Протокол лабораторной работы 3

Подключение к удаленному серверу с помощью команды sftp

ddcbx@ddcbx-pc:~$ sftp 208179@192.168.2.200

The authenticity of host '192.168.2.200 (192.168.2.200)' can't be established.

ECDSA key fingerprint is SHA256:XYPm3tK0VX7Lru/W+sZ9v79n1SVA6YvqVVyU68fGeVE.

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added '192.168.2.200' (ECDSA) to the list of known hosts.

208179@192.168.2.200's password:

Connected to 192.168.2.200.

Работа с файлами, команды ls, cd, lls, !cd, !touch, !rm, !nano

sftp> ls

Desktop Documents Downloads Music Pictures Public Templates Videos

sftp> cd D

Desktop/ Documents/ Downloads/

sftp> cd Desktop/

sftp> lls

2 file2 Видео Загрузки Музыка Шаблоны

Desktop file3 Документы Изображения Общедоступные

sftp> put -r Документы/

Uploading Документы/ to /stud/208179/Desktop/Документы

Entering Документы/

Entering Документы/ff

Документы/ff/jj 100% 0 0.0KB/s 00:00

Документы/ff/file1 100% 218 2.8KB/s 00:00

Документы/f1 100% 23 1.8KB/s 00:00

sftp> ls

Документы

sftp> ls -l

drwxr-xr-x 3 208179 208179 4096 Sep 17 09:45 Документы

sftp> cd Документы/

sftp> ls

f1 ff

sftp> cd

sftp> ls

Desktop Documents Downloads Music Pictures Public Templates Videos

sftp> cd

Desktop/ Documents/ Downloads/ Music/ Pictures/ Public/ Templates/

Videos/

sftp> !touch f

sftp> lls

2 f file3 Документы Изображения Общедоступные

Desktop file2 Видео Загрузки Музыка Шаблоны

sftp> !rm f

sftp> lls

2 file2 Видео Загрузки Музыка Шаблоны

Desktop file3 Документы Изображения Общедоступные

sftp> !rm 2

sftp> lls

Desktop file3 Документы Изображения Общедоступные

file2 Видео Загрузки Музыка Шаблоны

sftp>

bye cd chdir chgrp chmod chown df dir

exit get help lcd lchdir lls lmkdir ln

lpwd ls lumask mkdir mget mput progress put

pwd quit reget rename reput rm rmdir symlink

version ! ?

sftp> !nano

Подключение с помощью ssh

ddcbx@ddcbx-pc:~$ ssh 208179@192.168.2.200

208179@192.168.2.200's password:

Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4.15.0-112-generic x86\_64)

\* Documentation: https://help.ubuntu.com

\* Management: https://landscape.canonical.com

\* Support: https://ubuntu.com/advantage

\* Canonical Livepatch is available for installation.

- Reduce system reboots and improve kernel security. Activate at:

https://ubuntu.com/livepatch

284 packages can be updated.

66 updates are security updates.

4 updates could not be installed automatically. For more details,

see /var/log/unattended-upgrades/unattended-upgrades.log

Копирование файлов с удаленного сервера

208179@cameron:~$ cd Documents/

208179@cameron:~/Documents$ touch f{1..30}

208179@cameron:~/Documents$ ls

f1 f11 f13 f15 f17 f19 f20 f22 f24 f26 f28 f3 f4 f6 f8

f10 f12 f14 f16 f18 f2 f21 f23 f25 f27 f29 f30 f5 f7 f9

208179@cameron:~/Documents$ logout

Connection to 192.168.2.200 closed.

ddcbx@ddcbx-pc:~$ scp 208179@192.168.2.200:~/Documents/f\* ./Документы

208179@192.168.2.200's password:

f1 100% 0 0.0KB/s 00:00

f10 100% 0 0.0KB/s 00:00

f11 100% 0 0.0KB/s 00:00

f12 100% 0 0.0KB/s 00:00

f13 100% 0 0.0KB/s 00:00

f14 100% 0 0.0KB/s 00:00

f15 100% 0 0.0KB/s 00:00

f16 100% 0 0.0KB/s 00:00

f17 100% 0 0.0KB/s 00:00

f18 100% 0 0.0KB/s 00:00

f19 100% 0 0.0KB/s 00:00

f2 100% 0 0.0KB/s 00:00

f20 100% 0 0.0KB/s 00:00

f21 100% 0 0.0KB/s 00:00

f22 100% 0 0.0KB/s 00:00

f23 100% 0 0.0KB/s 00:00

f24 100% 0 0.0KB/s 00:00

f25 100% 0 0.0KB/s 00:00

f26 100% 0 0.0KB/s 00:00

f27 100% 0 0.0KB/s 00:00

f28 100% 0 0.0KB/s 00:00

f29 100% 0 0.0KB/s 00:00

f3 100% 0 0.0KB/s 00:00

f30 100% 0 0.0KB/s 00:00

f4 100% 0 0.0KB/s 00:00

f5 100% 0 0.0KB/s 00:00

f6 100% 0 0.0KB/s 00:00

f7 100% 0 0.0KB/s 00:00

f8 100% 0 0.0KB/s 00:00

f9 100% 0 0.0KB/s 00:00

ddcbx@ddcbx-pc:~$ cd Документы/

ddcbx@ddcbx-pc:~/Документы$ ls

f1 f11 f13 f15 f17 f19 f20 f22 f24 f26 f28 f3 f4 f6 f8 ff

f10 f12 f14 f16 f18 f2 f21 f23 f25 f27 f29 f30 f5 f7 f9

ddcbx@ddcbx-pc:~/Документы$ ssh 208179@192.168.2.200

208179@192.168.2.200's password:

Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4.15.0-112-generic x86\_64)

\* Documentation: https://help.ubuntu.com

\* Management: https://landscape.canonical.com

\* Support: https://ubuntu.com/advantage

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284 packages can be updated.

66 updates are security updates.

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see /var/log/unattended-upgrades/unattended-upgrades.log

Last login: Thu Sep 17 10:12:30 2020 from 192.168.2.102

208179@cameron:~$ cat | tee ~/Documents/f\*

fk;ag

fk;ag

g

g

eaefef

eaefef

208179@cameron:~$ cd Documents/

208179@cameron:~/Documents$ cat f1

fk;ag

g

eaefef

208179@cameron:~/Documents$ cat f2

fk;ag

g

eaefef

208179@cameron:~/Documents$ nano

208179@cameron:~/Documents$ ls

ddd f10 f12 f14 f16 f18 f2 f21 f23 f25 f27 f29 f30 f5 f7 f9

f1 f11 f13 f15 f17 f19 f20 f22 f24 f26 f28 f3 f4 f6 f8

208179@cameron:~/Documents$ ls -l | head -n10 | tail -n3

-rw-rw-r-- 1 208179 208179 20 сен 17 10:34 f14

-rw-rw-r-- 1 208179 208179 20 сен 17 10:34 f15

-rw-rw-r-- 1 208179 208179 20 сен 17 10:34 f16

Команды put, mput, get, mget

dcbx@ddcbx-pc:~$ sftp 208179@192.168.2.200

208179@192.168.2.200's password:

Connected to 192.168.2.200.

sftp> ls

Desktop Documents Downloads Music Pictures Public Templates Videos

Д

sftp> cd Downloads/

sftp> mput f\*

Uploading f1 to /stud/208179/Downloads/f1

f1 100% 0 0.0KB/s 00:00

Uploading f10 to /stud/208179/Downloads/f10

f10 100% 0 0.0KB/s 00:00

Uploading f11 to /stud/208179/Downloads/f11

f11 100% 0 0.0KB/s 00:00

Uploading f12 to /stud/208179/Downloads/f12

f12 100% 0 0.0KB/s 00:00

Uploading f13 to /stud/208179/Downloads/f13

f13 100% 0 0.0KB/s 00:00

Uploading f14 to /stud/208179/Downloads/f14

f14 100% 0 0.0KB/s 00:00

Uploading f15 to /stud/208179/Downloads/f15

f15 100% 0 0.0KB/s 00:00

Uploading f16 to /stud/208179/Downloads/f16

f16 100% 0 0.0KB/s 00:00

Uploading f17 to /stud/208179/Downloads/f17

f17 100% 0 0.0KB/s 00:00

Uploading f18 to /stud/208179/Downloads/f18

f18 100% 0 0.0KB/s 00:00

Uploading f19 to /stud/208179/Downloads/f19

f19 100% 0 0.0KB/s 00:00

Uploading f2 to /stud/208179/Downloads/f2

f2 100% 0 0.0KB/s 00:00

Uploading f20 to /stud/208179/Downloads/f20

f20 100% 0 0.0KB/s 00:00

Uploading f21 to /stud/208179/Downloads/f21

f21 100% 0 0.0KB/s 00:00

Uploading f22 to /stud/208179/Downloads/f22

f22 100% 0 0.0KB/s 00:00

Uploading f23 to /stud/208179/Downloads/f23

f23 100% 0 0.0KB/s 00:00

Uploading f24 to /stud/208179/Downloads/f24

f24 100% 0 0.0KB/s 00:00

Uploading f25 to /stud/208179/Downloads/f25

f25 100% 0 0.0KB/s 00:00

Uploading f26 to /stud/208179/Downloads/f26

f26 100% 0 0.0KB/s 00:00

Uploading f27 to /stud/208179/Downloads/f27

f27 100% 0 0.0KB/s 00:00

Uploading f28 to /stud/208179/Downloads/f28

f28 100% 0 0.0KB/s 00:00

Uploading f29 to /sddcbx@ddcbx-pc:~$ tar -t -f f2

f1

file2

file3tud/208179/Downloads/f29

f29 100% 0 0.0KB/s 00:00

Uploading f3 to /stud/208179/Downloads/f3

f3 100% 0 0.0KB/s 00:00

Uploading f30 to /stud/208179/Downloads/f30

f30 100% 0 0.0KB/s 00:00

Uploading f4 to /stud/208179/Downloads/f4

f4 100% 0 0.0KB/s 00:00

Uploading f5 to /stud/208179/Downloads/f5

f5 100% 0 0.0KB/s 00:00

Uploading f6 to /stud/208179/Downloads/f6

f6 100% 0 0.0KB/s 00:00

Uploading f7 to /stud/208179/Downloads/f7

f7 100% 0 0.0KB/s 00:00

Uploading f8 to /stud/208179/Downloads/f8

f8 100% 0 0.0KB/s 00:00

Uploading f9 to /stud/208179/Downloads/f9

f9 100% 0 0.0KB/s 00:00

Uploading ff/ to /stud/208179/Downloads/ff

ff/ is not a regular file

sftp> mget f[1-9]

