

# Sprawdzian L<sup>A</sup>T<sub>E</sub>X

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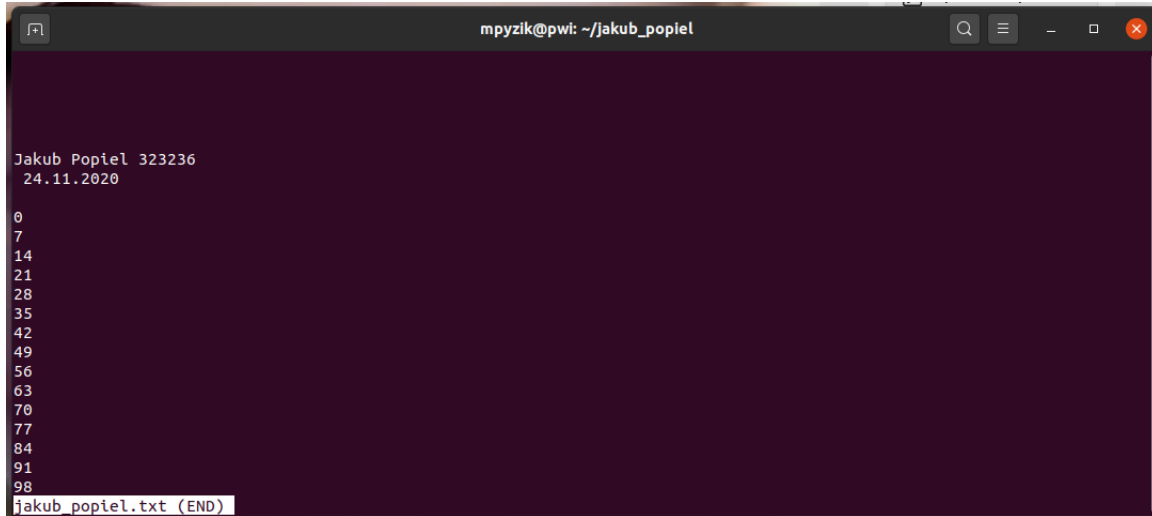
## 1 Zad 1

Przy pomocy komendy `ssh-keygen` wygenerowałem klucz, a następnie wrzuciłem go na serwer przy pomocy `ssh-copy-id`, po czym zalogowałem się na serwer

```
mpyzik@pwi: ~  
unknown key type sprawdziankey  
jakub@jakub-Swift-SF314-42:~$ ssh-keygen -t rsa  
Generating public/private rsa key pair.  
Enter file in which to save the key (/home/jakub/.ssh/id_rsa):  
Enter passphrase (empty for no passphrase):  
Enter same passphrase again:  
Your identification has been saved in /home/jakub/.ssh/id_rsa  
Your public key has been saved in /home/jakub/.ssh/id_rsa.pub  
The key fingerprint is:  
SHA256:0vvveNQo7hFLSiYtUZDA4bXWCOLXsKSD30nt39ziIow jakub@jakub-Swift-SF314-42  
The key's randomart image is:  
+---[RSA 3072]-----+  
|  .+*B*+.o      |  
|  .+o=0+++.o    |  
|  ..o+B=oo .    |  
|  ..+oo+.      |  
|    .. S .. o . |  
|    o o .. + .  |  
|    oo. . .     |  
|    E.oo. .     |  
|    .o...       |  
+-----[SHA256]-----+  
jakub@jakub-Swift-SF314-42:~$ ^C  
jakub@jakub-Swift-SF314-42:~$ ssh-copy-id -i /home/jakub/.ssh/id_rsa.pub mpyzik@pwi.ii.uni.wroc.pl  
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/jakub/.ssh/id_rsa.pub"  
  
The authenticity of host 'pwi.ii.uni.wroc.pl (156.17.4.60)' can't be established.  
ECDSA key fingerprint is SHA256:t7wSHC5+LR0zhY/Hlr13kkYXCWIGaC5K1NMQLIbxY4c.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? L2vB0dI8bdB7bjnUhL4LWG  
Please type 'yes', 'no' or the fingerprint: yes  
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed  
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new key  
mpyzik@pwi.ii.uni.wroc.pl's password:  
Permission denied, please try again.  
mpyzik@pwi.ii.uni.wroc.pl's password:  
Permission denied, please try again.  
mpyzik@pwi.ii.uni.wroc.pl's password:  
  
Number of key(s) added: 1  
  
Now try logging into the machine, with: "ssh 'mpyzik@pwi.ii.uni.wroc.pl'"  
and check to make sure that only the key(s) you wanted were added.  
  
jakub@jakub-Swift-SF314-42:~$ ssh mpyzik@pwi.ii.uni.wroc.pl  
Linux pwi 4.19.0-12-amd64 #1 SMP Debian 4.19.152-1 (2020-10-18) x86_64  
  
The programs included with the Debian GNU/Linux system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent  
permitted by applicable law.  
Last login: Tue Nov 24 12:33:40 2020 from 5.173.248.201  
mpyzik@pwi:~$
```

## 2 Zad 2

Stworzyłem plik nazwany imieniem i nazwiskiem, a następnie dodałem do niego zadaną treść i wyświetliłem poleceniem less, po czym przeniosłem plik do nowo utworzonego katalogu "testy".

