

Лабораторная работа №1

Установка и конфигурация ОС на виртуальную машину

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Цель работы

- Приобретение навыков установки ОС на виртуальную машину и настройки базовых сервисов.

Выполнение работы

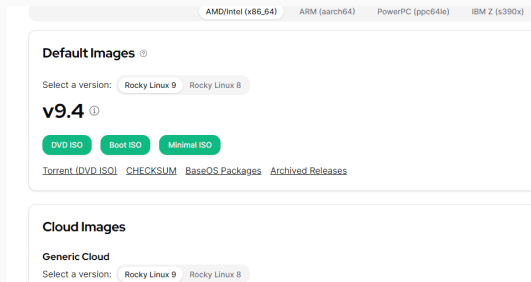


Рис. 1: Предварительное скачивание версии

Базовая настройка

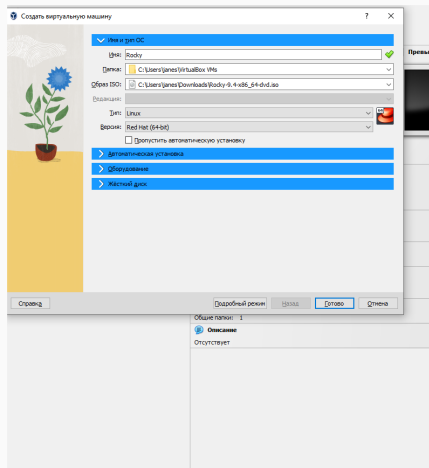


Рис. 2: Название, образ диска

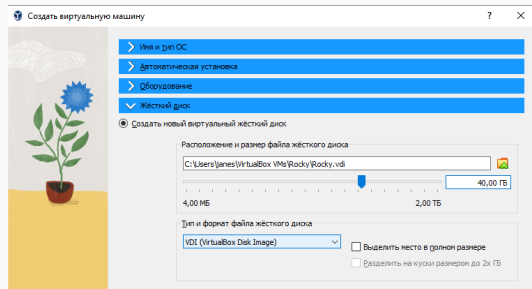
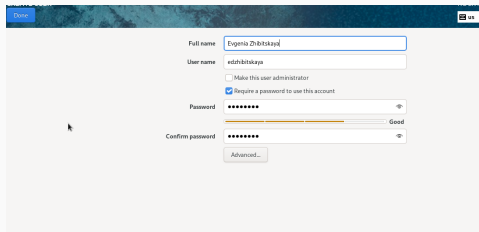


Рис. 3: Жесткий диск



The screenshot shows a user creation form with the following fields and options:

- Full name:** A text input field containing "Evgenia Zhibitskaya".
- User name:** A text input field containing "edzhibitskaya".
- Make this user administrator:** An unchecked checkbox.
- Require a password to use this account:** A checked checkbox.
- Password:** A password input field with a strength indicator showing "Good".
- Confirm password:** A password input field.
- Advanced...** A button to expand more options.

Выбор основного языка, настройка клавиатуры, имя пользователя и пароль для root

Рис. 4: Имя пользователя

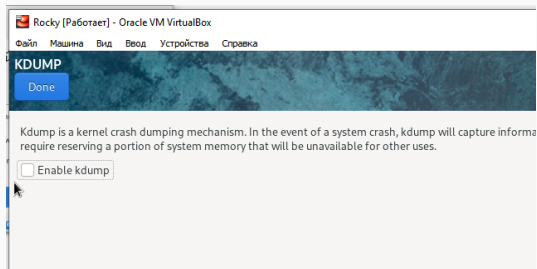


Рис. 5: Отключение KDUMP

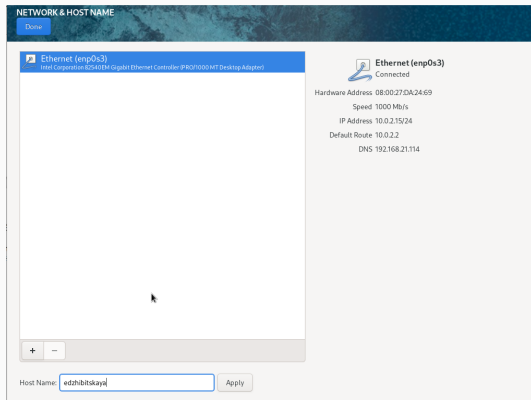


Рис. 6: Сеть и имя узла

Подключение образа диска

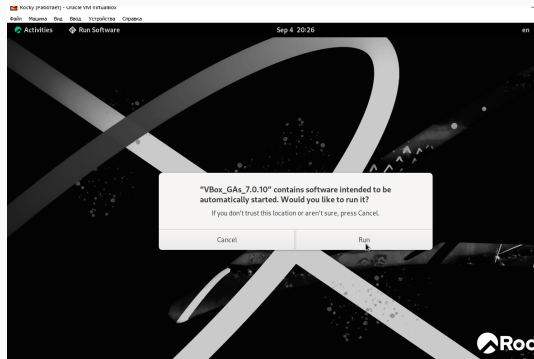
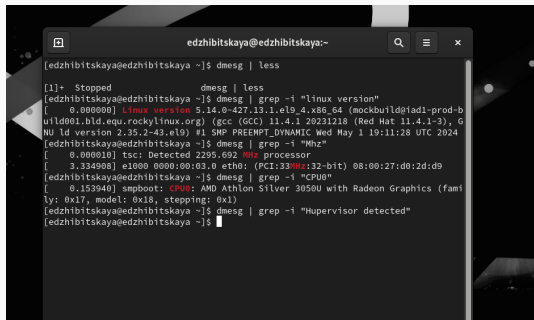


