

Операційні системи

Лабораторна робота №2

Тема: «Основи сучасної термінальної
міжкомп'ютерної взаємодії»

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Мета роботи: придбання навичок із сучасної термінальної взаємодії між різними операційними системами на прикладі ОС Windows та ОС Linux.

1. Створіть в ОС Windows порожній текстовий файл з назвою, яка співпадає з вашим прізвищем та ім'ям в латиницю, наприклад, Blazhko_Oleksandr.txt
2. Запустіть в ОС Windows програму термінального рядка CMD
3. Встановіть програму віддаленого копіювання файлів PSCP.EXE, отримавши її через інтернет за відповідним посиланням.
4. Використовуючи програму PSCP.EXE, завантажте створений раніше файл у каталог з Git-репозиторієм, який раніше був створений в домашньому каталозі на віддаленому Linux-сервері.
5. Знаходячись в ОС Linux, в каталозі Git-репозиторію, зареєструйте завантажений раніше файл в репозиторії, виконавши команду: `git add Назва_файлу`
6. Зафіксуйте зміни в репозиторії, вказавши коментар до цих змін, виконавши команду: `git commit -m 'будь-який коментар про нову версію вмісту репозиторію'`
7. Перешліть зміни на віддалений GitHub-репозиторій, виконавши команду: `git push`
8. Зайдіть на <https://github.com>, перегляньте вміст віддаленого GitHub-репозиторію та переконайтеся, що зміни успішно виконано.

> 91.219.60.189 - PuTTY

login as: muradyan_volodimir

muradyan_volodimir@91.219.60.189's password:

Last login: Sun Mar 7 17:29:28 2021 from 188.130.177.58

[muradyan_volodimir@vpsj3Ieq ~]\$ whoami

muradyan_volodimir

[muradyan_volodimir@vpsj3Ieq ~]\$ who

```
grebenik_anzhelika pts/0      2021-03-09 13:48 (46.149.53.142)
polyanskiy_mikola pts/1      2021-03-09 10:41 (78.26.232.83)
lobko_daniil pts/2      2021-03-09 14:03 (78.26.152.200)
lobko_daniil pts/3      2021-03-09 13:51 (78.26.152.200)
muradyan_volodimir pts/4      2021-03-09 14:10 (188.130.177.58)
berislavskij_vladislav pts/5      2021-03-09 13:29 (188.163.101.205)
kovach_dmitro pts/6      2021-03-09 13:25 (188.130.176.50)
vyatkin_daniilo pts/7      2021-03-09 14:10 (88.155.67.3)
voyakovskij_dmitro pts/8      2021-03-09 12:19 (94.153.88.190)
harkevich_leonid pts/9      2021-03-09 11:31 (85.238.102.56)
tsigankova_anastasiya pts/10     2021-03-09 13:58 (91.202.108.69)
martinyuk_denis pts/11     2021-03-09 12:47 (83.142.111.219)
vyatkin_daniilo pts/12     2021-03-09 12:37 (88.155.67.3)
borovets_vladislav pts/13     2021-03-09 13:55 (188.163.101.134)
lobko_daniil pts/14     2021-03-09 13:17 (78.26.152.200)
bochkarova_karina pts/15     2021-03-09 13:57 (188.163.101.181)
kovach_dmitro pts/16     2021-03-09 13:58 (188.130.176.50)
kucherenko_maksim pts/17     2021-03-09 14:10 (user-89.32.infomir.com.ua)
kovach_dmitro pts/19     2021-03-09 13:19 (188.130.176.50)
zelinko_igor pts/20      2021-03-09 11:50 (79.140.6.238)
eliseev_daniilo pts/23     2021-03-09 13:27 (176-119-93-183.broadband.tenet.ode
ssa.ua)
```

