

Jakub Terkalski

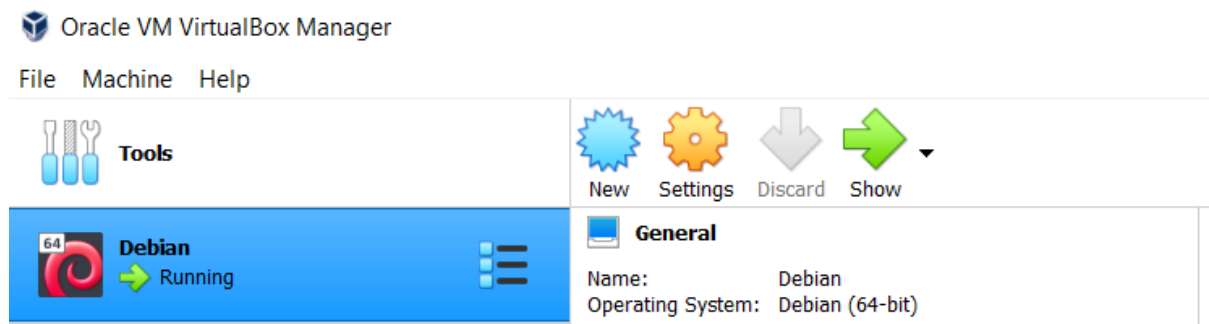
IS

nr. indeksu: 299766

Grupa: GĆL01

Nr sprawozdania: 1

Pracę nad ćwiczeniem rozpocząłem od pobrania Debiana na Virtual Box'ie.



## 1. Zainstaluj klienta Git i obsługę kluczy SSH

Do zainstalowania gita użyłem następującej komendy:

```
sudo apt install git
```

```
osboxes@kuba: ~  
osboxes@kuba:~$ sudo apt install git  
[sudo] password for osboxes:  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following additional packages will be installed:  
  git-man liberror-perl  
Suggested packages:  
  git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk  
  gitweb git-cvs git-mediawiki git-svn  
The following NEW packages will be installed:  
  git git-man liberror-perl  
0 upgraded, 3 newly installed, 0 to remove and 0 not upgraded.  
Need to get 7,386 kB of archives.  
After this operation, 37.9 MB of additional disk space will be used.  
Do you want to continue? [Y/n] y  
Get:1 http://deb.debian.org/debian bullseye/main amd64 liberror-perl all 0.17029-1 [31.0 kB]  
Get:2 http://deb.debian.org/debian bullseye/main amd64 git-man all 1:2.30.2-1 [1,827 kB]  
Get:3 http://deb.debian.org/debian bullseye/main amd64 git amd64 1:2.30.2-1 [5,527 kB]  
Fetched 7,386 kB in 1s (11.9 MB/s)  
Selecting previously unselected package liberror-perl.
```

## 2. Sklonuj repozytorium

<https://github.com/InzynieriaOprogramowaniaAGH/MD02022> za pomocą HTTPS

Do wykonania tego podpunktu użyłem komendy **git clone** z podanym adresem:

```
osboxes@kuba: ~/.ssh
osboxes@kuba:~/.ssh$ git clone git@github.com:InzynieriaOprogramowaniaAGH/MD02022.git
Cloning into 'MD02022'...
The authenticity of host 'github.com (140.82.121.3)' can't be established.
RSA key fingerprint is SHA256:nThbg6kXUpJWGL7E1IG0CspRomTxdCARLviKw6E5SY8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com,140.82.121.3' (RSA) to the list of known hosts.
remote: Enumerating objects: 1363, done.
remote: Counting objects: 100% (1363/1363), done.
remote: Compressing objects: 100% (1025/1025), done.
remote: Total 1363 (delta 199), reused 1231 (delta 158), pack-reused 0
Receiving objects: 100% (1363/1363), 60.92 MiB | 13.83 MiB/s, done.
Resolving deltas: 100% (199/199), done.
osboxes@kuba:~/.ssh$
```

## 3. Upewnij się w kwestii dostępu do repozytorium jako uczestnik i sklonuj je za pomocą utworzonego klucza SSH

- Utwórz dwa klucze SSH, inne niż RSA, w tym co najmniej jeden zabezpieczony hasłem

Do wykonania tego podpunktu użyłem komendy: **ssh-keygen -t ecdsa -C** z adresem e-mail przypisanym do mojego konta github.

