano 5.4 Dockerfile
FROM jenkins/jenkins:2.277.1-lts-jdk11
USER root
RUN apt-get update && apt-get install -y apt-transport-https \
    ca-certificates curl gnupg2 \
    software-properties-common
RUN curl -fsSL https://download.docker.com/linux/debian/gpg | apt-key add -
RUN apt-key fingerprint 0EBFCD88
RUN add-apt-repository \
    "deb [arch=amd64] https://download.docker.com/linux/debian \
    $(lsb_release -cs) stable"
RUN apt-get update && apt-get install -y docker-ce-cli
USER jenkins
RUN jenkins-plugin-cli --plugins "blueocean:1.24.5 docker-workflow:1.26"
```

```

303/Lab05 (Grupa08-JS306303_Lab05)
$ docker build -t myjenkins-blueocean:1.1 .
Sending build context to Docker daemon 2.56kB
Step 1/9 : FROM jenkins/jenkins:2.277.1-lts-jdk11
2.277.1-lts-jdk11: Pulling from jenkins/jenkins
0ecb575e629c: Pulling fs layer
d2e29d310005: Pulling fs layer
68447f4e70db: Pulling fs layer
3548dd727fb8: Pulling fs layer
b83371dfc87e: Pulling fs layer
b18b294f74c6: Pulling fs layer
842fc3e5cd8e: Pulling fs layer
d183943c2b10: Pulling fs layer
62b900be1dd1: Pulling fs layer
7f3d6effaebc: Pulling fs layer

```

Uruchomiłem kontenery

```

1  docker run --name jenkins-docker --rm --detach ^
2  --privileged --network jenkins --network-alias docker ^
3  --env DOCKER_TLS_CERTDIR=/certs ^
4  --volume jenkins-docker-certs:/certs/client ^
5  --volume jenkins-data:/var/jenkins_home ^
6  docker:dind
7
8  docker run --name jenkins-blueocean --rm --detach ^
9  --network jenkins --env DOCKER_HOST=tcp://docker:2376 ^
10 --user root ^
11 --env DOCKER_CERT_PATH=/certs/client --env DOCKER_TLS_VERIFY=1 ^
12 --volume jenkins-data:/var/jenkins_home ^
13 --volume jenkins-docker-certs:/certs/client:ro ^
14 --publish 8080:8080 --publish 50000:50000 myjenkins-blueocean:1.1
15
16  pause

```

Następnie należy się zalogować do Jenkinsa, w moim przypadku jest to przez ip zwrócone z komendy docker-machine ip default, ponieważ korzystam z docker toolboxa, więc localhost nie działa.

Musiłem też dodać, by logować się jako root, by móc w późniejszych etapach cokolwiek zrobić.

Instalacja wtyczek

<input checked="" type="checkbox"/> Folders Plugin	<input checked="" type="checkbox"/> OWASP Markup Formatter	<input checked="" type="checkbox"/> Build Timeout	<input checked="" type="checkbox"/> Credentials Binding Plugin	Folders
<input type="checkbox"/> Timestampers	<input type="checkbox"/> Workspace Cleanup	<input type="checkbox"/> Ant	<input type="checkbox"/> Gradle	OWASP Markup Formatter
<input checked="" type="checkbox"/> Pipeline	<input type="checkbox"/> GitHub Branch Source Plugin	<input checked="" type="checkbox"/> Pipeline: GitHub Groovy Libraries	<input type="checkbox"/> Pipeline: Stage View	Build Timeout
<input type="checkbox"/> Git plugin	<input type="checkbox"/> SSH Build Agents	<input type="checkbox"/> Matrix Authorization Strategy	<input type="checkbox"/> PAM Authentication	Credentials Binding
<input type="checkbox"/> LDAP	<input type="checkbox"/> Email Extension	<input type="checkbox"/> Mailer Plugin		

** - zależności wymagane

Stwórz pierwszego administratora

Login:	<input type="text" value="306303"/>
Hasło:	<input type="password" value="....."/>
Powtórz hasło:	<input type="password" value="....."/>
Pełna nazwa:	<input type="text" value="JS306303"/>
Adres e-mail:	<input type="text" value="cz@student.agh.edu.pl"/>

Po czym wrzuciłem Jenkinsa na mojego docker huba