[muradyan_volodimir@vpsj3Ieq ~]\$ w

14:12:32 up 21 days, 5:15, 21 users, load average: 0.16, 0.08, 0.06

USER	TTY	FROM	LOGIN@	IDLE	JCPU	PCPU	WHAT
grebenik	pts/0	46.149.53.142	13:48	1:04	0.01s	0.01s	-bash
polyansk	pts/1	78.26.232.83	10:41	7:28	0.11s	0.11s	-bash
lobko_da	pts/2	78.26.152.200	14:03	9:20	0.00s	0.00s	-bash
lobko_da	pts/3	78.26.152.200	13:51	15:12	0.01s	0.01s	-bash
muradyan	pts/4	188.130.177.58	14:10	0.00s	0.00s	0.00s	w
berislav	pts/5	188.163.101.205	13:29	35:04	0.03s	0.03s	-bash
kovach_d	pts/6	188.130.176.50	13:25	43:36	0.01s	0.01s	-bash
vyatkin_	pts/7	88.155.67.3	14:10	16.00s	0.00s	0.00s	-bash
voyakovs	pts/8	94.153.88.190	12:19	1:40m	0.01s	0.01s	-bash
harkevic	pts/9	85.238.102.56	11:31	2:04m	0.04s	0.04s	-bash
tsiganko	pts/10	91.202.108.69	13:58	5:20	0.02s	0.00s	write bochkarov
martinyu	pts/11	83.142.111.219	12:47	1:23m	0.01s	0.01s	-bash
vyatkin_	pts/12	88.155.67.3	12:37	26:08	0.02s	0.02s	-bash
borovets	pts/13	188.163.101.134	13:55	17:14	0.00s	0.00s	-bash
lobko_da	pts/14	78.26.152.200	13:17	35:20	0.05s	0.05s	-bash
bochkaro	pts/15	188.163.101.181	13:57	7:20	0.01s	0.01s	-bash
kovach_d	pts/16	188.130.176.50	13:58	2:08	0.04s	0.04s	-bash
kucheren	pts/17	user-89.32.infom	14:10	1:48	0.00s	0.00s	-bash
kovach_d	pts/19	188.130.176.50	13:19	52:00	0.00s	0.00s	-bash
zelinko_	pts/20	79.140.6.238	11:50	1:33m	0.23s	0.23s	-bash
eliseev_	pts/23	176-119-93-183.b	13:27	8:24	0.09s	0.09s	-bash

[muradyan_volodimir@vpsj3Ieq ~]\$ pwd

/home/muradyan_volodimir

[muradyan_volodimir@vpsj3Ieq ~]\$ cd /etc

[muradyan_volodimir@vpsj3Ieq etc]\$ ls

adjtime	java	python
aliases	joe	rc0.d
aliases.db	jvm	rc1.d
alternatives	jvm-common	rc2.d
anacrontab	kdump.conf	rc3.d
asound.conf	kernel	rc4.d
audit	krb5.conf	rc5.d
audit	krb5.conf.d	rc6.d
bash_completion.d	kshrc	rc.d
bashrc	ld.so.cache	rc.local
binfmt.d	ld.so.conf	redhat-release
centos-release	ld.so.conf.d	relayhosts
centos-release-upstream	libaudit.conf	request-key.conf
chkconfig.d	libnl	request-key.d
chrony.conf	libuser.conf	resolv.conf
chrony.keys	localdomains	rndc.key
cron.d	locale.conf	rpc
cron.daily	localtime	rpm
cron.deny	login.defs	rsyncd.conf
cron.hourly	logrotate.conf	rsyslog.conf
cron.monthly	logrotate.d	rsyslog.d
crontab	lynx.cfg	rtab

