

# Sprawozdanie z laboratorium

## Programowanie w Chmurze Obliczeniowej

### Patryk Kaźmierak IIST 7.3/5

#### Zadanie 3 - polecenia

a. zbudowania opracowanego obrazu kontenera

DOCKER\_BUILDKIT=1 docker build -t projectphp .

```
student@PwCh0VB:~/Desktop/ChmuryPHP$ docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
projectphp	latest	dd0ff4aa94f7	16 minutes ago	410MB
<none>	<none>	aef2d160049b	4 hours ago	410MB
<none>	<none>	8f145c2ebbae	4 hours ago	473MB
phpproject	latest	22475132ce77	4 hours ago	410MB
php	7.4-apache	b42da9753d2c	2 days ago	469MB
php	7.4-cli	8e8e75f388d4	2 days ago	473MB
website	latest	57a2225b9eaf	2 days ago	218MB
mywebsite	latest	6677acb76168	2 days ago	218MB
websitetag	latest	6677acb76168	2 days ago	218MB
example1	latest	7b532aa7480b	12 days ago	1.24MB
<none>	<none>	469b86ae6250	12 days ago	72.8MB
busybox	latest	cabb9f684f8b	3 weeks ago	1.24MB
ubuntu	latest	ba6accedd29	5 weeks ago	72.8MB
hello-world	latest	feb5d9fea6a5	8 weeks ago	13.3kB
php	7.2-apache	c61d277263e1	11 months ago	410MB
python	3.5-slim	6ffde5f0e2d0	14 months ago	110MB

```
student@PwCh0VB:~/Desktop/ChmuryPHP$
```

b. uruchomienia kontenera na podstawie zbudowanego obrazu

docker run -d -p 80:80 --name phprunning projectphp

```
student@PwCh0VB:~/Desktop/ChmuryPHP$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
c0d8486a1d7f	projectphp	"docker-php-entrypoi..."	15 minutes ago	Up 14 minutes	0.0.0.0:80->80/tcp, :::80->80/tcp	phprunning

```
student@PwCh0VB:~/Desktop/ChmuryPHP$
```

c. sposobu uzyskania informacji, które wygenerował serwer w trakcie uruchamiania kontenera

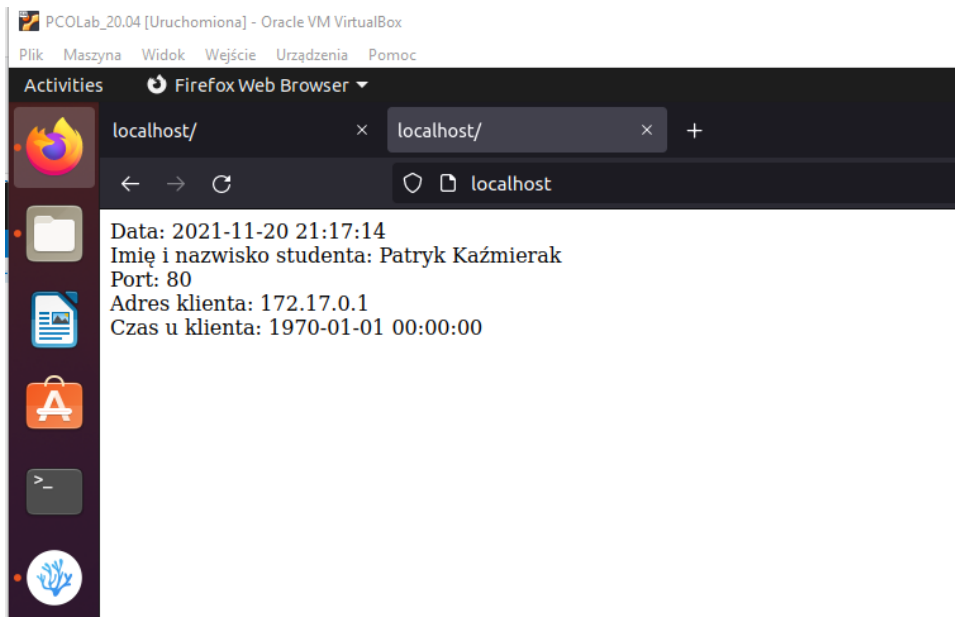
Wchodzimy do kontenera

docker exec -it phprunning bash

```
student@PwCh0VB:~/Desktop/ChmuryPHP$ docker exec -it phprunning bash
```

```
root@c0d8486a1d7f:/var/www/html#
```

Wchodzimy na przeglądarkę i wywołujemy skrypt w celu utworzenia logów



W kontenerze poleceniem `ls -l` listujemy zawartość katalogu `/var/www/html`

Odnajdujemy plik z logami i wchodzimy w niego

`cat log_20.11.2021.log`

```
root@c0d8486a1d7f:/var/www/html# ls -l
total 8
-rw-rw-r-- 1 root      root      1469 Nov 20 10:01 index.php
-rw-r--r-- 1 www-data www-data   75 Nov 20 21:17 log_20.11.2021.log
root@c0d8486a1d7f:/var/www/html# cat log_20.11.2021.log
Data uruchomienia: 2021-11-20 21:17:14, Imię: Patryk Kaźmierak, Port: 80
root@c0d8486a1d7f:/var/www/html#
```

