

# Лабораторная работа 1

Установка и конфигурация операционной системы на виртуальную машину

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Ведьмина Александра Сергеевна

Российский университет дружбы народов, Москва, Россия

## Информация

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- Ведьмина Александра Сергеевна
- студентка
- Российский университет дружбы народов
- 1132236003@rudn.ru
- <https://asvedjmina.github.io/ru/>



## Вводная часть

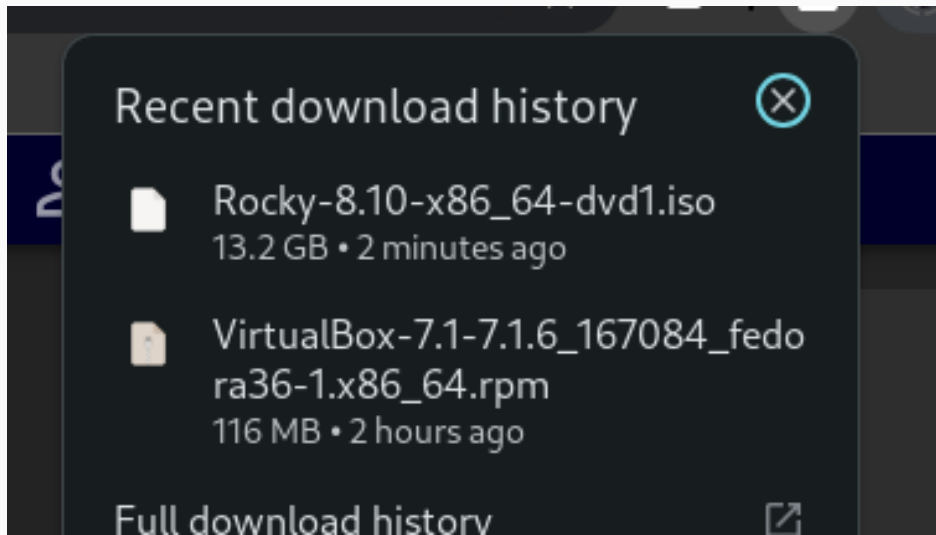
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Целью данной работы является приобретение практических навыков установки операционной системы на виртуальную машину, настройки минимально необходимых для дальнейшей работы сервисов.

## Ход работы

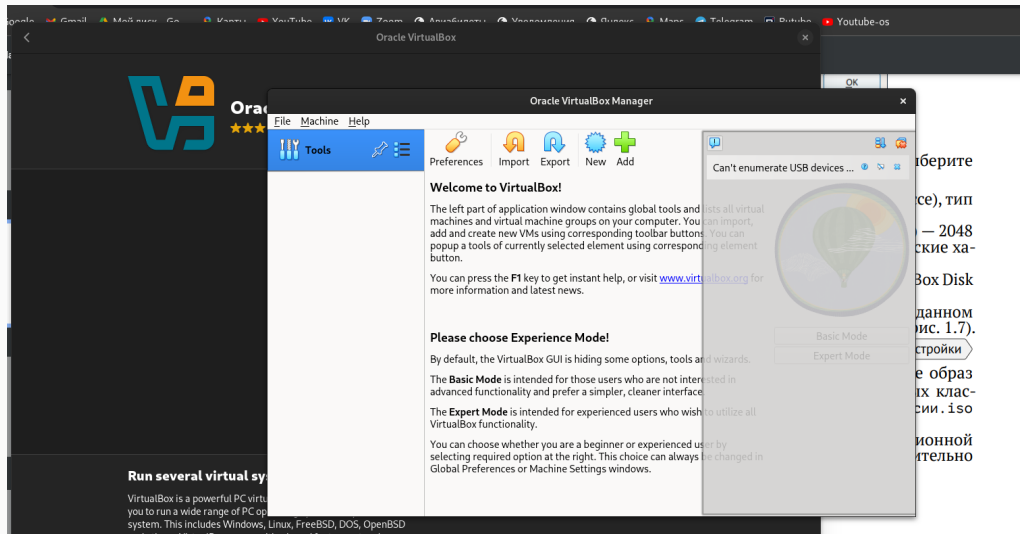
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Скачиваю Virtual Box и rocky.



# Выполнение лабораторной работы

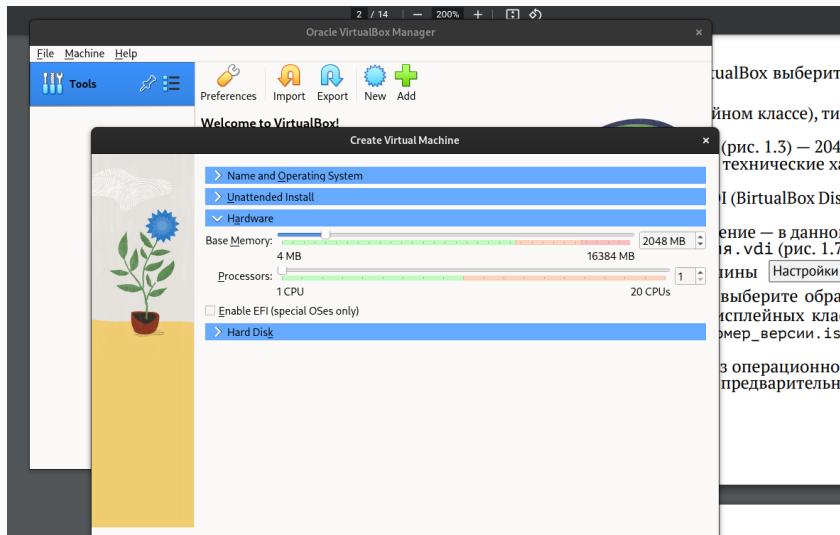
Запускаю Virtual Box.





