

# Презентация по лабораторной работе №1

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## Цель работы

Целью данной работы является приобретение практических навыков установки операционной системы на виртуальную машину, настройки минимально необходимых для дальнейшей работы сервисов.

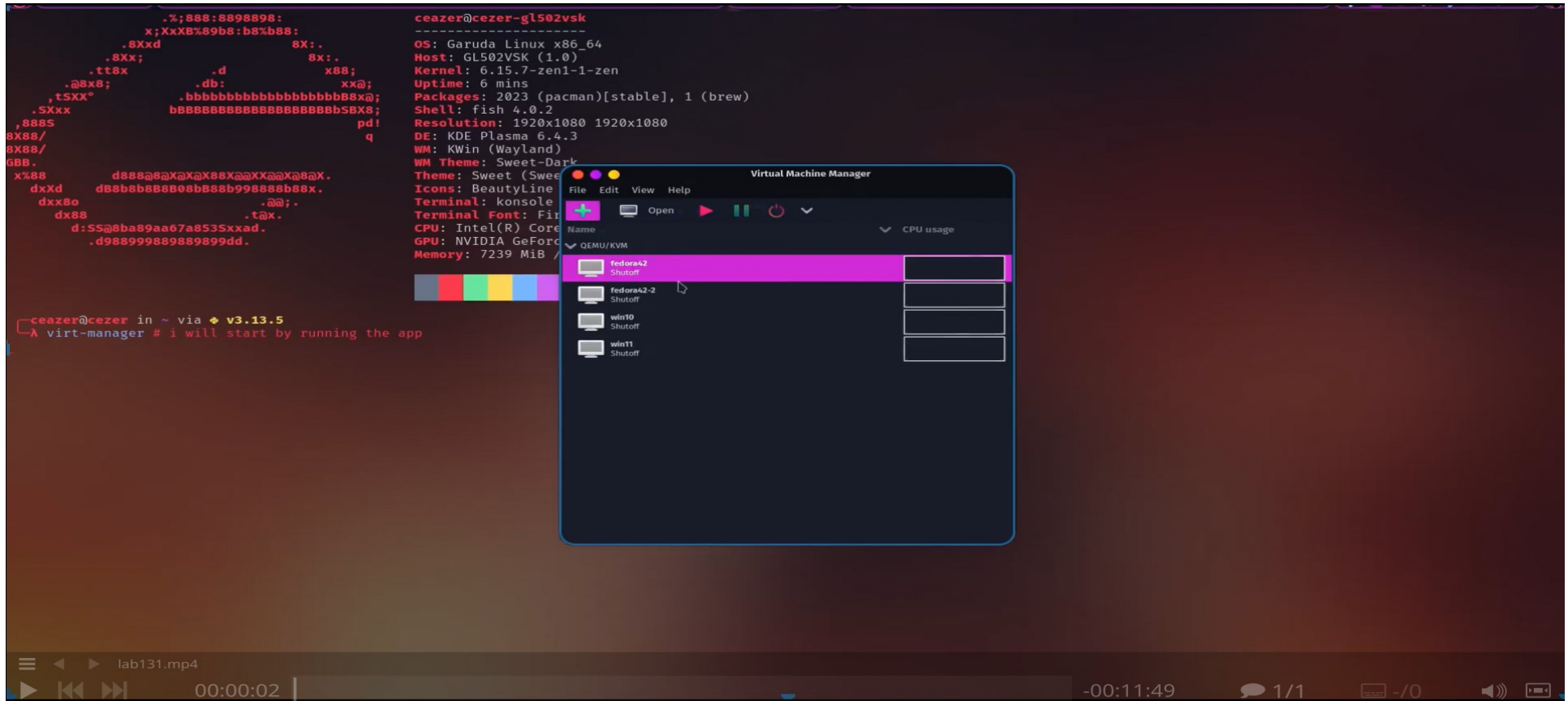
## Задание

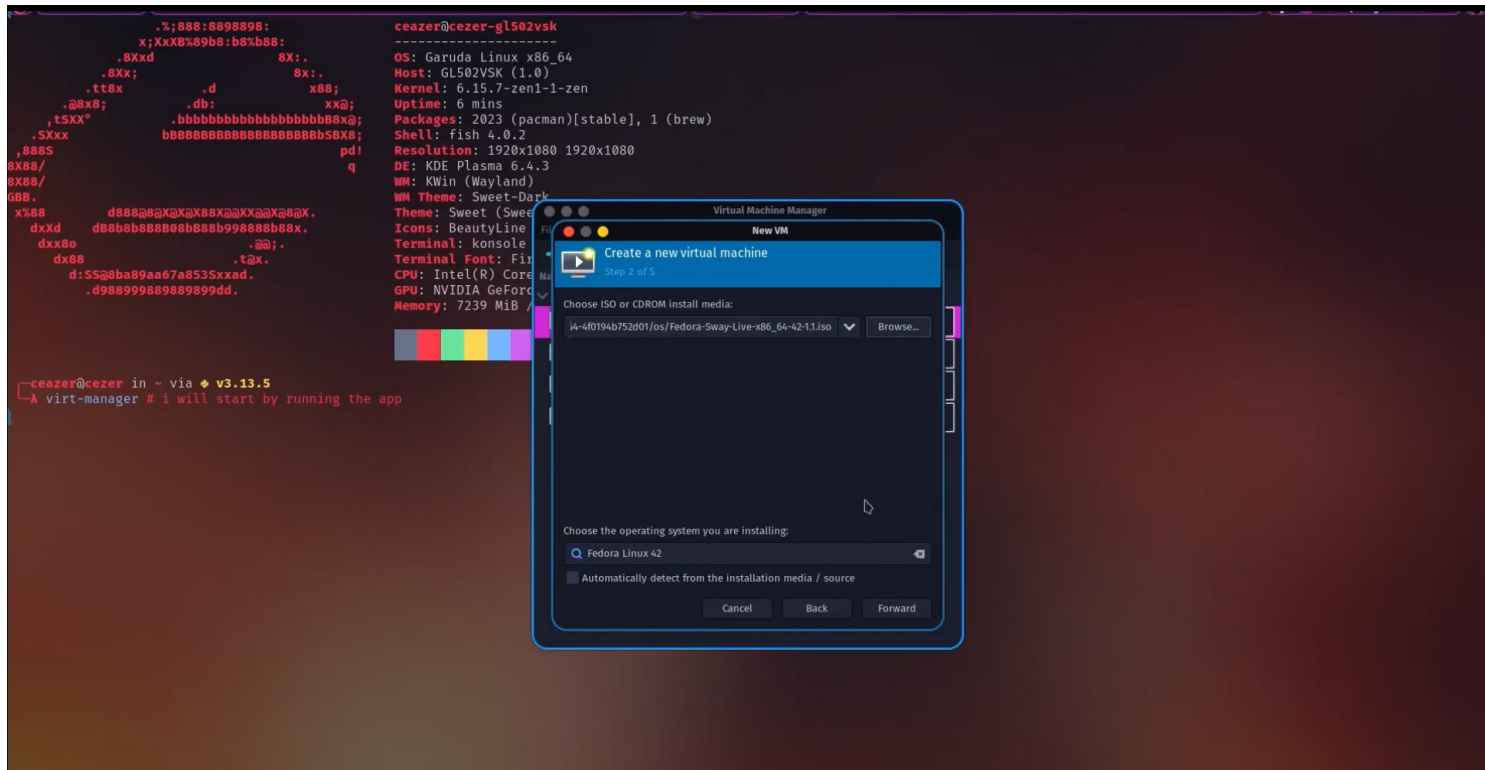
1. Создание виртуальной машины