```

$ docker push xtensu/lab07:zad3
The push refers to repository [docker.io/xtensu/lab07]
feac513c9067: Pushing 9.384MB/68.22MB
cdd5a2ae61e9: Pushing 71.81MB/190.1MB
aeb7a5d983fa: Pushed
47189b84d3d1: Pushed
efff46065e93: Pushed
f2b70d0fa82c: Pushing 50.43MB/158.9MB
1b0f52754622: Mounted from jenkins/jenkins
781a4a82dd8d: Mounted from jenkins/jenkins
2b19e8927d12: Mounted from jenkins/jenkins
e0d74c92d90b: Mounted from jenkins/jenkins
0fc1f85308ed: Mounted from jenkins/jenkins
0920ece9e11d: Mounted from jenkins/jenkins
5cb40c97b600: Mounted from jenkins/jenkins
9ece0f31ab3f: Mounted from jenkins/jenkins
dced136831e2: Mounted from jenkins/jenkins
50c172b1f6cb: Mounted from jenkins/jenkins
fc340cdaad0c: Mounted from jenkins/jenkins
172cb7ad177f: Mounted from jenkins/jenkins
4fa6c90606ff: Mounted from jenkins/jenkins
912e23b84980: Mounted from jenkins/jenkins
de5af37ebe4a: Mounted from jenkins/jenkins
7f03bfe4d6dc: Mounted from jenkins/jenkins

```

Z poziomu Jenkinsa połączyłem się z repo z lab04 i przystąpiłem do uruchomienia docker compose

Lab05

General
Repozytorium kodu
Wyzwalacze zadania
Środowisko do uruchomienia
Budowanie
Akcje po zadaniu

Repository URL
https://github.com/InzynieriaOprogramowaniaAGH/MIFT2021.git

Credentials
- none -
Add

Zaawansowane...
Add Repository

Branches to build
Branch Specifier (blank for 'any')
*/Grupa08-JS306303_Lab04
Add Branch

Budowanie

Uruchom powłokę
Command
whoami
cd Grupy/Grupa08/JS306303/Lab04
pwd
curl -L "https://github.com/docker/compose/releases/download/1.29.1/docker-compose-\$(uname -s)-\$(uname -m)" -o /usr/local/bin/docker-compose
chmod +x /usr/local/bin/docker-compose
ln -s /usr/local/bin/docker-compose /usr/bin/docker-compose
See the list of available environment variables
Zaawansowane...

Docker Compose Build Step
Use Custom Docker Compose File
Docker Compose File
Grupy/Grupa08/JS306303/Lab04/docker-compose.yml
Docker Compose Command
Start all services

Wynik:

```
Started by user unknown or anonymous
Running as SYSTEM
Building in workspace /var/jenkins_home/workspace/Lab05
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/jenkins_home/workspace/Lab05/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/InzynieriaOprogramowaniaAGH/MIFT2021.git # timeout=10
Fetching upstream changes from https://github.com/InzynieriaOprogramowaniaAGH/MIFT2021.git
> git --version # timeout=10
> git --version # 'git version 2.20.1'
> git fetch --tags --force --progress -- https://github.com/InzynieriaOprogramowaniaAGH/MIFT2021.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/Grupa08-JS306303_Lab04^{commit} # timeout=10
Checking out Revision 67a1f83a1b9449d94161e400140e4c13e3d45efd (refs/remotes/origin/Grupa08-JS306303_Lab04)
> git config core.sparsecheckout # timeout=10
> git checkout -f 67a1f83a1b9449d94161e400140e4c13e3d45efd # timeout=10
Commit message: "Merge branch 'Grupa08-JS306303_Lab04' of github.com:InzynieriaOprogramowaniaAGH/MIFT2021 into Grupa08-JS306303_Lab04"
> git rev-list --no-walk 67a1f83a1b9449d94161e400140e4c13e3d45efd # timeout=10
[Lab05] $ /bin/sh -xe /tmp/jenkins868406343765255311.sh
+ whoami
root
+ cd Grupy/Grupa08/JS306303/Lab04
+ pwd
/var/jenkins_home/workspace/Lab05/Grupy/Grupa08/JS306303/Lab04
+ uname -s
+ uname -m
+ curl -L https://github.com/docker/compose/releases/download/1.29.1/docker-compose-linux-x86_64 -o /usr/local/bin/docker-compose
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
0         0     0    0     0      0     0  --:--:-- --:--:-- --:--:--    0
100    633   100    633     0    5104    0  --:--:-- --:--:-- --:--:--  5104

38 12.1M   38 4843k    0     0 5163k    0  0:00:02 --:--:--  0:00:02 5163k
100 12.1M  100 12.1M    0     0 6788k    0  0:00:01  0:00:01 --:--:-- 8505k
+ chmod +x /usr/local/bin/docker-compose
+ ln -s /usr/local/bin/docker-compose /usr/bin/docker-compose
$ docker-compose -f /var/jenkins_home/workspace/Lab05/Grupy/Grupa08/JS306303/Lab04/docker-compose.yml up -d
Creating network "lab04_default" with the default driver
Building build-agent
Sending build context to Docker daemon  5.632kB
```

