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Отчет по лабораторной работе №9

1.Проверяем наличие ssh-сервера shhd

```
yaroslav@yaroslav-VirtualBox:~$ ssh
usage: ssh [-46AaCfGgKkMNnqsTtVvXxYy] [-B bind_interface]
           [-b bind_address] [-c cipher_spec] [-D [bind_address:]port]
           [-E log_file] [-e escape_char] [-F configfile] [-I pkcs11]
           [-i identity_file] [-J [user@]host[:port]] [-L address]
           [-l login_name] [-m mac_spec] [-O ctl_cmd] [-o option] [-p port]
           [-Q query_option] [-R address] [-S ctl_path] [-W host:port]
           [-w local_tun[:remote_tun]] destination [command [argument ...]]
```

2.Проверяем наличие ssh-клиента с помощью команды find

```
root@yaroslav-VirtualBox:~# find / -name ssh
/etc/ssh
/snap/core22/634/etc/default/ssh
/snap/core22/634/etc/init.d/ssh
/snap/core22/634/etc/ssh
/snap/core22/634/usr/bin/ssh
/snap/core22/634/usr/share/bash-completion/completions/ssh
/snap/core20/1822/etc/default/ssh
/snap/core20/1822/etc/init.d/ssh
/snap/core20/1822/etc/ssh
/snap/core20/1822/usr/bin/ssh
/snap/core20/1822/usr/share/bash-completion/completions/ssh
/usr/share/bash-completion/completions/ssh
/usr/lib/apt/methods/ssh
/usr/bin/ssh
find: '/run/user/1000/doc': Permission denied
find: '/run/user/1000/gvfs': Permission denied
/run/user/1000/keyring/ssh
root@yaroslav-VirtualBox:~#
```

```
root@yaroslav-VirtualBox:~# apt update
Hit:1 http://ru.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ru.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://ru.archive.ubuntu.com/ubuntu jammy-backports InRelease [108 kB]
Get:4 http://ru.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [66
6 kB]
Get:5 http://ru.archive.ubuntu.com/ubuntu jammy-updates/main i386 Packages [416
```

```
root@yaroslav-VirtualBox:~# apt install openssh-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  ncurses-term openssh-sftp-server ssh-import-id
Suggested packages:
  molly-guard monkeysphere ssh-askpass
The following NEW packages will be installed:
  ncurses-term openssh-server openssh-sftp-server ssh-import-id
0 upgraded, 4 newly installed, 0 to remove and 207 not upgraded.
Need to get 750 kB of archives.
After this operation, 6 046 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://ru.archive.ubuntu.com/ubuntu jammy-updates/main amd64 openssh-sftp
-server amd64 1:8.9p1-3ubuntu0.1 [38,7 kB]
Get:2 http://ru.archive.ubuntu.com/ubuntu jammy-updates/main amd64 openssh-serv
er amd64 1:8.9p1-3ubuntu0.1 [434 kB]
Get:3 http://ru.archive.ubuntu.com/ubuntu jammy-updates/main amd64 ncurses-term
 all 6.3-2ubuntu0.1 [267 kB]
Get:4 http://ru.archive.ubuntu.com/ubuntu jammy/main amd64 ssh-import-id all 5.
11-0ubuntu1 [10,1 kB]
Fetched 750 kB in 11s (69,5 kB/s)
Preconfiguring packages ...
Selecting previously unselected package openssh-sftp-server.
(Reading database ... 197860 files and directories currently installed.)
Preparing to unpack .../openssh-sftp-server_1%3a8.9p1-3ubuntu0.1_amd64.deb ...
```

Статус работы службы можно посмотреть командой *$ sudo systemctl status ssh*

```
root@yaroslav-VirtualBox:~# systemctl status ssh
● ssh.service - OpenBSD Secure Shell server
     Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: >
     Active: active (running) since Mon 2023-06-05 07:12:49 MSK; 5min ago
       Docs: man:sshd(8)
             man:sshd_config(5)
   Main PID: 4297 (sshd)
      Tasks: 1 (limit: 4616)
     Memory: 1.8M
        CPU: 21ms
     CGroup: /system.slice/ssh.service
             └─4297 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

июн 05 07:12:49 yaroslav-VirtualBox systemd[1]: Starting OpenBSD Secure Shell >
июн 05 07:12:49 yaroslav-VirtualBox sshd[4297]: Server listening on 0.0.0.0 po>
июн 05 07:12:49 yaroslav-VirtualBox sshd[4297]: Server listening on :: port 22.
июн 05 07:12:49 yaroslav-VirtualBox systemd[1]: Started OpenBSD Secure Shell s>
lines 1-16/16 (END)
```

3. включаем ssh в список доверенных служб

```
root@yaroslav-VirtualBox:~# ufw allow ssh
Rules updated
Rules updated (v6)
root@yaroslav-VirtualBox:~#
```

4. подключиться через ssh к удаленному серверу

(находим ip)

