

## Создание пользователя Dmitrij и Jon

```
root@ubuntu:~# adduser --force-badname Dmitrij
Allowing use of questionable username.
Adding user `Dmitrij' ...
Adding new group `Dmitrij' (1001) ...
Adding new user `Dmitrij' (1001) with group `Dmitrij' ...
The home directory `/home/Dmitrij' already exists. Not copying from `/etc/skel'.
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for Dmitrij
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
root@ubuntu:~# adduser --force-badname Jon
Allowing use of questionable username.
Adding user `Jon' ...
Adding new group `Jon' (1002) ...
Adding new user `Jon' (1002) with group `Jon' ...
Creating home directory `/home/Jon' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for Jon
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
root@ubuntu:~#
```

## Генерация ключа

```
C:\Users\ADMIN>ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (C:\Users\ADMIN/.ssh/id_rsa):
C:\Users\ADMIN/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\ADMIN/.ssh/id_rsa.
Your public key has been saved in C:\Users\ADMIN/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:hC0iFpFFAP1ZvF/4n/TevJ02c7zFvgGaiB6kBgJAJ3Y admin@DESKTOP-GRCUP2R
The key's randomart image is:
+---[RSA 3072]-----+
|+*+Eo.                |
|o *.  oo              |
|. o..oo.o.            |
|.. .o..o. .           |
|. .  oSo .            |
|. . o o o + ..        |
|   o o . = o oo       |
|. . .  o .BB          |
|.      .o=%           |
+----[SHA256]-----+
C:\Users\ADMIN>
```

## Добавление публичного ключа на сервер

```
root@ubuntu:~# su Dmitrij
Dmitrij@ubuntu:/root$ cd ~
Dmitrij@ubuntu:~$ ls -a
.  .. .bash_logout .bashrc .profile
Dmitrij@ubuntu:~$ mkdir .ssh
Dmitrij@ubuntu:~$ cd .ssh
Dmitrij@ubuntu:~/.ssh$ touch authorized_keys
Dmitrij@ubuntu:~/.ssh$ ls
authorized_keys
Dmitrij@ubuntu:~/.ssh$ echo ^[[200~ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGC3Lmob1
ZVNqha8t4+QbNVzflelRE70N0FaTGf3109En/Na6JD1Bs504vjkXZ7KSLP+haqpMi6duskrGujScDXA2
o0vYLLoUV0WTLqbBjl6mAKeDYfFHq5DhzKs33nldB4hHHAnmNaxpFXCaDxTrohLfrhQdhoI1Lh4vewML
DESKTOP-GRCUP2R~ >> authorized_keys
Dmitrij@ubuntu:~/.ssh$ cat authorized_keys
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGC3Lmob1SjKgXmW2F2AADQyDGtek7Qf2HhQ9/a1AAw8
n/Na6JD1Bs504vjkXZ7KSLP+haqpMi6duskrGujScDXA2Ppc+5MLEZnEpz7ZJDtmjFjYB/oEXqwS+ZQ5
33nldB4hHHAnmNaxpFXCaDxTrohLfrhQdhoI1Lh4vewML+3M9aPVaFbVZl+bef7aZlxR451MbmtjWCfn
Dmitrij@ubuntu:~/.ssh$
```

Проверка (при входе у пользователя Jon запрашивается пароль, а у пользователя Dmitrij происходит автоматический вход по ssh ключу)

```
C:\Users\ADMIN\.ssh>ssh Jon@172.27.246.203
Jon@172.27.246.203's password:

C:\Users\ADMIN\.ssh>ssh Dmitrij@172.27.246.203
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-53-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Вт 29 ноя 2022 14:39:06 UTC

System load:  0.0               Processes:            114
Usage of /:   7.9% of 61.21GB   Users logged in:     2
Memory usage: 39%              IPv4 address for eth0: 172.27.246.203
Swap usage:   0%

 * Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
   just raised the bar for easy, resilient and secure K8s cluster deployment.

   https://ubuntu.com/engage/secure-kubernetes-at-the-edge

48 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Last login: Tue Nov 29 14:39:06 2022 from 172.27.240.1
Dmitrij@ubuntu:~$
```

Запрет на ввод команд sudo

```
# User privilege specification
root    ALL=(ALL:ALL) ALL
Jon     ALL=(ALL) NOPASSWD: ALL, !ALL
Dmitrij ALL=(ALL) NOPASSWD: ALL, ALL
```

```
Jon@ubuntu:~$ sudo su
Sorry, user Jon is not allowed to execute '/usr/bin/su' as root on ubuntu.
Jon@ubuntu:~$ sudo systemctl status ssh
Sorry, user Jon is not allowed to execute '/usr/bin/systemctl status ssh' as root on ubuntu.
```

## Создание файла под пользователем Dmitrij и запрет на чтение у Jon

```
Dmitrij@ubuntu:/$ ls
bin boot dev etc home lib lib32 lib64 libx32 lost+found media mnt opt proc root run sbin snap srv swap.img sys tmp usr var
Dmitrij@ubuntu:/$ cd tmp
Dmitrij@ubuntu:/tmp$ touch file
Dmitrij@ubuntu:/tmp$ echo TEST >> file
Dmitrij@ubuntu:/tmp$ cat file
TEST
Dmitrij@ubuntu:/tmp$ su Jon
Password:
Jon@ubuntu:/tmp$ cat file
TEST
Jon@ubuntu:/tmp$ su Dmitrij
Password:
Dmitrij@ubuntu:/tmp$ chmod 760 file
Dmitrij@ubuntu:/tmp$ su Jon
Password:
Jon@ubuntu:/tmp$ cat file
cat: file: Permission denied
Jon@ubuntu:/tmp$
```

## Создание пользователя с интерпретатором bash по умолчанию

```
root@ubuntu:~# useradd -m -s /bin/bash bashUser
```