

InzynieriaOprogramowaniaAGH /
MDO2023_INO

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[MDO2023_INO](#) / [INO](#) / [GCL2](#) / [KP406287](#) / [lab01](#) / [Sprawozdanie.md](#)

qamilciaq1 Update Sprawozdanie.md

last year



130 lines (66 loc) · 5.76 KB

Preview

Code

Blame

Raw



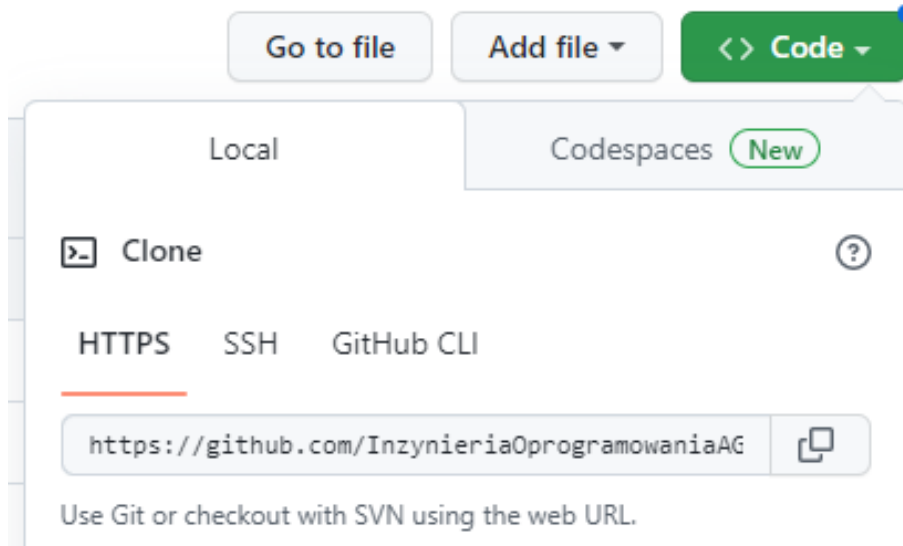
Część 1 - Git

- Początkowo Git i obsługa kluczy SSH zostały zainstalowane .

```
kamila_partyka@Lenovo:~$ git --version  
git version 2.34.1
```

```
kamila_partyka@Lenovo:~$ sudo apt install git  
[sudo] password for kamila_partyka:  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
git is already the newest version (1:2.34.1-1ubuntu1.8).  
0 upgraded, 0 newly installed, 0 to remove and 31 not upgraded.
```

- Następnie sklonowano repozytorium za pomocą HTTPS.



```
kamila_partyka@Lenovo:~$ git clone https://github.com/InzynieriaOprogramowaniaAGH/MDO2023_INO.git
Cloning into 'MDO2023_INO'...
remote: Enumerating objects: 1039, done.
remote: Counting objects: 100% (284/284), done.
remote: Compressing objects: 100% (217/217), done.
remote: Total 1039 (delta 40), reused 231 (delta 33), pack-reused 755
Receiving objects: 100% (1039/1039), 5.52 MiB | 6.64 MiB/s, done.
Resolving deltas: 100% (112/112), done.
```

- Wygenerowano nowy klucz SSH oraz klucz SSH zabezpieczony hasłem przy pomocy poleceń:

```
$ ssh-keygen -t ed25519 -f kluczzyk.id
```

```
$ ssh-keygen -t ed25519 -C kamila.partyka01@gmail.com (niestety nie mam skрина z momentu wpisywania poleceń).
```