Generowanie klucza nie zabezpieczonego hasłem:

```
osboxes@kuba: ~
Receiving objects: 100% (1340/1340), 60.33 MiB | 21.93 MiB/s, done.
Resolving deltas: 100% (198/198), done.
osboxes@kuba:~$ ssh-keygen -t ecdsa -C jakub.terkalski@gmail.com
Generating public/private ecdsa key pair.
Enter file in which to save the key (/home/osboxes/.ssh/id_ecdsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/osboxes/.ssh/id_ecdsa
Your public key has been saved in /home/osboxes/.ssh/id_ecdsa.pub
The key fingerprint is:
SHA256:/7h40syKm8KypogCYTMXJPHip0RAFhgA/VJTFTyLU7k jakub.terkalski@gmail.com
The key's randomart image is:
+---[ECDSA 256]---+
|B0+. ..ooo      |
|+ +.o   =       |
|. + +.. o +     |
|0+o.. o E       |
|o++.. .S        |
|.               |
|..      o .     |
|= .o  o  +..o   |
|0o  .+...o+o..  |
+----[SHA256]-----+
osboxes@kuba:~$
```

Drugi klucz zabezpieczony hasłem:

```
osboxes@kuba: ~  
|0o .+...o+o.. |  
+----[SHA256]-----+  
osboxes@kuba:~$ ssh-keygen -t ecdsa -C jakub.terkalski@gmail.com  
Generating public/private ecdsa key pair.  
Enter file in which to save the key (/home/osboxes/.ssh/id_ecdsa): klucz2  
Enter passphrase (empty for no passphrase):  
Enter same passphrase again:  
Your identification has been saved in klucz2  
Your public key has been saved in klucz2.pub  
The key fingerprint is:  
SHA256:putsRYpnBL7wrJlWAH7l0lsfZW5fWC00TFx7N2TEqds jakub.terkalski@gmail.com  
The key's randomart image is:  
+---[ECDSA 256]---+  
|                +..+o|  
|.  ..      o+ +=.|  
|.. .+.    +  o=oo|  
|.oo.o.... o o.oo|  
|.+=+ooS o . + |  
|  *.+o..  o E  |  
|  = o..      |  
|  = ...      |  
|.  o+        |  
+---[SHA256]-----+  
osboxes@kuba:~$
```



- Skonfiguruj klucz SSH jako metodę dostępu

Dodaje wygenerowane klucze u siebie na githubie:

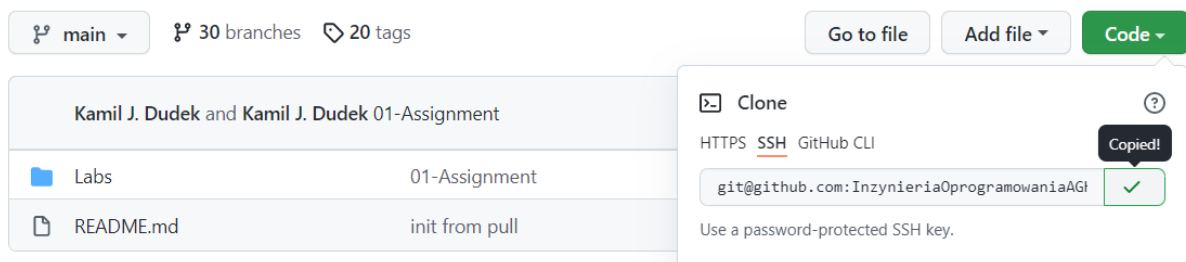
## SSH keys

New SSH key

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

 SSH	<b>klucz1</b> SHA256:9aN3v/JiT00ids1JyyCi7ruRSklm+hc35+bsaJ0TLkc Added on Nov 7, 2021 Never used — Read/write	Delete
 SSH	<b>klucz2</b> SHA256:/7h40syKm8KypogCYTMXJPHip0RAfhgA/VJTFTyLU7k Added on Nov 7, 2021 Last used within the last week — Read/write	Delete