5.открываем удаленно xinetd.conf через vi

6. ps –е на удалённой и локальной машине (результат одинаковый)

yarik@yarik: ~

```
Last login: Mon Jun  5 01:57:20 2023 from 192.168.0.13
┌──(yarik㉿yarik)-[~]
└─$ ps -e
    PID TTY          TIME CMD
      1 ?        00:00:01 systemd
      2 ?        00:00:00 kthreadd
      3 ?        00:00:00 rcu_gp
      4 ?        00:00:00 rcu_par_gp
      5 ?        00:00:00 slub_flushwq
      6 ?        00:00:00 netns
      8 ?        00:00:00 kworker/0:0H-events_highpri
     10 ?        00:00:00 mm_percpu_wq
     11 ?        00:00:00 rcu_tasks_kthread
     12 ?        00:00:00 rcu_tasks_rude_kthread
     13 ?        00:00:00 rcu_tasks_trace_kthread
     14 ?        00:00:00 ksoftirqd/0
     15 ?        00:00:00 rcu_preempt
     16 ?        00:00:00 migration/0
     18 ?        00:00:00 cpuhp/0
     19 ?        00:00:00 cpuhp/1
     20 ?        00:00:00 migration/1
     21 ?        00:00:00 ksoftirqd/1
     26 ?        00:00:00 kdevtmpfs
     27 ?        00:00:00 inet_frag_wq
     28 ?        00:00:00 kauditd
     30 ?        00:00:00 khungtaskd
     31 ?        00:00:00 oom_reaper
     33 ?        00:00:00 writeback
     34 ?        00:00:00 kcompactd0
     35 ?        00:00:00 ksmd
```

root@yarik: ~

File   Actions   Edit   View   Help

```
┌──(root㉿yarik)-[~]
└─# ps -e
    PID TTY          TIME CMD
      1 ?        00:00:01 systemd
      2 ?        00:00:00 kthreadd
      3 ?        00:00:00 rcu_gp
      4 ?        00:00:00 rcu_par_gp
      5 ?        00:00:00 slub_flushwq
      6 ?        00:00:00 netns
      8 ?        00:00:00 kworker/0:0H-events_highpri
     10 ?        00:00:00 mm_percpu_wq
     11 ?        00:00:00 rcu_tasks_kthread
     12 ?        00:00:00 rcu_tasks_rude_kthread
     13 ?        00:00:00 rcu_tasks_trace_kthread
     14 ?        00:00:00 ksoftirqd/0
     15 ?        00:00:00 rcu_preempt
     16 ?        00:00:00 migration/0
     18 ?        00:00:00 cpuhp/0
     19 ?        00:00:00 cpuhp/1
     20 ?        00:00:00 migration/1
     21 ?        00:00:00 ksoftirqd/1
     26 ?        00:00:00 kdevtmpfs
     27 ?        00:00:00 inet_frag_wq
     28 ?        00:00:00 kauditd
     30 ?        00:00:00 khungtaskd
     31 ?        00:00:00 oom_reaper
     33 ?        00:00:00 writeback
     34 ?        00:00:00 kcompactd0
     35 ?        00:00:00 ksmd
     36 ?        00:00:00 khugepaged
     37 ?        00:00:00 kintegrityd
```

7. удаленно перезагружаем компьютер

```
┌──(yarik㊙yarik)-[~]
└─$ sudo reboot
[sudo] password for yarik:
Sorry, try again.
[sudo] password for yarik:

Broadcast message from root@yarik on pts/4 (Mon 2023-06-05 02:14:21 EDT):

The system will reboot now!


Connection to 192.168.0.14 closed by remote host.
Connection to 192.168.0.14 closed.
root@yaroslav-VirtualBox:~#
```
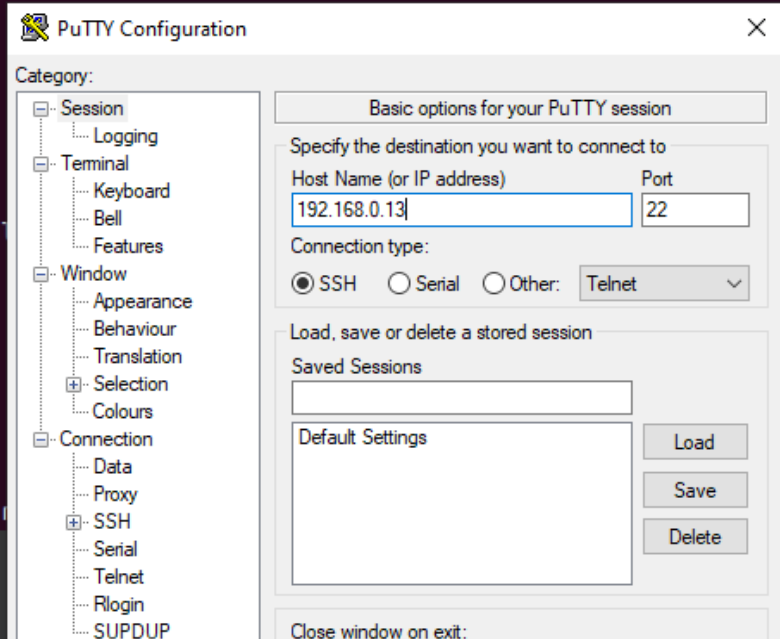
8. с помощью putty подключаемся удаленно

```
root@yaroslav-VirtualBox:~# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.0.13  netmask 255.255.255.0  broadcast 192.168.0.255
                                                    64  scopeid 0x20<link>
                                                    (Ethernet)
```

PuTTY Configuration

Category:
- Session
  - Logging
- Terminal
  - Keyboard
  - Bell
  - Features
- Window
  - Appearance
  - Behaviour
  - Translation
  - Selection
  - Colours
- Connection
  - Data
  - Proxy
  - SSH
  - Serial
  - Telnet
  - Rlogin
  - SUPDUP

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address)   Port
192.168.0.13   22

Connection type:
( ) SSH   ( ) Serial   ( ) Other: Telnet

Load, save or delete a stored session

Saved Sessions

Default Settings   Load
                       Save
                       Delete

Close window on exit:

`0  collisions 0`

`0  collisions 0`

9. запускаю удалённо графическое приложение (startx)