> 91.219.60.189 - PuTTY

```
cron.weekly
crypttab
csh.cshrc
csh.login
dbus-1
dconf
default
depmod.d
dhcp
DIR_COLORS
DIR_COLORS.256color
DIR_COLORS.lightbgcolor
dracut.conf
dracut.conf.d
e2fsck.conf
egl
environment
ethertypes
exim
exports
exports.d
favicon.png
filesystems
firewalld
fonts
fstab
gcrypt
GeoIP.conf
glvnd
gnupg
GREP_COLORS
groff
group
group-
grub2.cfg
grub.d
gshadow
gshadow-
gss
gssproxy
host.conf
hostname
hosts
hosts~
hosts.allow
hosts.deny
idmapd.conf
init.d
inittab
inputrc
iproute2
issue
issue.net
[muradyan_volodimir@vpsj3Ieq etc]$ less
Missing filename ("less --help" for help)
[muradyan_volodimir@vpsj3Ieq etc]$ less group
[muradyan_volodimir@vpsj3Ieq etc]$ cd
[muradyan_volodimir@vpsj3Ieq ~]$ pwd
/home/muradyan_volodimir
[muradyan_volodimir@vpsj3Ieq ~]$ pushd /etc
/etc ~
[muradyan_volodimir@vpsj3Ieq etc]$ popd
~
[muradyan_volodimir@vpsj3Ieq ~]$ cd :
-bash: cd: :: No such file or directory
[muradyan_volodimir@vpsj3Ieq ~]$ cd ..
[muradyan_volodimir@vpsj3Ieq home]$ ls
ahmadi_muhamad      kelembet_evgen      polovenko_illya
ahmadi_umran         koldunova_anastasiya polyanskiy_mikola
alekseeva_alina     koldunova_tetyana   prihodko_egor
arestov_yaroslav     kolesnik_kirilo     romanenko_oleksandr
babich_artem         kostetskij_bogdan   shapovalova_viktoriya
baranyuk_dmitro      kovach_dmitro       sherbakov_artur
barkar_karina        krutienko_andriy    sherbakov_georgij
belobrov_artur       kruts_viktor        shostak_roman
berislavskij_vladislav kucherenko_maksim  shulyak_mikola
bezhanishvili_levan  kurgan_roman        sidelnikov_mikita
bochkarova_karina    li_choan            sinyakov_igor
lynx.lss
lynx-site.cfg
machine-id
magic
mail
mail.rc
makedumpfile.conf.sample
man_db.conf
maven
mc
mke2fs.conf
modprobe.d
modules-load.d
motd
mtab
__my.cnf
my.cnf
my.cnf.d
named
named.conf
named.iscdlv.key
named.rfc1912.zones
named.root.key
nanorc
netconfig
NetworkManager
networks
nfs.conf
nfsmount.conf
nsswitch.conf
nsswitch.conf.bak
nsswitch.conf.rpmnew
openldap
opt
oraInst.loc
oratab
os-release
pam.d
passwd
passwd~
passwd-
pkcs11
pki
plymouth
pm
polkit-1
popt.d
ppp
prelink.conf.d
printcap
profile
profile.d
protocols
rwtab.d
sas12
securetty
security
selinux
services
sestatus.conf
sgml
shadow
shadow-
shells
shells.rpmnew
skel
smartmontools
smrsh
ssh
ssl
statetab
statetab.d
subgid
subgid-
subuid
subuid-
sudo.conf
sudoers
sudoers.d
sudo-ldap.conf
sysconfig
sysctl.conf
sysctl.d
systemd
system-release
system-release-cpe
tcsd.conf
terminfo
tmpfiles.d
trusted-key.key
tuned
udev
vconsole.conf
virc
vmail
wgetrc
wpa_supplicant
x11
xdg
xinetd.d
xml
yum
yum.conf
yum.repos.d
```

91.219.60.189 - PuTTY

```
bodnar_arsenij      li_chuan            sirenko_mariya
bodnar_illya        lihmanov_artem      siyash_andrij
bogachik_egor       lobko_daniil        soft-1
bojchuk_oleksandr  loboda_oleksandra   sokolov_oleksij
borovets_vladislav lukashak_daniil     stepanenko_gleb
chan_van            magdenko_mihajlo    strinaglyuk_ivan
cheremnih_grigoriy maksimenko_andrij    sultanov_artem
chobotar_oleksandra malofeev_denis       svetashov_danilo
dang_din            markovskij_danilo    tarasov_daniil
demtsun_andrij      martinyuk_denis      tokarev_oleksandr
dorozhkin_mihajlo   matnenko_stanislaw  tomchuk_viktoriya
eliseev_danilo      melnichenko_egor     topuzanov_bogdan
ershov_oleksandr    muradyan_volodimir  tretyakov_oleksandr
evchev_denis        myagkih_arina        tsigankova_anastasiya
golovanchuk_mikola nesterenko_mikola    tsickov_ruslan
goshurenko_volodimir nezhevih_mariya      uzun_mihajlo
grebenik_anzhelika nguen_trong           veselkova_anna
grishenko_oleksandra nikolaenko_sergij    voyakovskij_dmitro
guda_liliya         nosov_andrij         vyatkin_daniil
harkevich_leonid    oracle               yanushkevich_sergij
kalarashan_kostyantyn ozarchuk_anna        yufitenko_andrij
kalina_marina       panfilov_kristian     zagorujko_maksim
karaulnij_daniil    pargalova_sabina     zelinko_igor
katrich_evgen       perets_sergij         zijodullov_ehson
kebab_dmitro        plaksivij_danilo
```

```
[muradyan_volodimir@vpsj3ieq home]$ passwd
Changing password for user muradyan_volodimir.
Changing password for muradyan_volodimir.
(current) UNIX password:
```

```
New password:
BAD PASSWORD: The password is too similar to the old one
New password:
```

```
Retype new password:
passwd: all authentication tokens updated successfully.
```

```
[muradyan_volodimir@vpsj3ieq home]$ write
Message from kucherenko_maksim@vpsj3ieq.s-host.com.ua on pts/17 at 14:21 ...
\320\277\321\200\320\270\320\262\320\265\321\202, \320\262\320\276\320\262\320\260\320\277\321\200\320\270\320\262\320\265\321\202
60
G
```