2. Установка операционной системы
3. Установка драйверов для VirtualBox
4. Настройка раскладки клавиатуры

# Выполнение лабораторной работы

## - Создание виртуальной машины

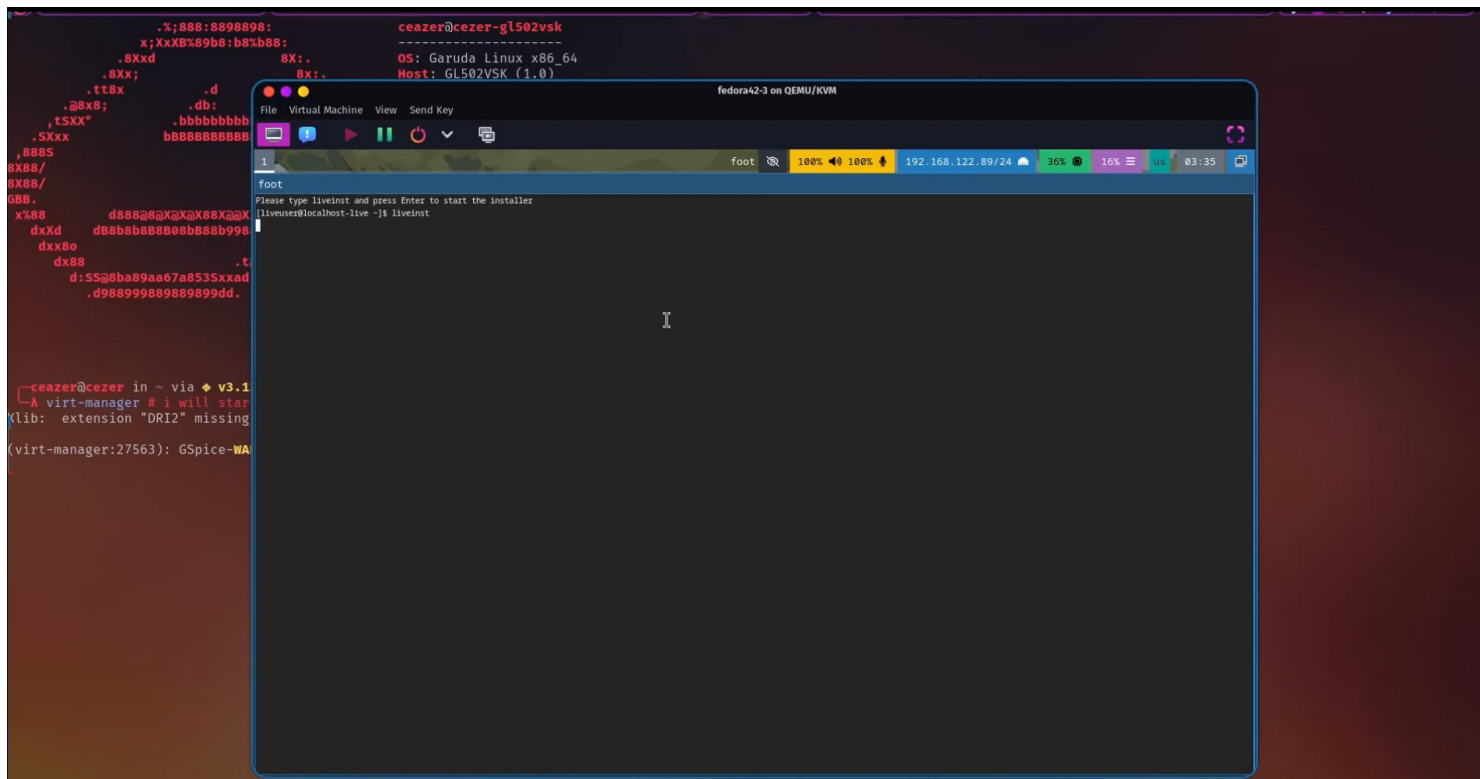
Запускаю VirtualBox и создаю новую виртуальную машину с именем "Fedora 42". Выбираю тип операционной системы "Linux" и версию "Fedora 42(64-bit)". Задаю 4049 МБ оперативной памяти и 65 ГБ дискового пространства.