```
Step 1/10 : FROM node:14.16.0-buster
14.16.0-buster: Pulling from library/node
004f1eed87df: Pulling fs layer
5d6f1e8117db: Pulling fs layer
48c2faf66abe: Pulling fs layer
234b70d0479d: Pulling fs layer
6fa07a00e2f0: Pulling fs layer
879ffd9f5570: Pulling fs layer
1b1081976662: Pulling fs layer
124761c792fe: Pulling fs layer
cff21b348f42: Pulling fs layer
234b70d0479d: Waiting
6fa07a00e2f0: Waiting
879ffd9f5570: Waiting
1b1081976662: Waiting
124761c792fe: Waiting
cff21b348f42: Waiting
5d6f1e8117db: Verifying Checksum
5d6f1e8117db: Download complete
48c2faf66abe: Verifying Checksum
48c2faf66abe: Download complete
234b70d0479d: Verifying Checksum
234b70d0479d: Download complete
004f1eed87df: Verifying Checksum
004f1eed87df: Download complete
879ffd9f5570: Verifying Checksum
879ffd9f5570: Download complete
124761c792fe: Verifying Checksum
124761c792fe: Download complete
cff21b348f42: Verifying Checksum
cff21b348f42: Download complete
004f1eed87df: Pull complete
5d6f1e8117db: Pull complete
48c2faf66abe: Pull complete
1b1081976662: Verifying Checksum
1b1081976662: Download complete
234b70d0479d: Pull complete
6fa07a00e2f0: Verifying Checksum
6fa07a00e2f0: Download complete
6fa07a00e2f0: Pull complete
879ffd9f5570: Pull complete
1b1081976662: Pull complete
124761c792fe: Pull complete
cff21b348f42: Pull complete
Digest: sha256:e09a63130ce4ec4b20af5bd07e2029a0ef26f64f1f496f0854f5b1ff1aa69575
Status: Downloaded newer image for node:14.16.0-buster
```

[illegible]

```
> deltachat-node@1.51.1 build:bindings:ts /deltachat-desktop/node_modules/deltachat-node
> tsc

> core-js@2.6.9 postinstall /deltachat-desktop/node_modules/core-js
> node scripts/postinstall || echo "ignore"

[96mThank you for using core-js ([94m https://github.com/zloirock/core-js [96m) for polyfilling JavaScript standard library![0m

[96mThe project needs your help! Please consider supporting of core-js on Open Collective or Patreon: [0m
[96m>[94m https://opencollective.com/core-js [0m
[96m>[94m https://www.patreon.com/zloirock [0m

[96mAlso, the author of core-js ([94m https://github.com/zloirock [96m) is looking for a good job ~)[0m

> core-js@3.8.0 postinstall /deltachat-desktop/node_modules/global-agent/node_modules/core-js
> node -e "try(require('./postinstall'))catch(e){}"

[96mThank you for using core-js ([94m https://github.com/zloirock/core-js [96m) for polyfilling JavaScript standard library![0m

[96mThe project needs your help! Please consider supporting of core-js on Open Collective or Patreon: [0m
[96m>[94m https://opencollective.com/core-js [0m
[96m>[94m https://www.patreon.com/zloirock [0m

[96mAlso, the author of core-js ([94m https://github.com/zloirock [96m) is looking for a good job ~)[0m

> electron@11.1.0 postinstall /deltachat-desktop/node_modules/electron
> node install.js

> esbuild@0.8.33 postinstall /deltachat-desktop/node_modules/esbuild
> node install.js

> spectron@12.0.0 postinstall /deltachat-desktop/node_modules/spectron
> node lib/zip-fix.js

[91mnpmm[0m[91m WARN lifecycle deltachat-desktop@1.16.0-alpha.0~install: cannot run in wd deltachat-desktop@1.16.0-alpha.0 npm run install:submodules (wd=/deltachat-desktop)
[0m[91mnpmm[0m[91m [0m[91mWARN[0m[91m The package tempy is included as both a dev and production dependency.
[0m[91mnpmm[0m[91m [0m[91mWARN[0m[91m [0m[91moptional[0m[91m SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.9 (node_modules/fsevents):
[0m[91mnpmm[0m[91m [0m[91mWARN[0m[91m [0m[91mnotsup[0m[91m SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.9: wanted {"os":"darwin","arch":"any"} (current:
{"os":"linux","arch":"x64"})
[0m[91mnpmm[0m[91m [0m[91mWARN[0m[91m [0m[91moptional[0m[91m SKIPPING OPTIONAL DEPENDENCY: fsevents@2.1.3 (node_modules/chokidar/node_modules/fsevents):
[0m[91mnpmm[0m[91m [0m[91mWARN[0m[91m [0m[91mnotsup[0m[91m SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.1.3: wanted {"os":"darwin","arch":"any"} (current:
{"os":"linux","arch":"x64"})
[0m[91m
[0madded 1709 packages from 854 contributors and audited 1780 packages in 84.559s