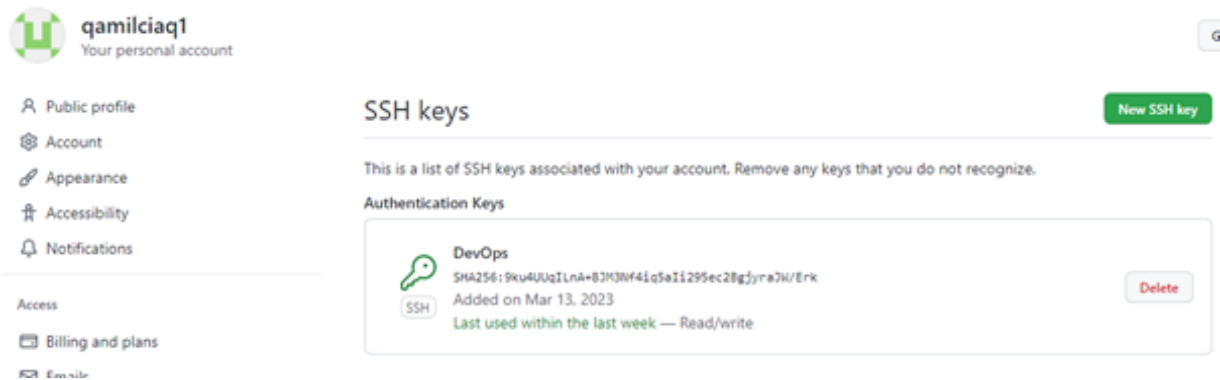
```
GNU nano 6.2                                     kluczzyk.id
-----BEGIN OPENSSH PRIVATE KEY-----
b3BlbnNzaC1rZXktdjEAAAABG5vbmUAAAABbm9uZQAAAAAAAAABAAAAMwAAAAAtzc2gtZW
QyNTUxOQAAACDKd4rdPBp8PBVUZiLeVo0ZFVbjIXjjD0Sh33z6genVegAAAJiG7NATHuzQ
EwAAAAAtzc2gtZWQyNTUxOQAAACDKd4rdPBp8PBVUZiLeVo0ZFVbjIXjjD0Sh33z6genVeg
AAAEctwQ7o745u0hi70QPEKCLVIapZc1BbGQczhV/y8PXLnsp3it08Gnw8FVRmIt5WjRl9
VuMhe0MPRKHffPqB6dV6AAAFWthbWlsYV9wYXJ0eWthQExlbm92bm==
-----END OPENSSH PRIVATE KEY-----
```

```
GNU nano 6.2                                     key2
-----BEGIN OPENSSH PRIVATE KEY-----
b3BlbnNzaC1rZXktdjEAAAABG5vbmUAAAABbm9uZQAAAAAAAAABAAAAMwAAAAAtzc2gtZW
QyNTUxOQAAACBu1W7Ji3yGpHD+RZmCa+R7h0U/wxLDC7Ww0AvqeX3WqAAAAKBbuEJgW7hC
YAAAAAtzc2gtZWQyNTUxOQAAACBu1W7Ji3yGpHD+RZmCa+R7h0U/wxLDC7Ww0AvqeX3WqA
AAEDAMVM5NsC6L2/o4E7hoXGxxQ3i4JqAG9ngxb3nkVAew7VbSmLfIakcP5FmYJr5HuE
5T/DEsMLtbA4C+p5fdaoAAAAGmthbWlsYS5wYXJ0eWthMDFAZ21haWwY29tAQID
-----END OPENSSH PRIVATE KEY-----
```

moje wygenerowane klucze:

```
kamila_partyka@Lenovo:~$ cd workspace
kamila_partyka@Lenovo:~/workspace$ ls
GCL1  GCL1.pub  MDO2023_INO  key2  key2.pub  kluczzyk.id  kluczzyk.id.pub
```

- Następnie skopiowano i dodano klucz publiczny do konta na githubie .



- Sprawdzono połączenie i sklonowano repozytorium z wykorzystaniem protokołu SSH.

```
kamila_partyka@Lenovo:~/workspace/MDO2023_INO$ ssh -T git@github.com
Hi qamilciaq1! You've successfully authenticated, but GitHub does not provide shell access.
kamila_partyka@Lenovo:~/workspace/MDO2023_INO$ git clone git@github.com:InzynieriaOprogramowaniaAGH/MDO2023_INO.git
Cloning into 'MDO2023_INO'...
remote: Enumerating objects: 1013, done.
remote: Counting objects: 100% (258/258), done.
remote: Compressing objects: 100% (192/192), done.
remote: Total 1013 (delta 40), reused 205 (delta 33), pack-reused 755
Receiving objects: 100% (1013/1013), 5.01 MiB | 2.39 MiB/s, done.
Resolving deltas: 100% (112/112), done.
```

- Przełączono się na gałąź main, a następnie gałąź swojej grupy – w moim przypadku jest to grupa GCL2.

```
kamila_partyka@Lenovo:~/workspace/MDO2023_INO$ cd MDO2023_INO/
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/MDO2023_INO$ ls
INO ITE README.md READMEs
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/MDO2023_INO$ git branch
* main
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/MDO2023_INO$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/MDO2023_INO$ git checkout GCL2
Branch 'GCL2' set up to track remote branch 'GCL2' from 'origin'.
Switched to a new branch 'GCL2'
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/MDO2023_INO$ git branch
* GCL2
main
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/MDO2023_INO$
```

