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backgroundColor: grey

Лабораторная работа №1

Установка и конфигурация операционной системы на виртуальную машину

дисциплина: Информационная безопасность

Студент: Койфман Кирилл Дмитриевич

Группа: НПИбд-01-21

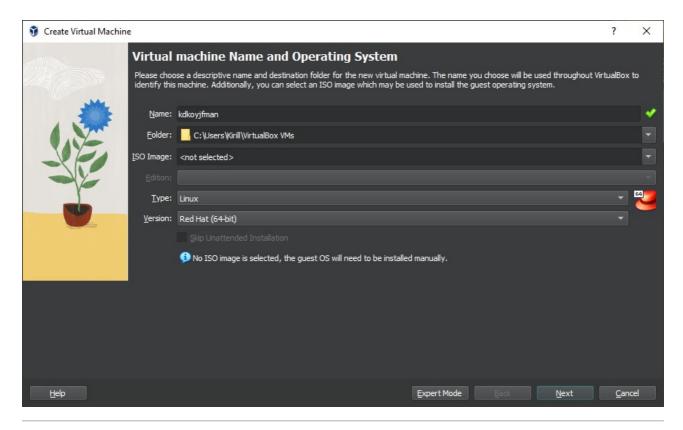
Цель работы.

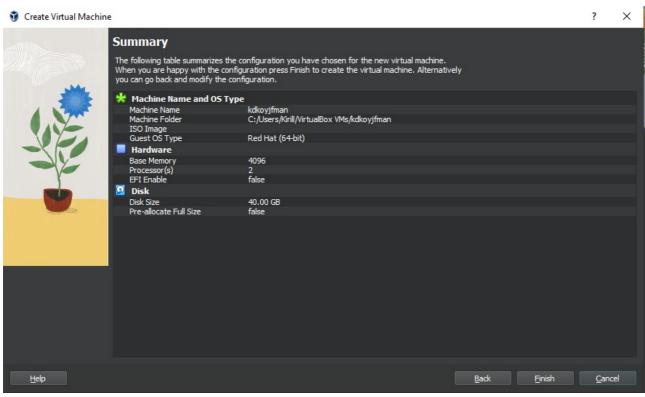
Целью данной работы является приобретение практических навыков установки операционной системы на виртуальную машину, настройки минимально необходимых для дальнейшей работы сервисов. Задачи.

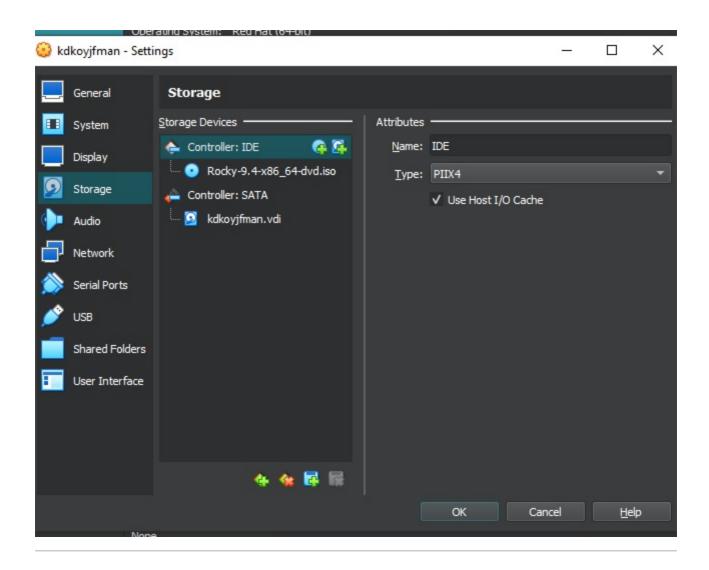
- 1. Установить и настроить виртуальную машину Rocky Linux.
- 2. Установить имя пользователя и название хоста и проверить корректность проведённой установки.
- 3. Получить информацию с помощью команды dmesg:
 - 1. Версия ядра Linux (Linux version).
 - 2. Частота процессора (Detected Mhz processor).
 - 3. Модель процессора (CPU0).
 - 4. Объем доступной оперативной памяти (Memory available).
 - 5. Тип обнаруженного гипервизора (Hypervisor detected).
 - 6. Тип файловой системы корневого раздела.
 - 7. Последовательность монтирования файловых систем.

