

ДЗ к уроку 2

The screenshot displays the Oracle VM VirtualBox Manager window. At the top, the title bar reads "Oracle VM VirtualBox Менеджер". Below it, a menu bar contains "Файл", "Машина", and "Справка". The main interface is divided into several sections:

- Инструменты (Tools):** Located at the top left, it includes icons for "Создать" (Create), "Настроить" (Settings), "Сбросить" (Reset), and "Показать" (Show).
- Virtual Machine List:** A list of three virtual machines is shown on the left:
 - server1:** Status "Работает" (Running).
 - server2:** Status "Работает" (Running).
 - server3:** Status "Работает" (Running), highlighted in blue.
- Configuration Details (server3):** The right pane shows the settings for the selected VM, "server3". The settings are organized into categories:
 - Общие (General):** Name "server3", OS "Debian (64-bit)".
 - Система (System):** RAM "5000 МБ", Processors "6", Boot order "Гибкий диск, Оптический диск, Жёсткий диск", EFI "Включено", Acceleration "VT-x/AMD-V, Nested Paging, PAE/NX, Паравиртуализация KVM".
 - Дисплей (Display):** Video memory "16 МБ", Graphics controller "VMSVGA", Server remote display "Выключен", Capture "Выключена".
 - Носители (Storage):** Controller "IDE", Secondary master IDE "[Оптический привод] Пусто", Controller "SATA", SATA port 0 "server3.vdi (Обычный, 8,00 ГБ)".
 - Аудио (Audio):** Status "Выключено".
 - Сеть (Network):** Adapter 1 "Intel PRO/1000 MT Desktop (Сетевой мост, 'Realtek PCIe GbE Family Controller')", Adapter 2 "Intel PRO/1000 MT Desktop (Внутренняя сеть, '23-0')".
- Пreview (Preview):** A small window on the right shows a terminal window with a black background and green text, likely a command prompt or shell.