- Utworzona gałąź o nazwie KP406287 i przełączono się na nią.

```
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/MDO2023_INO$ git checkout -b KP406287
Switched to a new branch 'KP406287'
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/MDO2023_INO$ git branch
GCL2
* KP406287
main
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/MDO2023_INO$
```

- W katalogu właściwym dla grupy utworzono nowy katalog o nazwie KP406287 a w nim katalog lab01.

```
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/MDO2023_INO$ mkdir KP406287
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/MDO2023_INO$ cd KP406287/
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/MDO2023_INO/KP406287$ ls
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/MDO2023_INO/KP406287$ mkdir lab01
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/MDO2023_INO/KP406287$ ls
lab01
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/MDO2023_INO/KP406287$ git branch
GCL2
* KP406287
main
```

- Pracę nad Git Hookiem rozpoczęto od stworzenia nowego pliku prepare-commit-msg i zedytowaniem go.

```
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/.git/hooks$ ls
applypatch-msg.sample      pre-applypatch.sample      pre-rebase.sample          push-to-update.sample
commit-msg.sample          pre-commit.sample          pre-receive.sample
fsmonitor-watchman.sample  pre-merge-commit.sample    prepare-commit-msg
post-update.sample         pre-push.sample            prepare-commit-msg.sample
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/.git/hooks$ nano prepare-commit-msg
```

- Napisanie Git Hook'a, weryfikującego, że każdy commit message zaczyna się od moich inicjałów oraz numeru indeksu, czyli KP406287 oraz skopiowanie go do katalogu KP406287, który odpowiada nazwie mojej gałęzi.

```
GNU nano 6.2                                prepare-commit-msg
#!/bin/sh

COMMIT_MESSAGE=$(cat $1)
REQUIRED_MESSAGE='KP406287'

if echo "$COMMIT_MESSAGE" | grep "^$REQUIRED_MESSAGE";
then
    echo "correct\n"
    exit 0
fi
echo "wrong commit message, required $REQUIRED_MESSAGE\n"
exit 1
```

```
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/.git/hooks$ cp prepare-commit-msg /home/kamila_partyka/workspace/MDO2023_INO/INO/GCL2/KP406287
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/.git/hooks$
```

rezultat:

```
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287$ ls
lab01  prepare-commit-msg
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287$
```

- Przetestowano poprawność działania Git-Hooka – działa poprawnie.


```
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287$ git add .
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287$ git commit -m 'KP406287_sprawko'
KP406287_sprawko
correct

[KP406287 7b0bcea] KP406287_sprawko
1 file changed, 6 insertions(+)
create mode 100644 INO/GCL2/KP406287/lab01/test.txt
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287$ cd lab01/
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287/lab01$ ls
prepare-commit-msg test.txt
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287/lab01$ nano test.txt
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287/lab01$ cd ..
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287$ git add .
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287$ git commit -m 'KeP406287_sprawko'
wrong commit message, required KP406287
```

- Wysłano zmiany do zdalnego źródła

```
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287/lab01$ git status
On branch KP406287
Your branch is ahead of 'origin/KP406287' by 16 commits.
(use "git push" to publish your local commits)

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   Sprawozdanie.md
    deleted:    prepare-commit-msg
    new file:   screenshots/Obraz1.png
    new file:   screenshots/Obraz10.jpg
    new file:   screenshots/Obraz11.jpg
    new file:   screenshots/Obraz12.jpg
    new file:   screenshots/Obraz13.png
    new file:   screenshots/Obraz14.png
    new file:   screenshots/Obraz15.png
    new file:   screenshots/Obraz16.png
    new file:   screenshots/Obraz17.jpg
    new file:   screenshots/Obraz2.png
    new file:   screenshots/Obraz3.png
    new file:   screenshots/Obraz4.png
    new file:   screenshots/Obraz5.png
    new file:   screenshots/Obraz6.png
    new file:   screenshots/Obraz7.png
    new file:   screenshots/Obraz8.png
    new file:   screenshots/Obraz9.jpg
    modified:   test.txt
```

Część 2 - Docker

- Instalacja dockera oraz sprawdzenie jego wersji.

```
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287$ docker --version
Docker version 20.10.21, build 20.10.21-0ubuntu1~22.04.2
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287$ █
```

- Założenie konta na Docker Hub i zapoznanie się z obrazami.