- Sklonuj repozytorium z wykorzystaniem protokołu SSH



Przy użyciu komendy **git clone** i skopiowanego adresu klonuje repozytorium:

```
osboxes@kuba: ~/.ssh$ git clone git@github.com:InzynieriaOprogramowaniaAGH/MD02022.git
Cloning into 'MD02022'...
The authenticity of host 'github.com (140.82.121.3)' can't be established.
RSA key fingerprint is SHA256:nThbg6kXUpJWGL7E1IGOCspRomTxdCARLviKw6E5SY8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com,140.82.121.3' (RSA) to the list of known hosts.
remote: Enumerating objects: 1363, done.
remote: Counting objects: 100% (1363/1363), done.
remote: Compressing objects: 100% (1025/1025), done.
remote: Total 1363 (delta 199), reused 1231 (delta 158), pack-reused 0
Receiving objects: 100% (1363/1363), 60.92 MiB | 13.83 MiB/s, done.
Resolving deltas: 100% (199/199), done.
osboxes@kuba: ~/.ssh$
```

#### 4. Przełącz się na gałąź swojej grupy

Użyta komenda: **git checkout GCL01**

```
osboxes@kuba: ~/MD02022/GCL/01$ git branch
* main
osboxes@kuba: ~/MD02022$ git checkout GCL01
Branch 'GCL01' set up to track remote branch 'GCL01' from 'origin'.
Switched to a new branch 'GCL01'
osboxes@kuba: ~/MD02022$ git branch
* GCL01
  main
osboxes@kuba: ~/MD02022$ git checkout -b JT299766
Switched to a new branch 'JT299766'
osboxes@kuba: ~/MD02022$ ls
GCL  Labs  README.md
osboxes@kuba: ~/MD02022$ cd GCL/
osboxes@kuba: ~/MD02022/GCL$ ls
01
osboxes@kuba: ~/MD02022/GCL$ cd 01/
osboxes@kuba: ~/MD02022/GCL/01$
```

#### 5. Utwórz gałąź o nazwie "inicjały & nr indeksu" np. KD232144

Użyta komenda: **git checkout -b nazwa\_brancha** (również na screenshocie w punkcie wyżej)

#### 6. Rozpocznij pracę na nowej gałęzi

- W katalogu właściwym dla grupy utwórz nowy katalog, także o nazwie "inicjały & nr indeksu" np. KD232144