133 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

Removing intermediate container 0b042169fb8d
--> eadffe69d727
Step 10/10 : RUN npm run build
--> Running in 1f73ba168bae

> deltachat-desktop@1.16.0-alpha.0 build /deltachat-desktop
> npm run build:shared && npm run build:backend && npm run build:frontend

> deltachat-desktop@1.16.0-alpha.0 build:shared /deltachat-desktop
> npm run build:shared:translations && npm run build:shared:version

> deltachat-desktop@1.16.0-alpha.0 build:shared:translations /deltachat-desktop
> node ./bin/build-shared-convert-translations.js ./_locales

+ Converting translations from xml to json...
+ converted 50 files in 489 ms

> deltachat-desktop@1.16.0-alpha.0 build:shared:version /deltachat-desktop
> node ./bin/build-shared-version-info.js

refs/heads/master master

> deltachat-desktop@1.16.0-alpha.0 build:backend /deltachat-desktop
> tsc --build src/main

> deltachat-desktop@1.16.0-alpha.0 build:frontend /deltachat-desktop
> npm run build:frontend:ts && npm run build:frontend:themes && npm run build:frontend:static && npm run build:frontend:source-map-support && npm run build:frontend:scss

> deltachat-desktop@1.16.0-alpha.0 build:frontend:ts /deltachat-desktop
> node ./bin/build-frontend-ts.js

- Compile esbuild ...
- Executing "npx esbuild src/renderer/main.tsx --bundle --sourcemap --outfile=html-dist/bundle.js --define:process.env.NODE_ENV=\"development\""
- build completed
```



```

> deltachat-desktop@1.16.0-alpha.0 build:frontend:themes /deltachat-desktop
> sass themes/light.scss static/fallback-theme.css --style=compressed --embed-source-map && node ./bin/build-frontend-themes.js

> deltachat-desktop@1.16.0-alpha.0 build:frontend:static /deltachat-desktop
> node ./bin/copy.js ./static ./html-dist

+ copied all source files to "./html-dist"

> deltachat-desktop@1.16.0-alpha.0 build:frontend:source-map-support /deltachat-desktop
> node ./bin/build-frontend-source_map_support.js

> deltachat-desktop@1.16.0-alpha.0 build:frontend:scss /deltachat-desktop
> sass ./scss/manifest.scss ./html-dist/main.css --embed-source-map --style=compressed

Removing intermediate container 1f73ba165bae
--> 1117e92c8db6
Successfully built 1117e92c8db6
Successfully tagged zad3:latest
Image for service build-agent was built because it did not already exist. To rebuild this image you must use `docker-compose build` or `docker-compose up --build`.
Building test-agent
Sending build context to Docker daemon 5.632KB

Step 1/10 : FROM node:14.16.0-buster
--> 61560e1cedb8
Step 2/10 : RUN apt-get update
--> Using cache
--> 50ea05eb7616
Step 3/10 : RUN apt-get install -y --no-install-recommends git gcc g++ make python wget ca-certificates
--> Using cache
--> 639c70f1c1e68
Step 4/10 : RUN mkdir /usr/local/share/ca-certificates/cacert.org
--> Using cache
--> 657d781972a6
Step 5/10 : RUN wget -P /usr/local/share/ca-certificates/cacert.org http://www.cacert.org/certs/root.crt http://www.cacert.org/certs/class3.crt
--> Using cache
--> 49a7c8073f79
Step 6/10 : RUN update-ca-certificates
--> Using cache
--> 5fcb91985eb1
Step 7/10 : RUN git clone https://github.com/deltachat/deltachat-desktop.git
--> Using cache
--> f103b63b7c24
Step 8/10 : WORKDIR ./deltachat-desktop
--> Using cache
--> 1117e92c8db6
Successfully built 1117e92c8db6
Successfully tagged zad4:latest
Image for service test-agent was built because it did not already exist. To rebuild this image you must use `docker-compose build` or `docker-compose up --build`.
Creating build-agent-deltachat ...
Creating build-agent-deltachat ... done
Creating test-agent-deltachat ...
Creating test-agent-deltachat ... done
Build step 'Docker Compose Build Step' changed build result to SUCCESS
Finished: SUCCESS

```