**qamilciaq1**[Edit profile](#)

Community User



Joined March 17, 2023

- Pobranie hello-world, busybox, ubuntu lub fedory, mysql za pomocą komendy `sudo docker pull nazwa_obrazu`, wylistowanie obrazów.

```
kamila_partyka@Lenovo:~$ sudo docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
busybox       latest   7cfbbec8963d   41 hours ago   4.86MB
fedora        latest   e4c5c8cc5d55   4 days ago    184MB
mysql         latest   4073e6a6f542   9 days ago    530MB
ubuntu        latest   08d22c0ceb15   10 days ago   77.8MB
alpine/git    latest   22d84a66cda4   3 months ago   43.6MB
hello-world   latest   feb5d9fea6a5   18 months ago 13.3kB
```

- Uruchomienie busybox.

```
kamila_partyka@Lenovo:~$ sudo docker run busybox
kamila_partyka@Lenovo:~$ sudo docker run -it busybox
/ #
/ # exit
```

- Interaktywne podłączenie się do busyboxa oraz jego wersja.

```
kamila_partyka@Lenovo:~$ sudo docker run --tty --interactive busybox
/ #
/ # uname - a
BusyBox v1.36.0 (2023-03-03 23:15:03 UTC) multi-call binary.
```

- Uruchomienie Ubuntu oraz sprawdzenie PID1 i procesów dockera.

```
kamila_partyka@Lenovo:~$ sudo docker run -it ubuntu
root@ceb253dbdc30:/# ps -p1
  PID TTY          TIME CMD
   1 pts/0      00:00:00 bash
root@ceb253dbdc30:/#
```

- Aktualizacja pakietów.

```
kamila_partyka@Lenovo:~$ sudo docker run -it ubuntu
root@ceb253dbdc30:/# ps -p1
  PID TTY          TIME CMD
    1 pts/0    00:00:00 bash
root@ceb253dbdc30:/# apt update
Get:1 http://archive.ubuntu.com/ubuntu jammy InRelease [270 kB]
Get:2 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [107 kB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [23.2 kB]
Get:6 http://archive.ubuntu.com/ubuntu jammy/main amd64 Packages [1792 kB]
Get:7 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [900 kB]
Get:8 http://archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [17.5 MB]
Get:9 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [829 kB]
Get:10 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [868 kB]
Get:11 http://archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [266 kB]
Get:12 http://archive.ubuntu.com/ubuntu jammy/restricted amd64 Packages [164 kB]
Get:13 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1138 kB]
Get:14 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [28.6 kB]
Get:15 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1199 kB]
Get:16 http://archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [885 kB]
Get:17 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [22.4 kB]
Get:18 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [49.0 kB]
Fetched 26.2 MB in 18s (1449 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
root@ceb253dbdc30:/#
```

- Stworzenie pliku Dockerfile – edytowanie go, FROM służy do wskazania obrazu, RUN uruchamia potrzebne polecenia

```
GNU nano 6.2 Dockerfile
FROM ubuntu

RUN apt-get update && \
    apt-get upgrade -y && \
    apt-get install -y git
RUN git clone https://github.com/InzynieriaOprogramowaniaAGH/MDO2023_INO.git
```

- Zbudowanie poleceniem `sudo docker build`.


```
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287/lab01$ nano
Dockerfile
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287/lab01$ sudo
docker build .
[+] Building 145.9s (7/7) FINISHED
=> [internal] load build definition from Dockerfile 0.1s
=> => transferring dockerfile: 214B 0.0s
=> [internal] load .dockerignore 0.1s
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/ubuntu:latest 0.0s
=> CACHED [1/3] FROM docker.io/library/ubuntu 0.0s
=> [2/3] RUN apt-get update && apt-get upgrade -y && apt- 131.7s
=> [3/3] RUN git clone https://github.com/InzynieriaOprogramowania 12.7s
=> exporting to image 1.1s
=> => exporting layers 1.1s
=> => writing image sha256:5851e7cb6447b4e3baa50de7f366e5e3e271154d 0.0s
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287/lab01$
```

```
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287/lab01$ sudo docker images
```

| REPOSITORY | TAG | IMAGE ID | CREATED | SIZE |
|-------------|--------|--------------|--------------------|--------|
| <none> | <none> | 5851e7cb6447 | About a minute ago | 215MB |
| busybox | latest | 7cfbbec8963d | 42 hours ago | 4.86MB |
| fedora | latest | e4c5c8cc5d55 | 4 days ago | 184MB |
| mysql | latest | 4073e6a6f542 | 9 days ago | 530MB |
| ubuntu | latest | 08d22c0ceb15 | 10 days ago | 77.8MB |
| alpine/git | latest | 22d84a66cda4 | 3 months ago | 43.6MB |
| hello-world | latest | feb5d9fea6a5 | 18 months ago | 13.3kB |