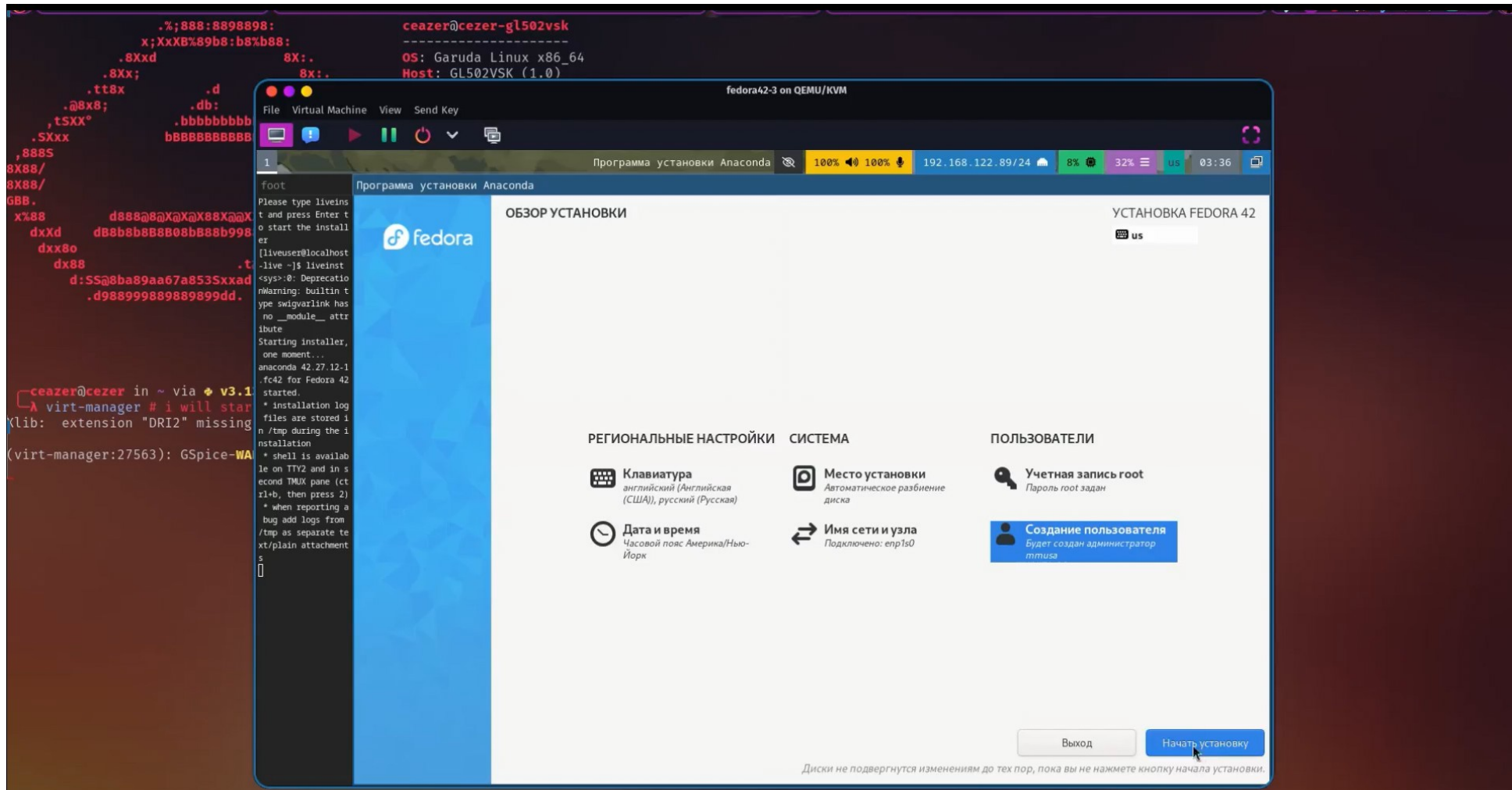




## - Установка операционной системы

Запускаю виртуальную машину и запускаю установку операционной системы Fedora 42. Выбираю язык интерфейса и перехожу к настройкам установки операционной системы.