Fetching /stud/208179/Documents/f1 to f1

/stud/208179/Documents/f1 100% 20 4.7KB/s 00:00

Fetching /stud/208179/Documents/f2 to f2

/stud/208179/Documents/f2 100% 20 4.0KB/s 00:00

Fetching /stud/208179/Documents/f3 to f3

/stud/208179/Documents/f3 100% 20 1.9KB/s 00:00

Fetching /stud/208179/Documents/f4 to f4

/stud/208179/Documents/f4 100% 20 4.4KB/s 00:00

Fetching /stud/208179/Documents/f5 to f5

/stud/208179/Documents/f5 100% 20 3.0KB/s 00:00

Fetching /stud/208179/Documents/f6 to f6

/stud/208179/Documents/f6 100% 20 3.7KB/s 00:00

Fetching /stud/208179/Documents/f7 to f7

/stud/208179/Documents/f7 100% 20 4.1KB/s 00:00

Fetching /stud/208179/Documents/f8 to f8

/stud/208179/Documents/f8 100% 20 5.3KB/s 00:00

Fetching /stud/208179/Documents/f9 to f9

/stud/208179/Documents/f9 100% 20 1.8KB/s 00:00

sftp>

sftp> rm f\*

Removing /stud/208179/Downloads/f1

Removing /stud/208179/Downloads/f10

Removing /stud/208179/Downloads/f11

Removing /stud/208179/Downloads/f12

Removing /stud/208179/Downloads/f13

Removing /stud/208179/Downloads/f14

Removing /stud/208179/Downloads/f15

Removing /stud/208179/Downloads/f16

Removing /stud/208179/Downloads/f17

Removing /stud/208179/Downloads/f18

Removing /stud/208179/Downloads/f19

Removing /stud/208179/Downloads/f2

Removing /stud/208179/Downloads/f20

Removing /stud/208179/Downloads/f21

Removing /stud/208179/Downloads/f22

Removing /stud/208179/Downloads/f23

Removing /stud/208179/Downloads/f24

Removing /stud/208179/Downloads/f25

Removing /stud/208179/Downloads/f26

Removing /stud/208179/Downloads/f27

Removing /stud/208179/Downloads/f28

Removing /stud/208179/Downloads/f29

Removing /stud/208179/Downloads/f3

Removing /stud/208179/Downloads/f30

Removing /stud/208179/Downloads/f4

Removing /stud/208179/Downloads/f5

Removing /stud/208179/Downloads/f6

Removing /stud/208179/Downloads/f7

Removing /stud/208179/Downloads/f8

Removing /stud/208179/Downloads/f9

sftp> mkdir ff

sftp> ls

ff

Работа с gzip, tar

ddcbx@ddcbx-pc:~$ tar -cz -f - Desktop/ | ssh 208179@192.168.2.200 'gzip -d >Desktop/ff'208179@192.168.2.200's password:

ddcbx@ddcbx-pc:~$ tar -c -f f2 f1 file2 file3

ddcbx@ddcbx-pc:~$ gzip f2

ddcbx@ddcbx-pc:~$ ls

Desktop f2.gz file3 Видео Загрузки Музыка Шаблоны

f1 file2 lkfg Документы Изображения Общедоступные

ddcbx@ddcbx-pc:~$ gzip < f1 >f1.gz

ddcbx@ddcbx-pc:~$ ls

Desktop f1.gz file2 lkfg Документы Изображения Общедоступные

f1 f2.gz file3 Видео Загрузки Музыка Шаблоны

ddcbx@ddcbx-pc:~$ gzip -d f2.gz

ddcbx@ddcbx-pc:~$ ls

Desktop f1.gz file2 lkfg Документы Изображения Общедоступные

f1 f2 file3 Видео Загрузки Музыка Шаблоны

ddcbx@ddcbx-pc:~$ tar -t -f f2

f1

file2

file3

ddcbx@ddcbx-pc:~$ cat <file3 | ssh 208179@192.168.2.200 'grep c' >file2

208179@192.168.2.200's password:

ddcbx@ddcbx-pc:~$ cat file2

;ga HIG PHIBJOSKOF[JNISGMKPFI-HGBO Jnhuojnkp okhjnklmf;kojfmk;slvkogfsvd;lpjaibnokfl;vdpefkogjikwvd;alsc,lpfkomlv;dap[kegwnkvdlm;,cfpwkqojeIWNVKDSMCL;Kojvwnkldmakojbihtkmglp[ohjikmnly]