Glushko

```
-bash: writecGlushko: command not found
```

```
[muradyan_volodimir@vpsj3ieq home]$ \320\262\320\276\320\262\320\260, \320\277\321\200\320\270\320\262\320\265\321\202
hi
```

```
-bash: hi: command not found
```

```
[muradyan_volodimir@vpsj3ieq home]$ write kucherenkoEOF
[muradyan_volodimir@vpsj3ieq home]$ write kucherenko_maksim
hi
```

Message from kucherenko_maksim@vpsj3ieq.s-host.com.ua on pts/17 at 14:24 ...

```
hello
how are youhow r u
clear
EOF
```

Message from kucherenko_maksim@vpsj3ieq.s-host.com.ua on pts/17 at 14:25 ...

```
hello
hi
bye
good bye
EOF
```

```
^C[muradyan_volodimir@vpsj3ieq home]$ cd
[muradyan_volodimir@vpsj3ieq ~]$ git config --global user.name "Vladimir_Muradyan"
[muradyan_volodimir@vpsj3ieq ~]$ git config --global user.email myradianvol@gmail.com
[muradyan_volodimir@vpsj3ieq ~]$ git config --global init.defaultBranch main
[muradyan_volodimir@vpsj3ieq ~]$ git init
Initialized empty Git repository in /home/muradyan_volodimir/.git/
[muradyan_volodimir@vpsj3ieq ~]$ git clone https://github.com/MadMaxx05/Operating-System.-Laboratory-work-1.git
Cloning into 'operating-system.-Laboratory-work-1'...
remote: Enumerating objects: 11, done.
remote: Counting objects: 100% (11/11), done.
remote: Compressing objects: 100% (7/7), done.
remote: Total 11 (delta 0), reused 3 (delta 0), pack-reused 0
Unpacking objects: 100% (11/11), done.
[muradyan_volodimir@vpsj3ieq ~]$ ls
operating-system.-Laboratory-work-1
[muradyan_volodimir@vpsj3ieq ~]$
Using username "muradyan_volodimir".
muradyan_volodimir@91.219.60.189's password:
```

```

91.219.60.189 - PuTTY
goshurenko_volodimir    nezhivih_mariya        uzun_mihajlo
grebenik_anzhelika       nguen_trong            veselkova_anna
grishenko_oleksandra     nikolaenko_sergij      voyakovskij_dmitro
guda_liliya              nosov_andrij           vyatkin_daniilo
harkevich_leonid         oracle                 yanushkevich_sergij
kalarashan_kostyantyn   ozarchuk_anna          yufitenko_andrij
kalina_marina            panfilov_kristian      zagorujko_maksim
karaulinij_daniil        pargalova_sabina       zelinko_igor
katrich_evgen            perets_sergij          zijodullov_ehson
kebab_dmitro             plaksivij_daniilo
[muradyan_volodimir@vpsj3Ieq home]$ passwd
Changing password for user muradyan_volodimir.
Changing password for muradyan_volodimir.
(current) UNIX password:
New password:
BAD PASSWORD: The password is too similar to the old one
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[muradyan_volodimir@vpsj3Ieq home]$ write
Message from kucherenko_maksim@vpsj3Ieq.s-host.com.ua on pts/17 at 14:21 ...
\320\277\321\200\320\270\320\262\320\265\321\202, \320\262\320\276\320\262\320\2
60
G
Glushko
-bash: writeG: command not found
[muradyan_volodimir@vpsj3Ieq home]$ \320\262\320\276\320\262\320\260, \320\277\3
21\200\320\270\320\262\320\265\321\202
hi
-bash: hi: command not found
[muradyan_volodimir@vpsj3Ieq home]$ write kucherenkoEOF
[muradyan_volodimir@vpsj3Ieq home]$ write kucherenko_maksim
hi

Message from kucherenko_maksim@vpsj3Ieq.s-host.com.ua on pts/17 at 14:24 ...
hello
how are youhow r u
clear
EOF

Message from kucherenko_maksim@vpsj3Ieq.s-host.com.ua on pts/17 at 14:25 ...
hello
hi
bye
good bye
EOF
^C[muradyan_volodimir@vpsj3Ieq home]$ cd
[muradyan_volodimir@vpsj3Ieq ~]$ git config --global user.name "vladimir_Muradyan"
[muradyan_volodimir@vpsj3Ieq ~]$ git config --global user.email myradianvol@gmail.com
[muradyan_volodimir@vpsj3Ieq ~]$ git config --global init.defaultBranch main
[muradyan_volodimir@vpsj3Ieq ~]$ git init
Initialized empty Git repository in /home/muradyan_volodimir/.git/
[muradyan_volodimir@vpsj3Ieq ~]$ git clone https://github.com/MadMaxx05/operating-System.-Laboratory-work-1.git
Cloning into 'operating-System.-Laboratory-work-1'...
remote: Enumerating objects: 11, done.
remote: Counting objects: 100% (11/11), done.
remote: Compressing objects: 100% (7/7), done.
remote: Total 11 (delta 0), reused 3 (delta 0), pack-reused 0
Unpacking objects: 100% (11/11), done.
[muradyan_volodimir@vpsj3Ieq ~]$ ls
operating-System.-Laboratory-work-1
[muradyan_volodimir@vpsj3Ieq ~]$
[✗] Using username "muradyan_volodimir".
[✗] muradyan_volodimir@91.219.60.189's password:
[✗] Send automatic password
[✗] Access denied
[✗] muradyan_volodimir@91.219.60.189's password:
[✗] Access denied
[✗] muradyan_volodimir@91.219.60.189's password:
[✗] Access denied
[✗] muradyan_volodimir@91.219.60.189's password:
[✗] Access denied
[✗] muradyan_volodimir@91.219.60.189's password:
[✗] Using username "muradyan_volodimir".
[✗] muradyan_volodimir@91.219.60.189's password:
[✗] Access denied
[✗] muradyan_volodimir@91.219.60.189's password:
[✗] Using username "muradyan_volodimir".
[✗] muradyan_volodimir@91.219.60.189's password:

```

```

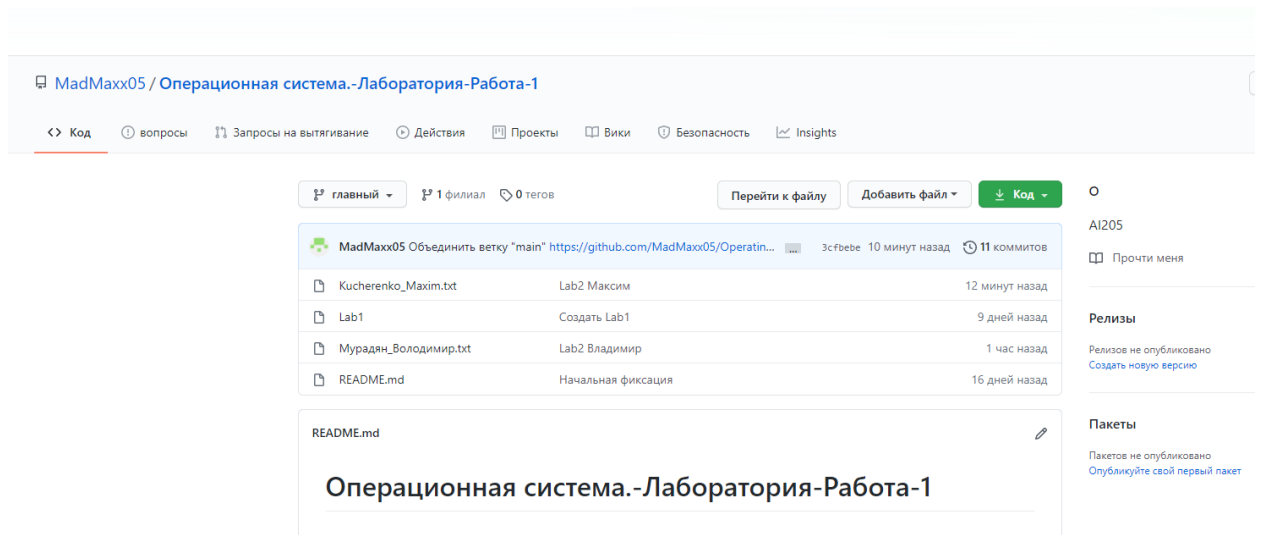
Командная строка
Microsoft Windows [Version 10.0.18363.418]
(c) Корпорация Майкрософт (Microsoft Corporation), 2019. Все права защищены.

C:\Users\User>cd Desktop

C:\Users\User\Desktop>powershell.exe -c "ssh Muradyan_Volodimir.txt kucherenko_maksim@91.219.60.189:/home/kucherenko_maksim
kucherenko_maksim@91.219.60.189's password:"

C:\Users\User\Desktop>

```

Я трохи геній. Змінив пароль та забув його, тому довелося використати аккаунт сокомандника.

Висновок: впродовж цієї роботи ми придбали навички із сучасної термінальної взаємодії між різними операційними системами на прикладі ОС Windows та ОС Linux.