## - Установка драйверов для VirtualBox

после завершения загрузки я загрузил необходимые драйверы.

```
[125/144] Установка gettext-0.19.1-2.fc42.x86_64 100% | 33.4 MiB/s | 3.2 MiB | 00m00s
[126/144] Установка apr-util-ldb-0:1.6.3-22.fc42.x86_64 100% | 716.0 KiB/s | 15.0 KiB | 00m00s
[127/144] Установка apr-util-openssl-0:1.6.3-22.fc42.x86_64 100% | 1.0 MiB/s | 23.2 KiB | 00m00s
[128/144] Установка perl-NDBM_File-0:1.17-519.fc42.x86_64 100% | 1.3 MiB/s | 29.6 KiB | 00m00s
[129/144] Установка diffstat-0:1.67-2.fc42.x86_64 100% | 1.3 MiB/s | 82.1 KiB | 00m00s
[130/144] Удаление elfutils-0:0.192-9.fc42.x86_64 100% | 1.2 KiB/s | 67.0 B | 00m00s
[131/144] Удаление elfutils-debuginfod-client-0:0.192-9.fc42.x86_64 100% | 428.0 B/s | 15.0 B | 00m00s
[132/144] Удаление elfutils-libs-0:0.192-9.fc42.x86_64 100% | 305.0 B/s | 11.0 B | 00m00s
[133/144] Удаление xz-1:5.6.3-3.fc42.x86_64 100% | 2.1 KiB/s | 124.0 B | 00m00s
[134/144] Удаление cpp-0:15.0.1-0.11.fc42.x86_64 100% | 925.0 B/s | 37.0 B | 00m00s
[135/144] Удаление xz-libs-1:5.6.3-3.fc42.x86_64 100% | 333.0 B/s | 7.0 B | 00m00s
[136/144] Удаление elfutils-libelf-0:0.192-9.fc42.x86_64 100% | 600.0 B/s | 15.0 B | 00m00s
[137/144] Удаление libxcrypt-0:4.4.38-6.fc42.x86_64 100% | 782.0 B/s | 18.0 B | 00m00s
[138/144] Удаление libgomp-0:15.0.1-0.11.fc42.x86_64 100% | 450.0 B/s | 9.0 B | 00m00s
[139/144] Удаление zlib-ng-compat-0:2.2.4-3.fc42.x86_64 100% | 121.0 B/s | 5.0 B | 00m00s
[140/144] Удаление glibc-0:2.41-1.fc42.x86_64 100% | 1.9 KiB/s | 102.0 B | 00m00s
[141/144] Удаление glibc-all-langpacks-0:2.41-1.fc42.x86_64 100% | 1.8 KiB/s | 41.0 B | 00m00s
[142/144] Удаление glibc-gconv-extra-0:2.41-1.fc42.x86_64 100% | 7.2 KiB/s | 637.0 B | 00m00s
[143/144] Удаление glibc-common-0:2.41-1.fc42.x86_64 100% | 1.1 KiB/s | 50.0 B | 00m00s
[144/144] Удаление libgcc-0:15.0.1-0.11.fc42.x86_64 100% | 4.0 B/s | 11.0 B | 00m03s
Завершено!
[root@localhost-live ~]# sudo dnf -y install
```

