### Лабораторная работа 10

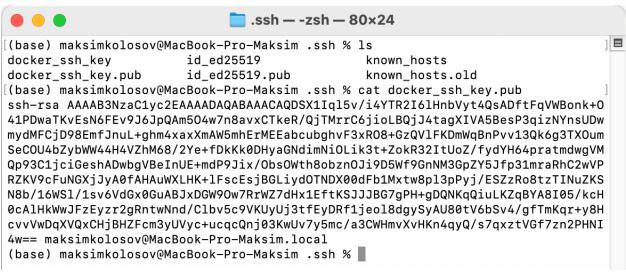
Тема: Docker

## Задача 1: Настройка SSH-аутентификации по ключу

Генерируем ключ

```
maksimkolosov — -zsh — 80×24
Last login: Sun Dec 8 11:35:40 on ttys000
[(base) maksimkolosov@MacBook-Pro-Maksim ~ % ssh-keygen -t rsa -b 4096 -f ~/.ssh/]
docker_ssh_key
Generating public/private rsa key pair.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /Users/maksimkolosov/.ssh/docker_ssh_key
Your public key has been saved in /Users/maksimkolosov/.ssh/docker_ssh_key.pub
The key fingerprint is:
SHA256:/Dovjg6P612QKQtZ4W9tGEHodm5kjTFyv7GPzSSyf+g maksimkolosov@MacBook-Pro-Mak
sim.local
The key's randomart image is:
+---[RSA 4096]----+
.00
1 .0.+.
1 .00.*
00.=*+.
lo..=B o+S
| . ++0+ ..
  ...0.0 .
    ..=o.B.
| .o.o+Eoo+.
+----[SHA256]----+
(base) maksimkolosov@MacBook-Pro-Maksim ~ %
```

#### Копируем ключ с локалки на сервер





Убеждаемся, что вход по ssh возможен без пароля:

```
💿 🛑 📄 maksimkolosov — root@b2e8b78946a3: ~ — ssh -i ~/.ssh/docker_ssh_key -...
Last login: Sun Dec 8 12:31:03 on ttys001
[(base) maksimkolosov@MacBook-Pro-Maksim ~ % ssh -i ~/.ssh/docker_ssh_key -p 2222]
 root@localhost
The authenticity of host '[localhost]:2222 ([::1]:2222)' can't be established.
ED25519 key fingerprint is SHA256:2owXGxfolE0tBJG0sRmk6JqbsGDiX34yPhoJDUVHUsk.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '[localhost]:2222' (ED25519) to the list of known hos
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.10.14-linuxkit x86_64)
 * Documentation: https://help.ubuntu.com
                   https://landscape.canonical.com
 * Management:
 * Support:
                   https://ubuntu.com/pro
This system has been minimized by removing packages and content that are
not required on a system that users do not log into.
To restore this content, you can run the 'unminimize' command.
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
root@b2e8b78946a3:~#
```

#### Задача 2: Создание архивов на удаленной машине

Создание архива на удаленной машине:

ssh -p 2222 root@localhost "tar -czf /myarchive.tar.gz /folder1"

Скрин командной строки хоста:

```
[(base) maksimkolosov@MacBook-Pro-Maksim ~ % ssh -p 2222 root@localhost "tar -czf]
/myarchive.tar.gz /folder1"
[root@localhost's password:
   tar: Removing leading `/' from member names
   (base) maksimkolosov@MacBook-Pro-Maksim ~ %
```

Скрин командной строки удалёнки:

```
[root@2238280bbb76:/# ls
bin
      etc
               lib
                                  media
                                                          run
                                                                sys
boot folder1 lib.usr-is-merged mnt
                                                    proc
                                                         sbin
                                                                tmp
      home
               lib64
                                  myarchive.tar.gz root srv
                                                                usr
root@2238280bbb76:/#
```

Архив создался!

# Задача 3: Перенос файлов и архивов между локальным хостом и удаленной машиной

scp -i ~/.ssh/docker\_ssh\_key -P 2222 root@localhost:/myarchive.tar.gz ~/ssh

```
[(base) maksimkolosov@MacBook-Pro-Maksim ~ % cd
[(base) maksimkolosov@MacBook-Pro-Maksim ~ % cd ssh
[(base) maksimkolosov@MacBook-Pro-Maksim ssh % ls
myarchive.tar.gz
(base) maksimkolosov@MacBook-Pro-Maksim ssh %
```