```
root@server1:~# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:50:25:ac brd ff:ff:ff:ff:ff:ff
    inet 10.10.1.1/24 brd 10.10.1.255 scope global dynamic enp0s3
        valid_lft 427596sec preferred_lft 427596sec
    inet6 fe80::a00:27ff:fe50:25ac/64 scope link
        valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:50:25:ac brd ff:ff:ff:ff:ff:ff
    inet 192.168.12.1/24 brd 192.168.12.255 scope global enp0s8
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe50:25ac/64 scope link
        valid_lft forever preferred_lft forever
4: dummy0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state DOWN group default qlen 1000
    link/ether 08:00:27:00:00:00 brd ff:ff:ff:ff:ff:ff
5: dummy0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UNKNOWN group default qlen 1000
    link/ether ba:aa:aa:aa:aa:aa:aa brd ff:ff:ff:ff:ff:ff
    inet 3.3.3.3/32 brd 3.3.3.3 scope global dummy0
        valid_lft forever preferred_lft forever
    inet6 fe80::baaf:1aff:feaa:4810/64 scope link
        valid_lft forever preferred_lft forever
root@server1:~#
```

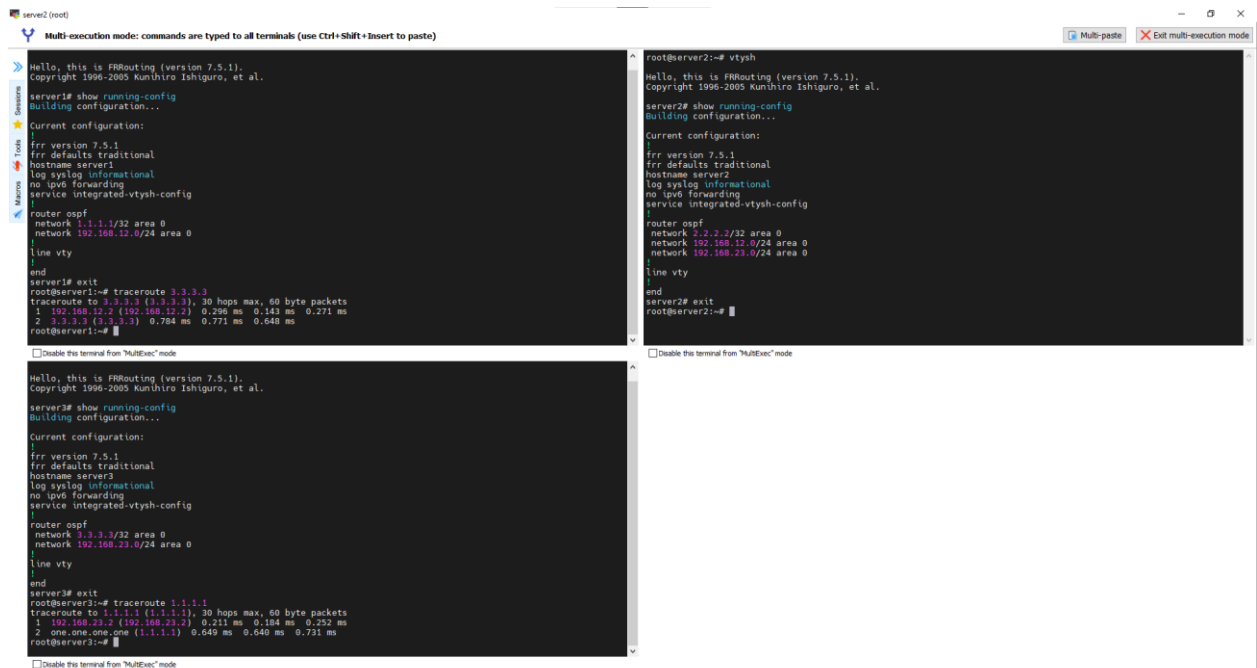
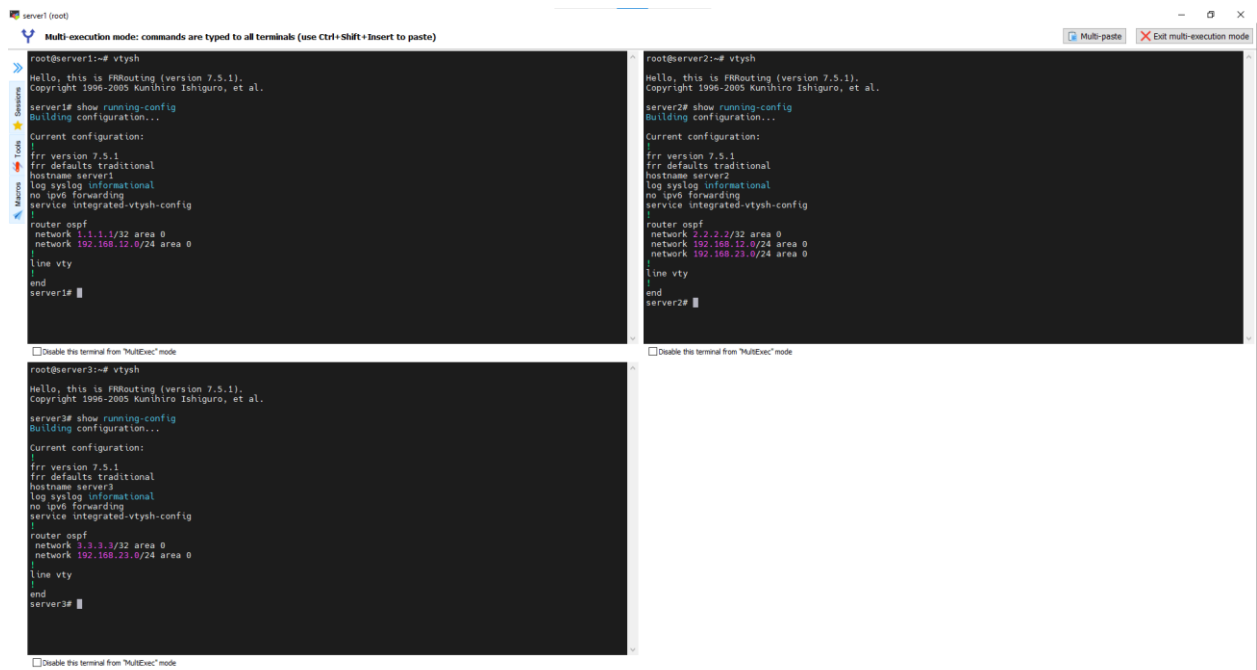
☐ Disable this terminal from 'NtExec' mode

```
root@server3:~# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:50:25:52 brd ff:ff:ff:ff:ff:ff
    inet 10.10.1.1/24 brd 10.10.1.255 scope global dynamic enp0s3
        valid_lft 427256sec preferred_lft 427256sec
    inet6 fe80::a00:27ff:fe50:2552/64 scope link
        valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:42:ac:54 brd ff:ff:ff:ff:ff:ff
    inet 192.168.23.1/24 brd 192.168.23.255 scope global enp0s8
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe42:ac54/64 scope link