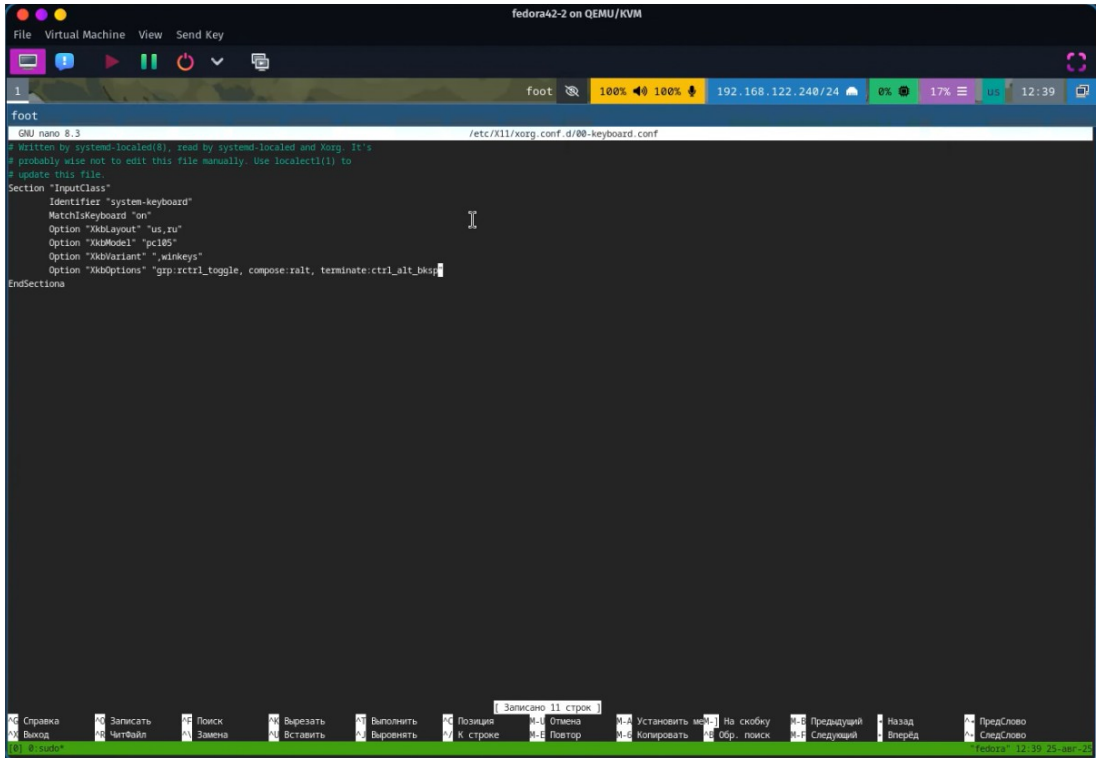
|                          |  |            |             |           |        |
|--------------------------|--|------------|-------------|-----------|--------|
| 1                        | foot   | 100%       | 187.2 KiB/s | 147.2 KiB | 00m01s |
| 245/4614                 | texlive-zootaxa-bst-11:svn50619-76.fc42.noarch             | 100%       | 244.1 KiB/s | 98.4 KiB  | 00m00s |
| 246/4614                 | texlive-bibtex8-11:svn66186-89.fc42.x86_64                 | 100%       | 184.3 KiB/s | 39.4 KiB  | 00m00s |
| 247/4614                 | texlive-bundledoc-11:svn64620-89.fc42.noarch               | 100%       | 221.8 KiB/s | 132.6 KiB | 00m01s |
| 248/4614                 | texlive-bibtexu-11:svn66186-89.fc42.x86_64                 | 100%       | 650.0 KiB/s | 371.1 KiB | 00m01s |
| 249/4614                 | texlive-checklistings-11:svn38300-89.fc42.noarch           | 100%       | 924.2 KiB/s | 403.9 KiB | 00m00s |
| 250/4614                 | texlive-chktex-11:svn64797-89.fc42.x86_64                  | 100%       | 931.1 KiB/s | 203.0 KiB | 00m00s |
| 251/4614                 | texlive-clojure-pamphlet-11:svn60981-89.fc42.noarch        | 100%       | 253.1 KiB/s | 313.6 KiB | 00m01s |
| 252/4614                 | texlive-chklref-11:svn52649-89.fc42.noarch                 | 100%       | 1.4 MiB/s   | 405.2 KiB | 00m00s |
| 253/4614                 | texlive-cluttex-11:svn60964-89.fc42.noarch                 | 100%       | 170.9 KiB/s | 54.7 KiB  | 00m00s |
| 254/4614                 | texlive-ctan-o-mat-11:svn51578-89.fc42.noarch              | 100%       | 426.3 KiB/s | 235.3 KiB | 00m01s |
| 255/4614                 | texlive-ctan_chk-doc-11:svn36304.1.0-76.fc42.noarch        | 100%       | 113.6 KiB/s | 51.9 KiB  | 00m00s |
| 256/4614                 | texlive-ctanbib-11:svn66068-89.fc42.noarch                 | 100%       | 189.1 KiB/s | 60.5 KiB  | 00m00s |
| 257/4614                 | texlive-ctanify-11:svn44129-89.fc42.noarch                 | 100%       | 118.8 KiB/s | 20.8 KiB  | 00m00s |
| 258/4614                 | texlive-ctie-11:svn66186-89.fc42.x86_64                    | 100%       | 289.6 KiB/s | 185.6 KiB | 00m01s |
| 259/4614                 | texlive-ctanupload-11:svn26313-89.fc42.noarch              | 100%       | 431.3 KiB/s | 189.8 KiB | 00m00s |
| 260/4614                 | texlive-cweb-11:svn66186-89.fc42.x86_64                    | 100%       | 124.6 KiB/s | 73.1 KiB  | 00m01s |
| 261/4614                 | texlive-de-macro-11:svn61719-89.fc42.noarch                | 100%       | 84.6 KiB/s  | 38.7 KiB  | 00m00s |
| 262/4614                 | texlive-detex-11:svn66186-89.fc42.x86_64                   | 100%       | 159.4 KiB/s | 37.5 KiB  | 00m00s |
| 263/4614                 | texlive-dtl-11:svn62387-89.fc42.x86_64                     | 100%       | 376.6 KiB/s | 71.6 KiB  | 00m00s |
| 264/4614                 | texlive-dtxgen-11:svn51663-89.fc42.noarch                  | 100%       | 95.7 KiB/s  | 45.0 KiB  | 00m00s |
| 265/4614                 | texlive-dvi2tty-11:svn66186-89.fc42.x86_64                 | 100%       | 67.4 KiB/s  | 24.6 KiB  | 00m00s |
| 266/4614                 | texlive-dviasm-11:svn64430-89.fc42.noarch                  | 100%       | 401.6 KiB/s | 638.6 KiB | 00m02s |
| 267/4614                 | texlive-digestif-11:svn65223-89.fc42.noarch                | 100%       | 177.6 KiB/s | 39.8 KiB  | 00m00s |
| 268/4614                 | texlive-dvicopy-11:svn66186-89.fc42.x86_64                 | 100%       | 101.9 KiB/s | 24.5 KiB  | 00m00s |
| 269/4614                 | texlive-dvidvi-11:svn65952-89.fc42.x86_64                  | 100%       | 54.9 KiB/s  | 16.1 KiB  | 00m00s |
| 270/4614                 | texlive-dviinfo-11:svn59216-89.fc42.noarch                 | 100%       | 69.1 KiB/s  | 46.1 KiB  | 00m01s |
| 271/4614                 | texlive-dviout-util-11:svn66186-89.fc42.x86_64             | 100%       | 93.8 KiB/s  | 79.0 KiB  | 00m01s |
| 272/4614                 | texlive-dviljk-11:svn66186-89.fc42.x86_64                  | 100%       | 146.5 KiB/s | 34.3 KiB  | 00m00s |
| 273/4614                 | texlive-dvipos-11:svn66186-89.fc42.x86_64                  | 100%       | 153.0 KiB/s | 313.5 KiB | 00m02s |
| 274/4614                 | texlive-dvipng-11:svn66203-89.fc42.x86_64                  | 100%       | 63.0 KiB/s  | 20.6 KiB  | 00m00s |
| 275/4614                 | texlive-findhyph-11:svn47444-89.fc42.noarch                | 100%       | 129.1 KiB/s | 100.2 KiB | 00m01s |
| 276/4614                 | texlive-fragmaster-11:svn26313-89.fc42.noarch              | 100%       | 484.0 KiB/s | 1.4 MiB   | 00m03s |
| 277/4614                 | texlive-dvisvgm-11:svn66532-89.fc42.x86_64                 | 100%       | 73.6 KiB/s  | 22.3 KiB  | 00m00s |
| 278/4614                 | texlive-git-latexdiff-11:svn54732-89.fc42.x86_64           | 100%       | 100.3 KiB/s | 33.9 KiB  | 00m00s |
| 279/4614                 | texlive-gsftopk-11:svn52851-89.fc42.x86_64                 | 100%       | 71.2 KiB/s  | 22.7 KiB  | 00m00s |
| 280/4614                 | texlive-hook-pre-commit-pkg-doc-11:svn41378-76.fc42.noarch | 100%       | 273.1 KiB/s | 67.5 KiB  | 00m00s |
| 281/4614                 | texlive-installfont-11:svn31205-89.fc42.noarch             | 100%       | 1.5 MiB/s   | 16.2 MiB  | 00m11s |
| 282/4614                 | texlive-arara-11:svn63760-89.fc42.noarch                   | 100%       | 83.1 KiB/s  | 38.5 KiB  | 00m00s |
| 283/4614                 | texlive-lacheck-11:svn66186-89.fc42.x86_64                 | 100%       | 73.5 KiB/s  | 16.5 KiB  | 00m00s |
| 284/4614                 | texlive-latex-papersize-11:svn53131-89.fc42.noarch         | 1%         | 54.8 KiB/s  | 199.0 KiB | 05m02s |
| 285/4614                 | texlive-ketcindy-11:svn58661-89.fc42.noarch                | 70% [===== | 58.8 KiB/s  | 70.4 KiB  | 00m00s |
| 286/4614                 | texlive-latex-git-log-11:svn54010-89.fc42.noarch           | 56% [===== | 9.0 B/s     | 193.7 KiB | 04h44m |
| 287/4614                 | texlive-latex2man-11:svn64477-89.fc42.noarch               |            |             |           |        |
| 284/4614                 | Total  | 3% [=      | 1.4 MiB/s   | 86.6 MiB  | 32m36s |
| [0] 0: sudo*             |  |            |             |           |        |
| "fedora" 12:45 25-aar-25 |  |            |             |           |        |





