Кейс 1. Установка и настройка SSH

```
5:~$ sudo apt-get install openssh-server
   sudo] password for kinitka:
 Reading package lists... Done
  Building dependency tree... Done
Reading state information... Done
  openssh-server is already the newest version (1:9.6p1-3ubuntu13.5).
Diupgraded, 0 newly installed, 0 to remove and 39 not upgraded.
                            21IAF5:~$ sudo systemctl status ssh
     ssh.service - OpenBSD Secure Shell server
       Loaded: loaded (/usr/lib/systemd/system/ssh.service; disabled; preset: enabled)
       Active: active (running) since Tue 2025-01-07 09:14:11 MSK; 2h 6min ago
    iggeredBy: • ssh.socket
           Docs: man:sshd(8)
                    man:sshd_config(5)
      Process: 1112 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
     Main PID: 1114 (sshd)
        Memory: 2.4M ()
       CGroup: /system.slice/ssh.service

-1114 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"
Jan 07 09:15:06 DESKTOP-021IAF5 sshd[1167]: pam_unix(sshd:session): session opened for user kinitka(uid=1000) by kinitka Jan 07 09:15:06 DESKTOP-021IAF5 sshd[1171]: Accepted password for kinitka from 172.24.224.1 port 51597 ssh2
Jan 07 09:19:36 DESKTOP-021IAF5 sshd[1309]: pam_unix(sshd:session): session opened for user kinitka(uid=1000) by kinitka Jan 07 09:19:36 DESKTOP-021IAF5 sshd[1309]: Accepted password for kinitka from 172.24.224.1 port 51756 ssh2
Jan 07 09:19:36 DESKTOP-021IAF5 sshd[1311]: pam_unix(sshd:session): session opened for user kinitka(uid=1000) by kinitka Jan 07 09:19:36 DESKTOP-021IAF5 sshd[1311]: pam_unix(sshd:session): session opened for user kinitka(uid=1000) by kinitka Jan 07 10:08:44 DESKTOP-021IAF5 sshd[1894]: pam_unix(sshd:auth): authentication failure; logname= uid=0 euid=0 tty=ss
Jan 07 10:08:58 DESKTOP-021IAF5 sshd[1894]: Failed password for root from 127.0.0.1 port 39022 ssh2
ESCOC
  sabled; preset: enabled)
 MSK; 2h 6min ago
    status=0/SUCCESS)
 10-100 startups"
 ssion): session opened for user kinitka(uid=1000) by kinitka(uid=0)
  for kinitka from 172.24.224.1 port 51597 ssh2
 ssion): session opened for user kinitka(uid=1000) by kinitka(uid=0)
 d for kinitka from 172.24.224.1 port 51756 ssh2
 ssion): session opened for user kinitka(uid=1000) by kinitka(uid=0)
 d for kinitka from 172.24.224.1 port 51757 ssh2
ssion): session opened for user kinitka(uid=1000) by kinitka(uid=0)
th): authentication failure; logname= uid=0 euid=0 tty=ssh ruser= rhost=127.0.0.1 user=root
  or root from 127.0.0.1 port 39022 ssh2
or root from 127.0.0.1 port 39022 ssh2
 lines 1-23/23 (END)...skipping...
  ISK; 2h 6min ago
```