        valid_lft forever preferred_lft forever
4: dummy0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UNKNOWN group default qlen 1000
    link/ether ba:aa:aa:aa:aa:aa:aa brd ff:ff:ff:ff:ff:ff
    inet 3.3.3.3/32 brd 3.3.3.3 scope global dummy0
        valid_lft forever preferred_lft forever
    inet6 fe80::baaf:1aff:feaa:4810/64 scope link
        valid_lft forever preferred_lft forever
root@server3:~#
```

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```
root@server2:~# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:50:25:52 brd ff:ff:ff:ff:ff:ff
    inet 10.10.1.1/24 brd 10.10.1.255 scope global dynamic enp0s3
        valid_lft 427256sec preferred_lft 427256sec
    inet6 fe80::a00:27ff:fe50:2552/64 scope link
        valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:42:ac:54 brd ff:ff:ff:ff:ff:ff
    inet 192.168.23.1/24 brd 192.168.23.255 scope global enp0s8
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe42:ac54/64 scope link
        valid_lft forever preferred_lft forever
4: dummy0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UNKNOWN group default qlen 1000
    link/ether ba:aa:aa:aa:aa:aa:aa brd ff:ff:ff:ff:ff:ff
    inet 3.3.3.3/32 brd 3.3.3.3 scope global dummy0
        valid_lft forever preferred_lft forever
    inet6 fe80::baaf:1aff:feaa:4810/64 scope link
        valid_lft forever preferred_lft forever
root@server2:~#
```

☐ Disable this terminal from 'NtExec' mode




```
server1[root]
Terminal Sessions View X server Tools Settings Macros Help
Session Servers Tools Games Sessions View Split MUXExec Tuning Packages Settings Help
Quick connect...
write:      ops/s      kb/s      kb/op      retrans      avg RTT (ms)      avg exe (ms)