- Настройка раскладки клавиатуры

Я настраиваю клавиатуру на английскую и русскую раскладку.



fedora42-2 on QEMU/KVM

File Virtual Machine View Send Key

1 foot 100% 100% 192.168.122.240/24 0% 16% us 12:34

```
foot
mmusa@fedora:~$ mkdir -p ~/.config/sway
mmusa@fedora:~$ touch ~/.config/sway/config.d/95-system-keyboard-config.conf
touch: невозможно выполнить touch для '/home/mmusa/.config/sway/config.d/95-system-keyboard-config.conf': Нет такого файла или каталога
mmusa@fedora:~$ mkdir -p ~/.config/sway/config.d
mmusa@fedora:~$ touch ~/.config/sway/config.d/95-system-keyboard-config.conf
mmusa@fedora:~$ exec_always /usr/libexec/sway-systemd/locale1-xkb-config --oneshot
-bash: exec_always: команда не найдена
mmusa@fedora:~$ nano ~/.config/sway/config.d/95-system-keyboard-config.conf
mmusa@fedora:~$ nano /etc/x
```

[0] 0:bash\* "fedora" 12:34 25-aпр-25

## - Дополнительное задание

В окне терминала проанализирую последовательность загрузки системы, выполнив команду dmesg:

```
root@localhost-live:~# dmesg | grep "linux version"
root@localhost-live:~# dmesg | grep "Linux version"
[    0.000000] Linux version 6.14.0-63.fc42.x86_64 (mockbuild@5701c6d040c430c8283c8c9847dc93f) (gcc (GCC) 15.0.1 20250228 (Red Hat 15.0.1-0), GNU ld version 2.44-3.fc42) #1 SMP PREEMPT_DYNAMIC Mon Mar 24 19:53:37 UTC 2025
root@localhost-live:~# dmesg | grep "Mhz processor"
root@localhost-live:~# dmesg | grep "mhz"
root@localhost-live:~# dmesg | grep -i "mhz"
[    0.000006] tsc: Detected 2807.998 MHz processor
root@localhost-live:~# dmesg | grep -i "cpu0"
[    0.142354] smpboot: CPU0: Intel(R) Core(TM) i7-7700HQ CPU @ 2.80GHz (family: 0x6, model: 0x9e, stepping: 0x9)
root@localhost-live:~# dmesg | grep -i "memory available"
root@localhost-live:~# dmesg | grep -i "MemTotal"
root@localhost-live:~# dmesg | grep -i "available" | grep -i "memory"
[    0.145794] Memory: 3951748K/4193764K available (20880K kernel code, 4471K rwddata, 17416K rodata, 5004K init, 6100K bss, 234244K reserved, 0K cma-reserved)
root@localhost-live:~# dmesg | grep -i "hypervisor detected"
[    0.000000] Hypervisor detected: KVM
root@localhost-live:~# dmesg | grep -i "mounted root"
root@localhost-live:~# dmesg | grep -i "mounted root" | grep -i "filesystem"
root@localhost-live:~# exit
```