Рис. 7: Образ диска

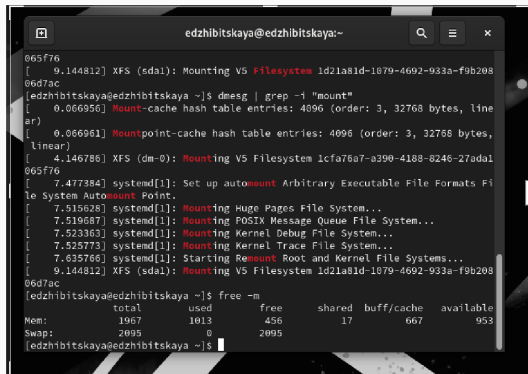
Выполнение задания. Изучение характеристик



A terminal window titled 'edzhbitskaya@edzhbitskaya:~' showing the output of the 'dmesg | less' command. The output displays various system boot logs, including the Linux version (5.14.0-427.13.1.el9_4.x86_64), GCC version (11.4.1), and CPU information (AMD Athlon Silver 3050U with Radeon Graphics).

```
edzhbitskaya@edzhbitskaya:~$ dmesg | less
[1]+  Stopped                  dmesg | less
edzhbitskaya@edzhbitskaya ~]$ dmesg | grep -i "linux version"
[ 0.000000] Linux version 5.14.0-427.13.1.el9_4.x86_64 (mockbuild@iad1-prod-b
uid001.bld.equ.rockylinux.org) (gcc (GCC) 11.4.1 20231218 (Red Hat 11.4.1-3), G
NU ld version 2.35.2-43.el9) #1 SMP PREEMPT_DYNAMIC Wed May 1 19:11:28 UTC 2024
edzhbitskaya@edzhbitskaya ~]$ dmesg | grep -i "Mhz"
[ 0.000010] tsc: Detected 2295.692 MHz processor
[ 3.334908] e1000 0000:00:03:0 eth0: (PCI:33MHz:32-bit) 08:00:27:d0:d2:d9
edzhbitskaya@edzhbitskaya ~]$ dmesg | grep -i "CPU0"
[ 0.153940] smpboot: CPU0: AMD Athlon Silver 3050U with Radeon Graphics (fami
ly: 0x17, model: 0x18, stepping: 0x1)
edzhbitskaya@edzhbitskaya ~]$ dmesg | grep -i "Hupervisor detected"
edzhbitskaya@edzhbitskaya ~]$
```

Рис. 8: Версия ядра, частота процессора



A terminal window titled 'edzhbitskaya@edzhbitskaya:~' showing the output of the 'dmesg | grep -i "mount"' command. The output displays various system boot logs, including XFS mounting, Mount-cache hash table entries, and Mountpoint-cache hash table entries.

```
edzhbitskaya@edzhbitskaya:~$ dmesg | grep -i "mount"
[ 0.066956] Mount-cache hash table entries: 4096 (order: 3, 32768 bytes, line
ar)
[ 0.066961] Mountpoint-cache hash table entries: 4096 (order: 3, 32768 bytes,
linear)
[ 4.146786] XFS (dm-0): Mounting V5 Filesystem 1cfa76a7-a390-4188-8246-27ada1
065f76
[ 7.477384] systemd[1]: Set up automount Arbitrary Executable File Formats Fi
le System Automount Point.
[ 7.515628] systemd[1]: Mounting Huge Pages File System...
[ 7.519687] systemd[1]: Mounting POSIX Message Queue File System...
[ 7.523363] systemd[1]: Mounting Kernel Debug File System...
[ 7.525773] systemd[1]: Mounting Kernel Trace File System...
[ 7.635766] systemd[1]: Starting Remount Root and Kernel File Systems...
[ 9.144812] XFS (sda1): Mounting V5 Filesystem 1d21a81d-1079-4692-933a-f9b208
06d7ac
edzhbitskaya@edzhbitskaya ~]$ free -m
              total        used        free      shared  buff/cache   available
Mem:           1967         1013          456           17          667          953
Swap:          2095           0         2095
```

Рис. 9: Остальные характеристики

Вывод

- В ходе работы была установлена машина Rocky Linux, проведена ее настройка, изучены различные ее характеристики.