d. sprawdzenia, ile warstw posiada zbudowany obraz

`docker image inspect projectphp | jq ".[].RootFS"`

```
student@PwCh0VB:~/Desktop/ChmuryPHP$ docker image inspect projectphp | jq ".[].RootFS"
{
  "Type": "layers",
  "Layers": [
    "sha256:87c8a1d8f54f3aa4e05569e8919397b65056aa71cdf48b7f061432c98475eee9",
    "sha256:ddcd8d2fcf7eadeef5a1e569539568bd276784e3535cb942a51a19c538090e1e",
    "sha256:e45a78df7536d9ab717733086f8026d40bb78c2ee532cff284308424d0018828",
    "sha256:02eef72b445f93168347adc16dece8be0d697c462b4e3c293480d08e599127a8",
    "sha256:bc0429138e0dd22d175170fed62fda8fc76f1f2e36641b075a1ea0bbf1882e6e",
    "sha256:d666585087a124c44f2c108e27410db31325a1c5076cea26a1bf67affe4cfd79",
    "sha256:0ff9183bd0993a682d701d9253051790f1e5fe21e1a899872b83fc579ba4ead5",
    "sha256:914a1eddd57a1d908536132066887fa07c1917d4ba636d689677c8a678af8967",
    "sha256:e1cd0107ea852c13e540c79461b945af69211233c8fc6d489ec5005503d74f29",
    "sha256:ce60a0c97d4a1a244ae78d16ca874d82dbf98f437ac8c3cb2f86d4e6a9c81e30",
    "sha256:9a60d912a14f96cfff1b6a7b1ef4c8b0b51a6ee12a4785a61aeb9e100386ddcd",
    "sha256:6ec4d4ce53cc16cb2c806d8a7ff92fa660c8d1c61e06d129264b001fdcfca2d0",
    "sha256:cc45506c444753c370f98084471e834058d4e91c31b37c7eac966ba8a3185446",
    "sha256:5dc98019746790eed1758d7135e1ca091171e1b8c9fdb6fedbfd836893ba5e9",
    "sha256:ecada6ebca3c546bea59bf3d1f8a327eb69d2db9e16c2f0c22a2302457de8ccd"
  ]
}
student@PwCh0VB:~/Desktop/ChmuryPHP$
```

## Zadanie 4

Jak przenieść stworzony obraz na swoje konto na DockerHub?

Aby przenieść obraz na swoje konto na DockerHub należy:

- Utworzyć repozytorium na DockerHub
- Nazwać obraz tak jak repozytorium
- Dokonać commita istniejącego kontenera do repozytorium
- Wykonać push (przesłanie obrazu do repozytorium)

```
student@PwCh0VB:~/Desktop/ChmuryPHP$ docker container ls
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
c0d8486ald7f   projectphp    "docker-php-entrypoi..." About an hour ago Up About an hour   0.0.0.0:80->80/tcp, :::80->80/tcp
phprunning
student@PwCh0VB:~/Desktop/ChmuryPHP$ docker commit c0d8486ald7f patrykkazmierak/projektchmury
sha256:198f70145ac6c891476b03c5f7b2d90fade919344689b84e97e01a4aelfc2aca
student@PwCh0VB:~/Desktop/ChmuryPHP$ docker images
REPOSITORY          TAG         IMAGE ID      CREATED        SIZE
patrykkazmierak/projektchmury   latest     198f70145ac6  24 seconds ago  410MB
projectphp              latest     dd0ff4aa94f7  About an hour ago  410MB
patryk/kazmierak/projektchmury   1         dd0ff4aa94f7  About an hour ago  410MB
patryk/kazmierak/projektchmury   latest     dd0ff4aa94f7  About an hour ago  410MB
<none>                  <none>     aef2d160049b  5 hours ago     410MB
<none>                  <none>     8f145c2ebbae  6 hours ago     473MB
phppproject            latest     22475132ce77  6 hours ago     410MB
php                    7.4-apache b42da9753d2c  2 days ago     469MB
php                    7.4-cli    8e8e75f388d4  2 days ago     473MB
website                latest     57a2225b9eaf  2 days ago     218MB
mywebsite              latest     6677acb76168  2 days ago     218MB
websitetag             latest     6677acb76168  2 days ago     218MB
example1               latest     7b532aa7480b  12 days ago     1.24MB
<none>                 <none>     469b86ae6250  12 days ago     72.8MB
busybox                latest     cabb9f684f8b  3 weeks ago     1.24MB
ubuntu                 latest     ba6acccedd29  5 weeks ago     72.8MB
hello-world            latest     feb5d9fea6a5  8 weeks ago     13.3kB
php                    7.2-apache c61d277263e1  11 months ago  410MB
python                 3.5-slim   6ffde5f0e2d0  14 months ago  110MB
student@PwCh0VB:~/Desktop/ChmuryPHP$ docker push patrykkazmierak/projektchmury
Using default tag: latest
The push refers to repository [docker.io/patrykkazmierak/projektchmury]
765760a48d19: Pushed
ecada6ebca3c: Pushed
5dc980197467: Pushed
cc45506c4447: Pushed
6ec4d4ce53cc: Pushed
9a60d912a14f: Pushed
ce60a0c97d4a: Pushed
e1cd0107ea85: Pushed
914a1edd57a: Pushed
0ff9183dd099: Pushed
d666585087a1: Pushed
bc0429138e0d: Pushed
02eef72b445f: Pushed
e45a78df7536: Pushed
ddcd8d2fcf7e: Pushed
87c8a1d8f54f: Pushed
latest: digest: sha256:da098747181a65b4416b23e1863a375ba1507d623ee388cdd9eb12d8b576ff92 size: 3656
student@PwCh0VB:~/Desktop/ChmuryPHP$
```