Выход

```

[mmusa@fedora ~]$ tmux
[exited]
[mmusa@fedora ~]$ dmesg | grep "mounted root"
dmesg: read kernel buffer failed: Операция не позволена
[mmusa@fedora ~]$ sudo dmesg | grep "mounted root"
[sudo] пароль для mmusa:
[mmusa@fedora ~]$ dmesg | grep "filesystem"
dmesg: read kernel buffer failed: Операция не позволена
[mmusa@fedora ~]$ sudo -i
[root@momusa ~]# dmesg | grep -i "mounted root" | grep -i "filesystem"
[root@momusa ~]# dmesg | grep -i "filesystem"
[    2.901461] BTRFS info (device vda3): first mount of filesystem 052cdf73-49cf-4efe-ad7d-fb655ba9bae0
[    5.555577] EXT4-fs (vda2): mounted filesystem 0b959183-a56d-49cf-bc9a-584c59b3eff3 r/w with ordered data mode. Quota mode: none.
[root@momusa ~]# cat /proc/mounts
/dev/vda3 / btrfs rw,seclabel,relatime,compress=zstd:1,discard=async,space_cache=v2,subvolid=257,subvol=/root 0 0
devtmpfs /dev devtmpfs rw,seclabel,nosuid,size=4096k,nr_inodes=494940,mode=755,inode64 0 0
tmpfs /dev/shm tmpfs rw,seclabel,nosuid,nodev,inode64 0 0
devpts /dev/pts devpts rw,seclabel,nosuid,noexec,relatime,gid=5,mode=620,ptmxmode=000 0 0
sysfs /sys sysfs rw,seclabel,nosuid,nodev,noexec,relatime 0 0
securityfs /sys/kernel/security securityfs rw,nosuid,nodev,noexec,relatime 0 0
cgroup2 /sys/fs/cgroup cgroup2 rw,seclabel,nosuid,nodev,noexec,relatime,nsdelegate,memory_recursiveprot 0 0
pstore /sys/fs/pstore pstore rw,seclabel,nosuid,nodev,noexec,relatime 0 0
bpf /sys/fs/bpf bpf rw,nosuid,nodev,noexec,relatime,mode=700 0 0
configfs /sys/kernel/config configfs rw,nosuid,nodev,noexec,relatime 0 0
proc /proc proc rw,nosuid,nodev,noexec,relatime 0 0
tmpfs /run tmpfs rw,seclabel,nosuid,nodev,size=799464k,nr_inodes=819200,mode=755,inode64 0 0
selinuxfs /sys/fs/selinux selinuxfs rw,nosuid,noexec,relatime 0 0
systemd-1 /proc/sys/fs/binfmt_misc autofs rw,relatime,fd=37,pgpr=1,timeout=0,minproto=5,maxproto=5,direct,pipe_ino=4622 0 0
hugetlbfs /dev/hugepages hugetlbfs rw,seclabel,nosuid,nodev,relatime,pagesize=2M 0 0
tracefs /sys/kernel/tracing tracefs rw,seclabel,nosuid,nodev,noexec,relatime 0 0
debugfs /sys/kernel/debug debugfs rw,seclabel,nosuid,nodev,noexec,relatime 0 0
mqueue /dev/mqueue mqueue rw,seclabel,nosuid,nodev,noexec,relatime 0 0
tmpfs /run/credentials/systemd-journald.service tmpfs ro,seclabel,nosuid,nodev,noexec,relatime,nosymfollow,size=1024k,nr_inodes=1024,mode=700,inode64,noswap 0 0
fusectl /sys/fs/fuse/connections fusectl rw,nosuid,nodev,noexec,relatime 0 0
tmpfs /tmp tmpfs rw,seclabel,nosuid,nodev,size=1998656k,nr_inodes=1048576,inode64 0 0
/dev/vda3 /home btrfs rw,seclabel,relatime,compress=zstd:1,discard=async,space_cache=v2,subvolid=256,subvol=/home 0 0
/dev/vda2 /boot ext4 rw,seclabel,relatime 0 0
tmpfs /run/credentials/systemd-resolved.service tmpfs ro,seclabel,nosuid,nodev,noexec,relatime,nosymfollow,size=1024k,nr_inodes=1024,mode=700,inode64,noswap 0 0
sunrpc /var/lib/nfs/rpc_pipefs rpc_pipefs rw,relatime 0 0
tmpfs /run/user/1000 tmpfs rw,seclabel,nosuid,nodev,relatime,size=399728k,nr_inodes=99932,mode=700,uid=1000,gid=1000,inode64 0 0
portal /run/user/1000/doc fuse.portal rw,nosuid,nodev,relatime,user_id=1000,group_id=1000 0 0
tmpfs /run/user/0 tmpfs rw,seclabel,nosuid,nodev,relatime,size=399728k,nr_inodes=99932,mode=700,inode64 0 0
[root@momusa ~]#