root@server1:~# cat /etc/fstab
# /etc/fstab: static file system information.
#
# Use 'blkid' to print the universally unique identifier for a
# device; this may be used with UUID= as a more robust way to name devices
# that works even if disks are added and removed. See fstab(5).
#
# system generates mount units based on this file, see systemd.mount(5).
# Please run 'systemctl daemon-reload' after making changes here.
#
#-file system<mount point> <type> <options> <dump> <pass>
# / was on /dev/sda2 during installation
UUID=5a6b5929-966c-4d99-a1e2-dbb74744bd / ext4 errors=remount-ro 0 1
# /boot/efi was on /dev/sda1 during installation
UUID=0E12-7A90 /boot/efi vfat umask=0077 0 1
# swap was on /dev/sda3 during installation
UUID=749687b-87a4-4703-a4a0-2b2b3b980a5f none swap sw 0 0
/dev/sr0 /media/cdrom0 udf,iso9660 user,noauto 0 0
192.168.23.3:/mnt/1 /root/nfs1 nfs4 rw,async
192.168.23.3:/mnt/nfs_2 /root/nfs2 nfs4 rw,async
root@server1:~# ls /root/
bash_history .history .lr nfs1/ .profile
.bashrc .local/ nfs2/ .xauthority
root@server1:~# ls /root/nfs1
1
root@server1:~# mount -l
sysfs on /sys type sysfs (rw,nosuid,nodev,noexec,relatime)
proc on /proc type proc (rw,nosuid,nodev,noexec,relatime)
udev on /dev type devtmpfs (rw,nosuid,relatime,size=2441296k,nr_inodes=610324,mode=755)
devpts on /dev/pts type devpts (rw,nosuid,noexec,relatime,gid=5,mode=620,ptmxmode=000)
tmpfs on /run type tmpfs (rw,nosuid,nodev,noexec,relatime,size=491516k,mode=755)
/dev/sda2 on / type ext4 (rw,relatime,errors=remount-ro)
securityfs on /sys/kernel/security type securityfs (rw,nosuid,nodev,noexec,relatime)
tmpfs on /dev/shm type tmpfs (rw,nosuid,nodev)
tmpfs on /run/lock type tmpfs (rw,nosuid,nodev,noexec,relatime,size=5120k)
cgroup2 on /sys/fs/cgroup type cgroup2 (rw,nosuid,nodev,noexec,relatime,nsdelegate,memory_recursiveprot)
pstore on /sys/fs/pstore type pstore (rw,nosuid,nodev,noexec,relatime)
efivarfs on /sys/firmware/efi/efivars type efivarfs (rw,nosuid,nodev,noexec,relatime)
none on /sys/fs/bpf type bpf (rw,nosuid,nodev,noexec,relatime,mode=700)
systemd-1 on /proc/sys/fs/binfmt_misc type binfmt_misc (rw,relatime,fd=30,pprop1,timeout=0,minproton=5,maxproton=5,direct,pipe_unon13617)
debugfs on /sys/kernel/debug type debugfs (rw,nosuid,nodev,noexec,relatime)
tracesfs on /sys/kernel/tracing type tracesfs (rw,nosuid,nodev,noexec,relatime)
mqueue on /dev/mqueue type mqueue (rw,nosuid,nodev,noexec,relatime)
hugetlbfs on /dev/hugetlbfs type hugetlbfs (rw,relatime,pagesize=2M)
configfs on /sys/kernel/config type configfs (rw,nosuid,nodev,noexec,relatime)
fusectl on /sys/fs/fuse/connections type fusectl (rw,nosuid,nodev,noexec,relatime)
sunrpc on /run/rpc-exports type rpc-exports (rw,relatime)
/dev/sda1 on /boot/efi type vfat (rw,relatime,fmask=0077,dmask=0077,codepage=437,iocharset=ascii,shortname=mixed,utf8,errors=remount-ro)
192.168.23.3:/mnt/nfs_2 on /root/nfs2 type nfs4 (rw,relatime,vers=4.2,rsize=1048576,wsz=1048576,namlen=255,hard,proto=tcp,timeo=600,retrans=2,sec=sys,clientaddr=192.168.1.241,local_lock=none,addr=192.168.23.3)
192.168.23.3:/mnt/nfs_1 on /root/nfs1 type nfs4 (rw,relatime,vers=4.2,rsize=1048576,wsz=1048576,namlen=255,hard,proto=tcp,timeo=600,retrans=2,sec=sys,clientaddr=192.168.1.241,local_lock=none,addr=192.168.23.3)
tmpfs on /run/user/0 type tmpfs (rw,nosuid,nodev,relatime,size=492512k,nr_inodes=122378,mode=700)
binfmt_misc on /proc/sys/fs/binfmt_misc type binfmt_misc (rw,nosuid,nodev,noexec,relatime)
root@server1:~#
```