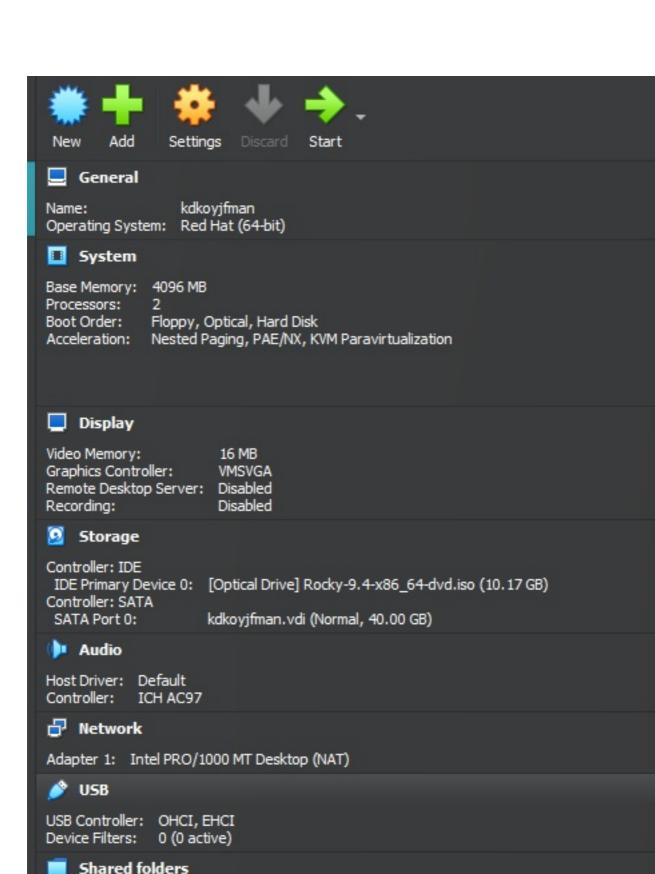
1 задание

Установка и настройка виртуальной машины:







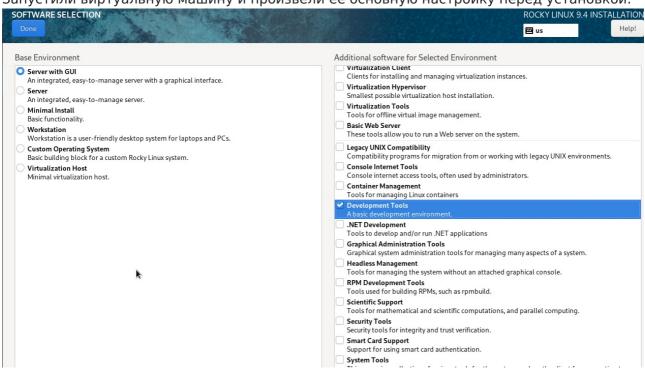


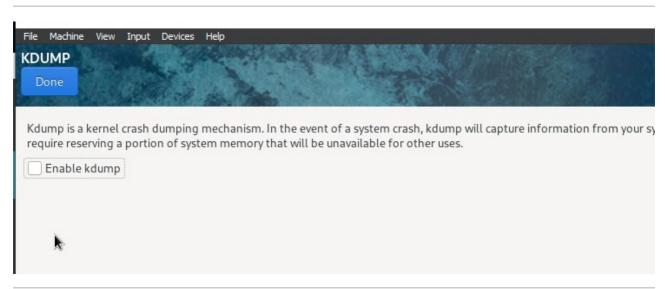
None

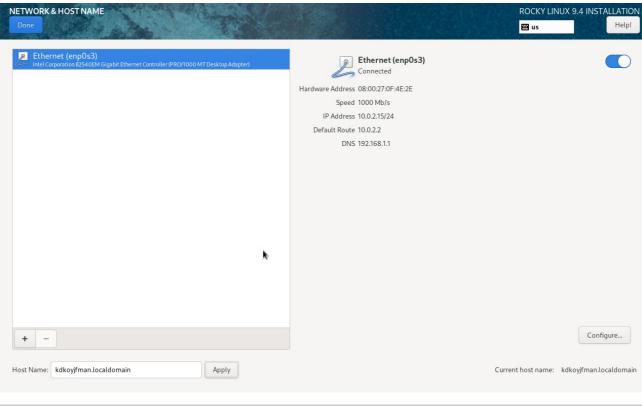
None

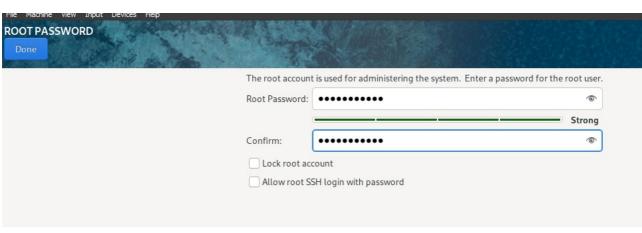
Description

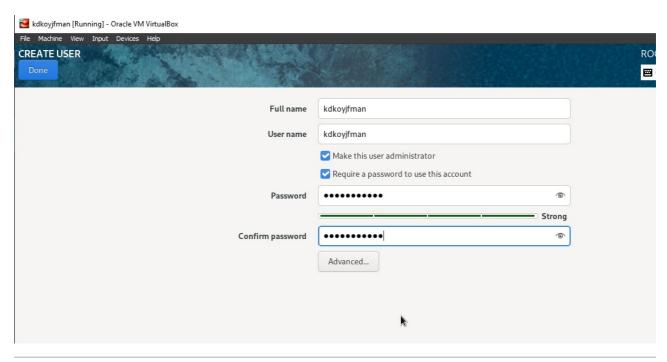
Запустили виртуальную машину и произвели её основную настройку перед установкой:

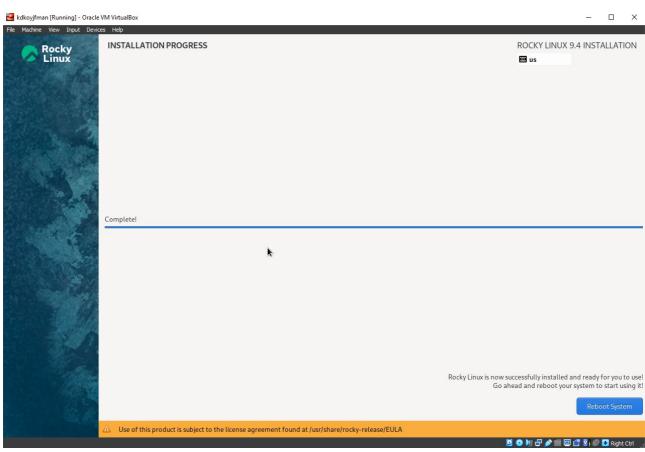


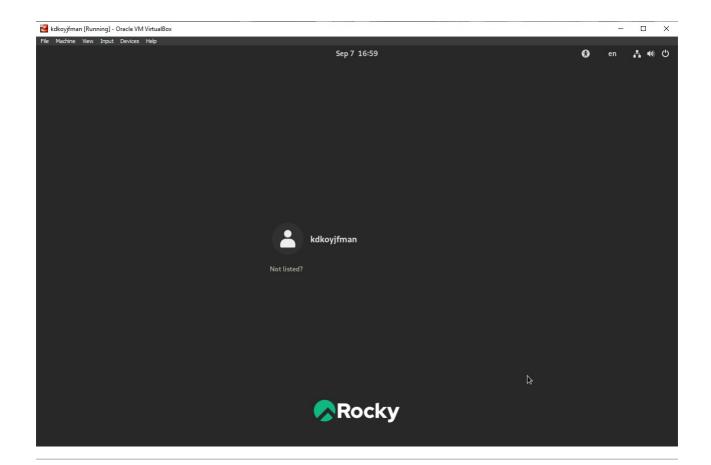




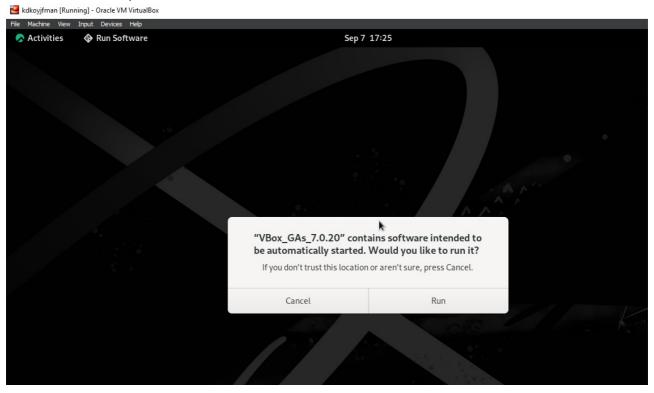


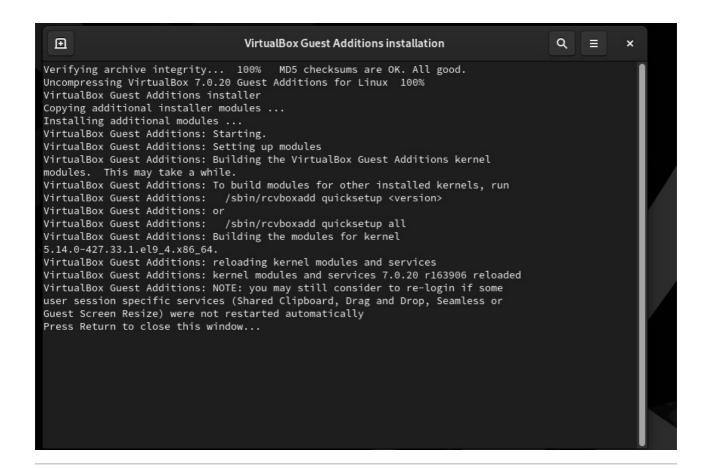




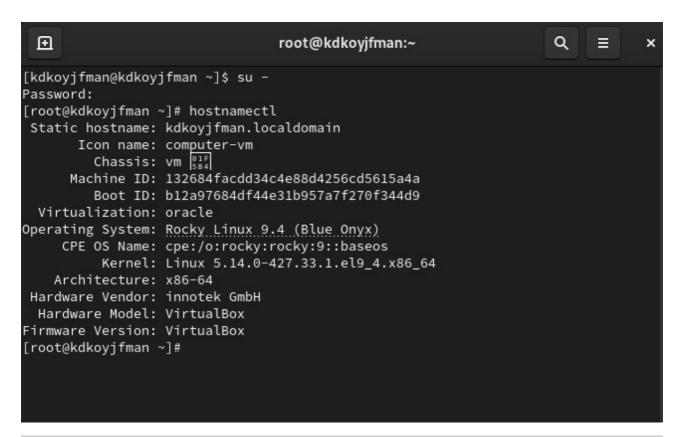


И подключили образ диска гостевой ОС:





2 задание



Наконец, воспользовались командой dmesq для получения необходимой информации:

```
[root@kdkoyjfman ~]# dmesg | grep -i "Mhz"
[ 0.000007] tsc: Detected 3494.400 MHz processor
```