Кейс 2. Подключение к удалённому серверу

```
kinitka@DESKTOP-021IAF5: ~
                                                                                                                        initka@DESKTOP-021IAF5:~$ ip addr show eth0
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default glen 1000
   link/ether 00:15:5d:05:9d:5c brd ff:ff:ff:ff:ff:ff
   inet 172.24.233.189/20 brd 172.24.239.255 scope global eth0
      valid lft forever preferred lft forever
   inet6 fe80::215:5dff:fe05:9d5c/64 scope link
      valid lft forever preferred lft forever
 initka@DESKTOP-021IAF5:~$
kinitka@DESKTOP-021IAF5: ~
                                                                                                                               \times
                                                                                                                        Windows PowerShell
(С) Корпорация Майкрософт (Microsoft Corporation). Все права защищены.
Попробуйте новую кроссплатформенную оболочку PowerShell (https://aka.ms/pscore6)
PS C:\WINDOWS\system32> ssh kinitka@172.24.233.189
kinitka@172.24.233.189's password:
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 5.15.167.4-microsoft-standard-WSL2 x86 64)
* Documentation: https://help.ubuntu.com
* Management:
                 https://landscape.canonical.com
* Support:
                 https://ubuntu.com/pro
System information as of Tue Jan 7 11:26:14 MSK 2025
 System load: 0.0
                                 Processes:
                                                       45
 Usage of /: 0.2% of 1006.85GB Users logged in:
 Memory usage: 12% IPv4 address for eth0: 172.24.233.189
 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
Last login: Tue Jan 7 09:19:37 2025 from 172.24.224.1
cinitka@DESKTOP-021IAF5:~$
```

kinitka@DESKTOP-021IAF5: ~

```
cinitka@DESKTOP-021IAF5:~$ ls
kinitka@DESKTOP-021IAF5:~$ nano file1.txt
kinitka@DESKTOP-021IAF5:~$ ls
file1.txt snap ssh . . ,
 initka@DESKTOP-021IAF5:~$ scp -P 2222 /home/kinitka/file1.txt root@localhost:/root/
    WARNING: REMOTE HOST IDENTIFICATION HAS CHANGED!
IT IS POSSIBLE THAT SOMEONE IS DOING SOMETHING NASTY!
Someone could be eavesdropping on you right now (man-in-the-middle attack)!
It is also possible that a host key has just been changed.
The fingerprint for the ED25519 key sent by the remote host is
SHA256:poiImJdA1POI5cDpoEcY8mzIhRe2CIE4A38e4bTjKEM.
Please contact your system administrator.
Add correct host key in /home/kinitka/.ssh/known hosts to get rid of this message.
Offending ECDSA key in /home/kinitka/.ssh/known hosts:4
 remove with:
 ssh-keygen -f '/home/kinitka/.ssh/known hosts' -R '[localhost]:2222'
Host key for [localhost]:2222 has changed and you have requested strict checking.
Host key verification failed.
scp: Connection closed
kinitka@DESKTOP-021IAF5:~$ ssh-keygen -f '/home/kinitka/.ssh/known hosts' -R '[localhost]:2222'
# Host [localhost]:2222 found: line 2
# Host [localhost]:2222 found: line 3
 Host [localhost]:2222 found: line 4
/home/kinitka/.ssh/known hosts updated.
Original contents retained as /home/kinitka/.ssh/known hosts.old
/sinitka@DESKTOP-021IAF5:~$ scp -P 2222 /home/kinitka/file1.txt root@localhost:/root
The authenticity of host '[localhost]:2222 ([127.0.0.1]:2222)' can't be established.
ED25519 key fingerprint is SHA256:poiImJdA1POI5cDpoEcY8mzIhRe2CIE4A38e4bTjKEM.
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 hosts.
root@localhost's password:
file1.txt
                                                                                      100%
                                                                                             10
                                                                                                    9.9KB/s 00:00
```

oot@ef75ab1bd593: ~

```
root@ef75ab1bd593:/# ls
bin dev home lib.usr-is-merged media opt root sbin sys usr
boot etc lib lib64
                                       proc run
root@ef75ab1bd593:/# cd root
root@ef75ab1bd593:~# ls
file1.txt
root@ef75ab1bd593:~# _
```

100% 10 4.7KB/s 00:00

kinitka@DESKTOP-021IAF5:~\$ scp -P 2222 root@localhost:/root/file1.txt /home/kinitka/ssh
root@localhost's password:
file1.txt
kinitka@DESKTOP-021IAF5:~\$ cd ssh
kinitka@DESKTOP-021IAF5:~/ssh\$ ls
archive_file file1.txt
kinitka@DESKTOP-021IAF5:../sch\$