```

```

tmpfs /tmp tmpfs rw,seclabel,nosuid,nodev,size=1998656k,nr_inodes=1048576,inode64 0 0
/dev/vda3 /home btrfs rw,seclabel,relatime,compress=zstd:1,discard=async,space_cache=v2,subvolid=256,subvol=/home 0 0
/dev/vda2 /boot ext4 rw,seclabel,relatime 0 0
tmpfs /run/credentials/systemd-resolved.service tmpfs ro,seclabel,nosuid,nodev,noexec,relatime,nosymfollow,size=1024k,nr_inodes=1024,mode=700,inode64,noswap 0 0
sunrpc /var/lib/nfs/rpc_pipefs rpc_pipefs rw,relatime 0 0
tmpfs /run/user/1000 tmpfs rw,seclabel,nosuid,nodev,relatime,size=399728k,nr_inodes=99932,mode=700,uid=1000,gid=1000,inode64 0 0
portal /run/user/1000/doc fuse.portal rw,nosuid,nodev,relatime,user_id=1000,group_id=1000 0 0
tmpfs /run/user/0 tmpfs rw,seclabel,nosuid,nodev,relatime,size=399728k,nr_inodes=99932,mode=700,inode64 0 0
[root@momusa ~]# mount
/dev/vda3 on / type btrfs (rw,relatime,seclabel,compress=zstd:1,discard=async,space_cache=v2,subvolid=257,subvol=/root)
devtmpfs on /dev type devtmpfs (rw,nosuid,seclabel,size=4096k,nr_inodes=494940,mode=755,inode64)
tmpfs on /dev/shm type tmpfs (rw,nosuid,nodev,seclabel,inode64)
devpts on /dev/pts type devpts (rw,nosuid,noexec,relatime,seclabel,gid=5,mode=620,ptmxmode=000)
sysfs on /sys type sysfs (rw,nosuid,nodev,noexec,relatime,seclabel)
securityfs on /sys/kernel/security type securityfs (rw,nosuid,nodev,noexec,relatime)
cgroup2 on /sys/fs/cgroup type cgroup2 (rw,nosuid,nodev,noexec,relatime,seclabel,nsdelegate,memory_recursiveprot)
pstore on /sys/fs/pstore type pstore (rw,nosuid,nodev,noexec,relatime,seclabel)
bpf on /sys/fs/bpf type bpf (rw,nosuid,nodev,noexec,relatime,mode=700)
configfs on /sys/kernel/config type configfs (rw,nosuid,nodev,noexec,relatime)
proc on /proc type proc (rw,nosuid,nodev,noexec,relatime)
tmpfs on /run type tmpfs (rw,nosuid,nodev,seclabel,size=799464k,nr_inodes=819200,mode=755,inode64)
selinuxfs on /sys/fs/selinux type selinuxfs (rw,nosuid,noexec,relatime)
systemd-1 on /proc/sys/fs/binfmt_misc type autofs (rw,relatime,fd=37,pgpr=1,timeoout=0,minproto=5,maxproto=5,direct,pipe_ino=4622)
hugetlbfs on /dev/hugepages type hugetlbfs (rw,nosuid,nodev,relatime,seclabel,pagesize=2M)
tracefs on /sys/kernel/tracing type tracefs (rw,nosuid,nodev,noexec,relatime,seclabel)
debugfs on /sys/kernel/debug type debugfs (rw,nosuid,nodev,noexec,relatime,seclabel)
mqueue on /dev/mqueue type mqueue (rw,nosuid,nodev,noexec,relatime,seclabel)
tmpfs on /run/credentials/systemd-journald.service type tmpfs (ro,nosuid,nodev,noexec,relatime,nosymfollow,seclabel,size=1024k,nr_inodes=1024,mode=700,inode64,noswap)
fusectl on /sys/fs/fuse/connections type fusectl (rw,nosuid,nodev,noexec,relatime)
tmpfs on /tmp type tmpfs (rw,nosuid,nodev,seclabel,size=1998656k,nr_inodes=1048576,inode64)
/dev/vda3 on /home type btrfs (rw,relatime,seclabel,compress=zstd:1,discard=async,space_cache=v2,subvolid=256,subvol=/home)
/dev/vda2 on /boot type ext4 (rw,relatime,seclabel)
tmpfs on /run/credentials/systemd-resolved.service type tmpfs (ro,nosuid,nodev,noexec,relatime,nosymfollow,seclabel,size=1024k,nr_inodes=1024,mode=700,inode64,noswap)
sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw,relatime)
tmpfs on /run/user/1000 type tmpfs (rw,nosuid,nodev,relatime,seclabel,size=399728k,nr_inodes=99932,mode=700,uid=1000,gid=1000,inode64)
portal on /run/user/1000/doc type fuse.portal (rw,nosuid,nodev,relatime,user_id=1000,group_id=1000)
tmpfs on /run/user/0 type tmpfs (rw,nosuid,nodev,relatime,seclabel,size=399728k,nr_inodes=99932,mode=700,inode64)
[root@momusa ~]# dmesg grep -i "mounted"
Try 'dmesg --help' for more information.
[root@momusa ~]# dmesg | grep -i "mounted"
[ 4.483415] systemd[1]: Mounted dev-hugepages.mount - Huge Pages File System.
[ 4.483681] systemd[1]: Mounted dev-mqueue.mount - POSIX Message Queue File System.
[ 4.483893] systemd[1]: Mounted sys-kernel-debug.mount - Kernel Debug File System.
[ 4.484138] systemd[1]: Mounted sys-kernel-tracing.mount - Kernel Trace File System.
[ 5.555577] EXT4-fs (vda2): mounted filesystem 0b959183-a56d-49cf-bc9a-584c59b3eff3 r/w with ordered data mode. Quota mode: none.
[root@momusa ~]# exit

```