[root@kdkoyjfman ~]# dmesg | grep -i "CPU0"

```
[root@kdkoyjfman ~]#

[root@kdkoyjfman ~]# dmesg | grep -1 "Memory"
[ 0.000748] ACPI: Reserving FACP table memory at [mem 0xdfff00f0-0xdfff0123]
[ 0.000749] ACPI: Reserving DSDT table memory at [mem 0xdfff0200-0xdfff023f]
[ 0.000749] ACPI: Reserving SDSDT table memory at [mem 0xdfff0200-0xdfff023f]
[ 0.000749] ACPI: Reserving FACS table memory at [mem 0xdfff0200-0xdfff023f]
[ 0.000749] ACPI: Reserving FACS table memory at [mem 0xdfff0200-0xdfff023f]
[ 0.000750] ACPI: Reserving APIC table memory at [mem 0xdfff0200-0xdfff023f]
[ 0.000750] ACPI: Reserving SDSDT table memory at [mem 0xdfff0200-0xdfff020b]
[ 0.000710] Reserving 256MB of memory at 312MB for crashkernet (System RAM: 4095MB)
[ 0.002712] Early memory node ranges
[ 0.062593] PM: hibernation: Registered nosave memory: [mem 0x00000000-0x00000fff]
[ 0.062593] PM: hibernation: Registered nosave memory: [mem 0x00000000-0x00000fff]
[ 0.062595] PM: hibernation: Registered nosave memory: [mem 0x00000000-0x00000fff]
[ 0.062595] PM: hibernation: Registered nosave memory: [mem 0x00000000-0x0000fff]
[ 0.062595] PM: hibernation: Registered nosave memory: [mem 0x00000000-0x0000fff]
[ 0.062596] PM: hibernation: Registered nosave memory: [mem 0x00000000-0x0000ffff]
[ 0.062596] PM: hibernation: Registered nosave memory: [mem 0x0000000-0xf0000fff]
[ 0.062596] PM: hibernation: Registered nosave memory: [mem 0xf000000-0xf0000fff]
[ 0.062596] PM: hibernation: Registered nosave memory: [mem 0xf000000-0xf0000fff]
[ 0.062597] PM: hibernation: Registered nosave memory: [mem 0xf00000-0xf0000fff]
[ 0.062597] PM: hibernation: Registered nosave memory: [mem 0xf00000-0xf0000fff]
[ 0.062597] PM: hibernation: Registered nosave memory: [mem 0xf000000-0xf0000fff]
[ 0.062597] PM: hibernation: Registered nosave memory: [mem 0xf000000-0xf0000ffff]
[ 0.062597] PM: hibernation: Registered nosave memory: [mem 0xf000000-0xf0000ffff]
[ 0.062597] PM: hibernation: Registered nosave memory: [mem 0xf000000-0xf0000ffff]
[ 0.062597] PM: hibernation: Registered nosave memory: [mem 0xf000000-0xf0000ffff
```

```
[root@kdkoyjfman ~]# dmesg | grep -i "Hypervisor"
[ 0.000000] <mark>Hypervisor</mark> detected: KVM
[ 1.726421] vmwgfx 0000:00:02.0: [drm] *ERROR* vmwgfx seems to be running on an unsupported <mark>hypervisor</mark>.
[root@kdkoyjfman ~]# ■
```

```
[root@kdkoyjfman ~]# dmesg | grep -i "filesystem"
[    2.584490] XFS (dm-0): Mounting V5 Filesystem 0f8492e8-607f-4b8b-9d4b-2c0f4ed6d5fa
[    3.838118] XFS (sda1): Mounting V5 Filesystem 52e54008-bc54-4f8b-bead-53alff93afc3
[root@kdkoyjfman ~]# dmesg | grep -i "mount"
[    0.177307] Mount-cache hash table entries: 8192 (order: 4, 65536 bytes, linear)
[    0.177312] Mountpoint-cache hash table entries: 8192 (order: 4, 65536 bytes, linear)
[    2.584490] XFS (dm-0): Mounting V5 Filesystem 0f8492e8-607f-4b8b-9d4b-2c0f4ed6d5fa
[    2.590787] XFS (dm-0): Mounting V5 Filesystem 0f8492e8-607f-4b8b-9d4b-2c0f4ed6d5fa
[    3.164662] systemd[]: Set up automount Arbitrary Executable File Formats File System Automount Point.
[    3.166706] systemd[]: Mounting Huge Pages File System...
[    3.167345] systemd[]: Mounting Kernel Debug File System...
[    3.194525] systemd[]: Mounting Kernel Trace File System...
[    3.196705] systemd[]: Mounted Huge Pages File System...
[    3.196706] systemd[]: Mounted Huge Pages File System...
[    3.202687] systemd[]: Mounted Kernel Debug File System.
[    3.202687] systemd[]: Mounted Kernel Debug File System.
[    3.202687] systemd[]: Mounted Kernel Debug File System.
[    3.838118] XFS (sda1): Mounted Kernel Debug File System.
[    3.848817] XFS (sda1): Ending clean mounted Mou
```

Спасибо за внимание!