- Zmiana nazwy w celu ułatwienia pracy.

```
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287/lab01$ sudo docker
image tag 5851e7cb6447 new
```

- Upewnienie się, czy repo jest sklonowane.

```
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287/lab01$ sudo docker
run -it new
root@d205153d33ed:/# ls
MDO2023_INO  boot  etc  lib  lib64  media  opt  root  sbin  sys  usr
bin          dev  home  lib32  libx32  mnt  proc  run  srv  tmp  var
root@d205153d33ed:/# cd MDO2023_INO/
root@d205153d33ed:/MDO2023_INO# ls
INO  ITE  README.md  READMEs
root@d205153d33ed:/MDO2023_INO# git --version
git version 2.34.1
root@d205153d33ed:/MDO2023_INO# exit
exit
```

- Sprawdzenie uruchomionych kontenerów.

```
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287/lab01$ docker images
```

| REPOSITORY | TAG | IMAGE ID | CREATED | SIZE |
|-------------|--------|--------------|---------------|--------|
| busybox | latest | 7cfbbec8963d | 44 hours ago | 4.86MB |
| fedora | latest | e4c5c8cc5d55 | 5 days ago | 184MB |
| mysql | latest | 4073e6a6f542 | 10 days ago | 530MB |
| ubuntu | latest | 08d22c0ceb15 | 10 days ago | 77.8MB |
| alpine/git | latest | 22d84a66cda4 | 3 months ago | 43.6MB |
| hello-world | latest | feb5d9fea6a5 | 18 months ago | 13.3kB |

- Wyczyszczenie obrazów.


```
kamila_partyka@Lenovo: ~/workspace/MDO2023_INO/INO/GCL2/KP406287/lab01$ sudo docker rmi -f 407
Untagged: mysql:latest
Untagged: mysql@sha256:2596158f73606ba571e1af29a9c32bec5dc021a2495e4a70d194a9b49664f4d9
Deleted: sha256:4073e6a6f54214da05256022b9a86e2f3f480703d1fc457a7085107c854e5ce3
Deleted: sha256:b8c5d9adce0fd5b241ea67bd806b3fc60974ed16d75c5f000177af102d5cf5fc
Deleted: sha256:98b24a10347370d8559d94feae9dfd61190b06f268935a124c4f0da29799dffb
Deleted: sha256:4b40445eb991cf2efcb8c8a95ba3986a69662f56ec037a6018245ef1e66a1fe8
Deleted: sha256:8e563627dfb670a7d5b511a7d2a8ad13bf1cd780c648e2adfa3916fff538ccd5
Deleted: sha256:bb9b8abd195901c807e441dc47f644113b9e6d9129f9385cd8de11fbfb9f7825
Deleted: sha256:aac0d3cb124aed27355bf12c0e0e52dc0e643461a53410f6b4d04388d5ad8eec
Deleted: sha256:64c3ec7bd49ea719008c36b582d180269ff2b4347194e250eb9ca97b3f9bf4ec
Deleted: sha256:b5f86b316e7eceb6d1af4ac6a44b0ee74d4a4f3797d692f7537801ccac0ba5b9
Deleted: sha256:4d08e7dd1c62fdeaf15f2882176a02f59f248ddd17fcf3f177c2b266a4b52093
Deleted: sha256:24582d92bfab0dba1234bbf8c691823fb1e9780cd3c6e34a4ae765c670c1cbe0
Deleted: sha256:8ac0706b4707318d0286b0c3c60212c2fe438993078473d7bc30340b0bce5456
```

- Wyciągnięcie zmian do gałęzi grupowej.

```
kamila_partyka@Lenovo:~/workspace/MDO2023_INO/INO/GCL2/KP406287$ git merge KP406287
Updating 9f9d022..e6005ce
```