A terminal window titled 'mpyzik@pwi: ~/jakub\_popiel'. It displays the content of a file named 'jakub\_popiel.txt'. The content consists of the name 'Jakub Popiel' followed by the ID '323236' and the date '24.11.2020'. Below this, there is a list of numbers from 0 to 98 in increments of 7 (0, 7, 14, 21, 28, 35, 42, 49, 56, 63, 70, 77, 84, 91, 98). The prompt at the bottom is 'jakub\_popiel.txt (END)'.

```
mpyzik@pwi: ~/jakub_popiel
Jakub Popiel 323236
24.11.2020
0
7
14
21
28
35
42
49
56
63
70
77
84
91
98
jakub_popiel.txt (END)
```

Skorzystałem z następujących komend:

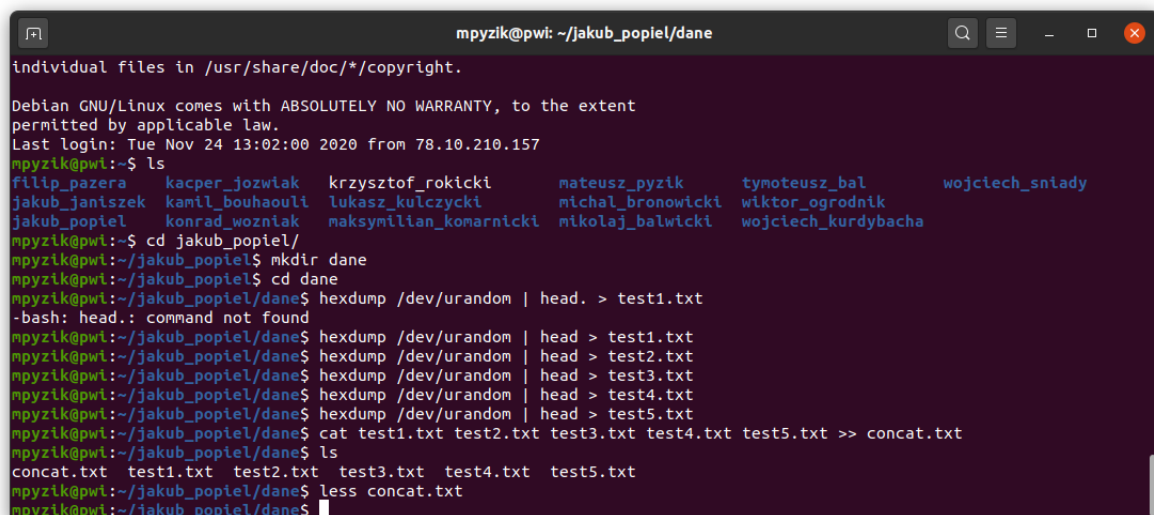
```
$ touch jakub_popiel.txt
$ echo 'Jakub_Popiel_323236' > jakub_popiel.txt
$ echo '_24.11.2020' >> jakub_popiel.txt
$ seq 0 7 100 >> jakub_popiel.txt
$ mkdir testy
$ mv jakub_popiel.txt testy/
```

Następnie wylogowałem się z serwera i pobrałem plik do lokalnego katalogu przy pomocy komendy:

```
$ scp -r mpyzik@pwi.ii.uni.wroc.pl:~/jakub_popiel/testy/jakub_popiel.txt .
```

## 3 Zad 3

Po powtórny zalogowaniu na serwer przy pomocy wskazanej komendy stworzyłem 5 plików tekstowych, a następnie scalałem je przy pomocy komendy cat.

A terminal window titled 'mpyzik@pwi: ~/jakub\_popiel/dane'. It shows a series of commands and their outputs. First, it lists files in /usr/share/doc/\*/copyright. Then, it shows the Debian GNU/Linux warranty notice. After a login message, it lists users. Then, it creates a directory 'dane', changes to it, and uses 'hexdump /dev/urandom | head' to create five files: test1.txt, test2.txt, test3.txt, test4.txt, and test5.txt. Finally, it concatenates these files into 'concat.txt' and displays its content with 'less concat.txt'.

```
mpyzik@pwi: ~/jakub_popiel/dane
individual files in /usr/share/doc/*/copyright.
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Tue Nov 24 13:02:00 2020 from 78.10.210.157
mpyzik@pwi:~$ ls
filip_pazera kacper_joyziak krzysztof_rokicki mateusz_pyzik tymoteusz_bal wojciech_sniady
jakub_janiszek kamil_bouhaoui lukasz_kulczycki michal_bronowicki wiktoria_ogrodnik
jakub_popiel konrad_wozniak maksymilian_komarnicki mikolaj_balwicki wojciech_kurdybacha
mpyzik@pwi:~$ cd jakub_popiel/
mpyzik@pwi:~/jakub_popiel$ mkdir dane
mpyzik@pwi:~/jakub_popiel$ cd dane
mpyzik@pwi:~/jakub_popiel/dane$ hexdump /dev/urandom | head > test1.txt
-bash: head.: command not found
mpyzik@pwi:~/jakub_popiel/dane$ hexdump /dev/urandom | head > test1.txt
mpyzik@pwi:~/jakub_popiel/dane$ hexdump /dev/urandom | head > test2.txt
mpyzik@pwi:~/jakub_popiel/dane$ hexdump /dev/urandom | head > test3.txt
mpyzik@pwi:~/jakub_popiel/dane$ hexdump /dev/urandom | head > test4.txt
mpyzik@pwi:~/jakub_popiel/dane$ hexdump /dev/urandom | head > test5.txt
mpyzik@pwi:~/jakub_popiel/dane$ cat test1.txt test2.txt test3.txt test4.txt test5.txt >> concat.txt
mpyzik@pwi:~/jakub_popiel/dane$ ls
concat.txt test1.txt test2.txt test3.txt test4.txt test5.txt
mpyzik@pwi:~/jakub_popiel/dane$ less concat.txt
mpyzik@pwi:~/jakub_popiel/dane$
```