

Лабораторная работа № 1

fedora sway

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

процесс выполнения лабораторной работы

После установки fedora sway

```
[lchileshe@fedora ~]$ sudo -i
We trust you have received the usual lecture from the local System
Administrator. It usually boils down to these three things:

    #1) Respect the privacy of others.
    #2) Think before you type.
    #3) With great power comes great responsibility.

For security reasons, the password you type will not be visible.

[sudo] password for lchileshe:
[root@fedora ~]# dnf -y update
fedora 39 - x86_64 72% [=====] 2.8 MB/s | 68 MB 00:09 ETA
```

Рис. 1: Обновление все пакеты

Повышение комфорта работы


Программы для удобства работы в консоли



A terminal window with a dark background and light-colored text. The first line shows the word 'complete!' in all caps. The second line shows a shell prompt '[root@fedora ~]#' followed by the command 'dnf -y install tmux nc'. A cursor is positioned at the end of the command line.

```
complete!  
[root@fedora ~]# dnf -y install tmux nc
```

Рис. 2: tmux



```
[root@fedora ~]# dnf install dnf-automatic
```

Рис. 3: dnf-automatic

Установка драйверов для VirtualBox

```
lehileshe@fedora:~$ sudo .i  
[sudo] password for lehileshe:  
root@fedora:~# dnf -y group install "Development Tools"  
█
```

Рис. 4: Development Tools

```
root@fedora:~# mount /dev/sr0 /media
mount: /media: WARNING: source write-protected, mounted read-only.
root@fedora:~#
```

[0] 0:sudo* "fedora" 19:47 28 Feb 24

Рис. 5: mount

Установка драйверов

```
root@fedora:~# /media/VBoxLinuxAdditions.run
Verifying archive integrity... 100%   MD5 checksums are OK. All good.
Uncompressing VirtualBox 7.0.14 Guest Additions for Linux 100%
VirtualBox Guest Additions installer
This system appears to have a version of the VirtualBox Guest Additions
already installed.  If it is part of the operating system and kept up-to-
-date,
there is most likely no need to replace it.  If it is not up-to-date, yo
u
should get a notification when you start the system.  If you wish to rep
lace
it with this version, please do not continue with this installation now,
but
instead remove the current version first, following the instructions for
the
operating system.

If your system simply has the remains of a version of the Additions you
could
not remove you should probably continue now, and these will be removed d
uring
installation.

Do you wish to continue? [yes or no]
[0] 0:sudo*                                     "fedora" 19:47 28-Feb-24
```

Настройка раскладки клавиатуры

```
lchilleshe@fedora:~$ mkdir ~/.config/sway/config.d  
lchilleshe@fedora:~$ touch ~/.config/sway/config.d/95-  
system-keyboard-config.conf  
lchilleshe@fedora:~$
```

Рис. 7: 95-system-keyboard-config.conf

Редактирование файла конфигурации

```
foot
#0-keyboard.conf [-M-] 10 L: 1+ 9 10/ 10[*][X]
# Written by systemd-localed(8), read by systemd-loc
# probably wise not to edit this file manually. Use
# instruct systemd-localed to update it.
Section "InputClass"
    Identifier "system-keyboard"
    MatchIsKeyboard "on"
    Option "XkbLayout" "us,ru"
    Option "XkbVariant" ",winkeys"
    Option "XkbOptions" "grp:ctrl_toggle,compose"
EndSection
```

Установка имени пользователя и названия хоста

Установка имени пользователя и названия хоста

```
root@fedora:~# hostnamectl set-hostname lchileshe
root@fedora:~# hostnamectl
  Static hostname: lchileshe
    Icon name: computer-vm
    Chassis: vm
    Machine ID: 0214954ab5f44b709989b85cce733a8d
    Boot ID: d4d3ad10c47a475587cbe141a5c49a39
  Virtualization: oracle
  Operating System: Fedora Linux 39 (Sway)
    CPE OS Name: cpe:/o:fedoraproject:fedora:39
    OS Support End: Tue 2024-11-12
  OS Support Remaining: 8month 1w 6d
    Kernel: Linux 6.7.6-200.fc39.x86_64
    Architecture: x86-64
  Hardware Vendor: innotek GmbH
  Hardware Model: VirtualBox
  Firmware Version: VirtualBox
    Firmware Date: Fri 2006-12-01
    Firmware Age: 17y 2month 4w
root@fedora:~#
```


Я научился устанавливать Fedora, а также все необходимые пакеты.