Użyta komenda: **mkdir JT299766**

Pod koniec załączam sprawozdanie wraz ze screenshotami do repozytorium używając komendy **git add**, oraz **git commit -m "nazwa commitu"**

```
osboxes@kuba: ~/MDO2022/GCL/01/JT299766
Untracked files:
  (use "git add <file>..." to include in what will be committed)
  ./

nothing added to commit but untracked files present (use "git add" to track)
osboxes@kuba:~/MDO2022/GCL/01/JT299766$ git add *
osboxes@kuba:~/MDO2022/GCL/01/JT299766$ git status
On branch JT299766
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   Screenshot from 2021-11-07 17-32-59.png
    new file:   Screenshot from 2021-11-07 17-38-12.png
    new file:   Screenshot from 2021-11-07 17-44-58.png
    new file:   Screenshot from 2021-11-07 17-47-02.png
    new file:   Screenshot from 2021-11-07 17-50-26.png
    new file:   Screenshot from 2021-11-07 17-58-22.png
    new file:   Screenshot from 2021-11-07 17-59-31.png
    new file:   Screenshot from 2021-11-07 18-00-32.png
    new file:   Screenshot from 2021-11-07 18-01-06.png
    new file:   Screenshot from 2021-11-07 18-01-49.png
    new file:   Screenshot from 2021-11-07 18-04-47.png
    new file:   Screenshot from 2021-11-07 18-05-05.png
```

```
osboxes@kuba: ~/MDO2022/GCL/01/JT299766
kalski@gmail.com
osboxes@kuba:~/MDO2022/GCL/01/JT299766$ git commit -m "dodano screenshoty"
[JT299766 a6d91d4] dodano screenshoty
12 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 GCL/01/JT299766/Screenshot from 2021-11-07 17-32-59.png
create mode 100644 GCL/01/JT299766/Screenshot from 2021-11-07 17-38-12.png
create mode 100644 GCL/01/JT299766/Screenshot from 2021-11-07 17-44-58.png
create mode 100644 GCL/01/JT299766/Screenshot from 2021-11-07 17-47-02.png
create mode 100644 GCL/01/JT299766/Screenshot from 2021-11-07 17-50-26.png
create mode 100644 GCL/01/JT299766/Screenshot from 2021-11-07 17-58-22.png
create mode 100644 GCL/01/JT299766/Screenshot from 2021-11-07 17-59-31.png
create mode 100644 GCL/01/JT299766/Screenshot from 2021-11-07 18-00-32.png
create mode 100644 GCL/01/JT299766/Screenshot from 2021-11-07 18-01-06.png
create mode 100644 GCL/01/JT299766/Screenshot from 2021-11-07 18-01-49.png
create mode 100644 GCL/01/JT299766/Screenshot from 2021-11-07 18-04-47.png
create mode 100644 GCL/01/JT299766/Screenshot from 2021-11-07 18-05-05.png
osboxes@kuba:~/MDO2022/GCL/01/JT299766$ git status
On branch JT299766
nothing to commit, working tree clean
osboxes@kuba:~/MDO2022/GCL/01/JT299766$ git branch
  GCL01
* JT299766
  main
```

Wciągam gałąź do gałęzi grupowej za pomocą **git merge**

```
osboxes@kuba: ~/MDO2022/GCL/01
osboxes@kuba:~/MDO2022/GCL/01$ git branch
* GCL01
  JT299766
  main
osboxes@kuba:~/MDO2022/GCL/01$ git merge JT299766
Updating e9b7def..a6d91d4
Fast-forward
.../JT299766/Screenshot from 2021-11-07 17-32-59.png | Bin 0 -> 105305 bytes
.../JT299766/Screenshot from 2021-11-07 17-38-12.png | Bin 0 -> 126556 bytes
.../JT299766/Screenshot from 2021-11-07 17-44-58.png | Bin 0 -> 88821 bytes
.../JT299766/Screenshot from 2021-11-07 17-47-02.png | Bin 0 -> 85369 bytes
.../JT299766/Screenshot from 2021-11-07 17-50-26.png | Bin 0 -> 80248 bytes
.../JT299766/Screenshot from 2021-11-07 17-58-22.png | Bin 0 -> 72635 bytes
.../JT299766/Screenshot from 2021-11-07 17-59-31.png | Bin 0 -> 99979 bytes
.../JT299766/Screenshot from 2021-11-07 18-00-32.png | Bin 0 -> 100533 bytes
.../JT299766/Screenshot from 2021-11-07 18-01-06.png | Bin 0 -> 63944 bytes
.../JT299766/Screenshot from 2021-11-07 18-01-49.png | Bin 0 -> 100114 bytes
.../JT299766/Screenshot from 2021-11-07 18-04-47.png | Bin 0 -> 76032 bytes
.../JT299766/Screenshot from 2021-11-07 18-05-05.png | Bin 0 -> 98682 bytes
12 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 GCL/01/JT299766/Screenshot from 2021-11-07 17-32-59.png
create mode 100644 GCL/01/JT299766/Screenshot from 2021-11-07 17-38-12.png
create mode 100644 GCL/01/JT299766/Screenshot from 2021-11-07 17-44-58.png
create mode 100644 GCL/01/JT299766/Screenshot from 2021-11-07 17-47-02.png
```

Do oznaczenia tagiem używam komendy **git tag**

Przy użyciu **git push** wrzucam zmiany na repozytorium na githubie.