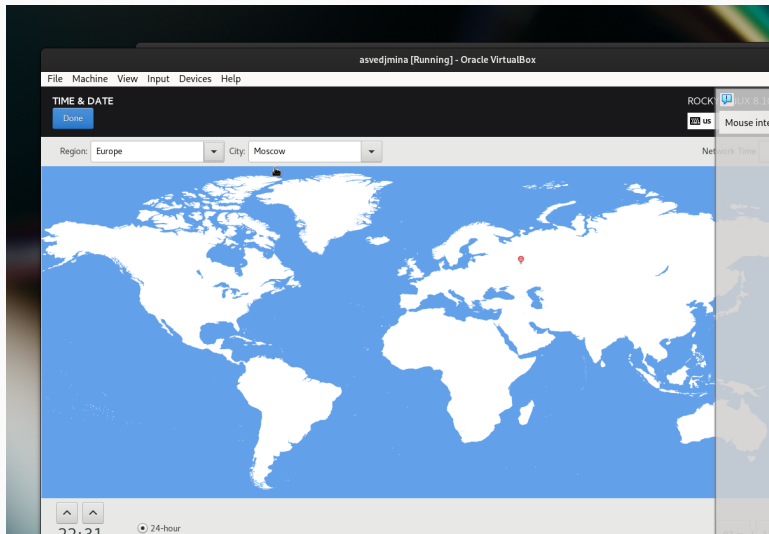
# Выполнение лабораторной работы

Создаю новую в.м. Запускаю роки.

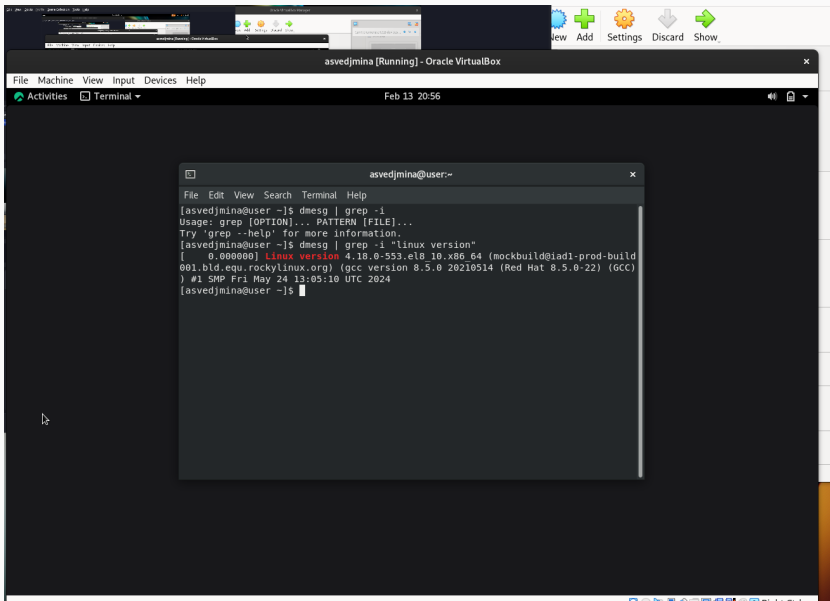


# Выполнение лабораторной работы

Затем загружаю роску, произвожу необходимую настройку.



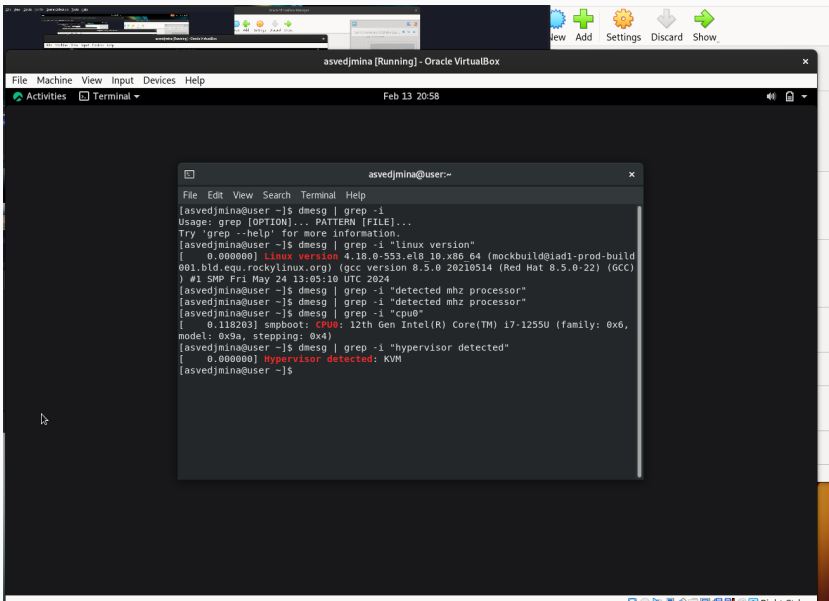
# Выполнение заданий



The screenshot shows a Windows desktop with an Oracle VM VirtualBox window open. The virtual machine is named 'asvedjmina' and is in a 'Running' state. The terminal window inside the VM shows the following output:

```
[asvedjmina@user ~]$ dmesg | grep -i
Usage: grep [OPTION]... PATTERN [FILE]...
Try 'grep --help' for more information.
[asvedjmina@user ~]$ dmesg | grep -i "linux version"
[    0.000000] Linux version 4.18.0-553.el8_10.x86_64 (mockbuild@iad1-prod-build
001.bld.equ.rockylinux.org) (gcc version 8.5.0 20210514 (Red Hat 8.5.0-22) (GCC)
) #1 SMP Fri May 24 13:05:10 UTC 2024
[asvedjmina@user ~]$
```

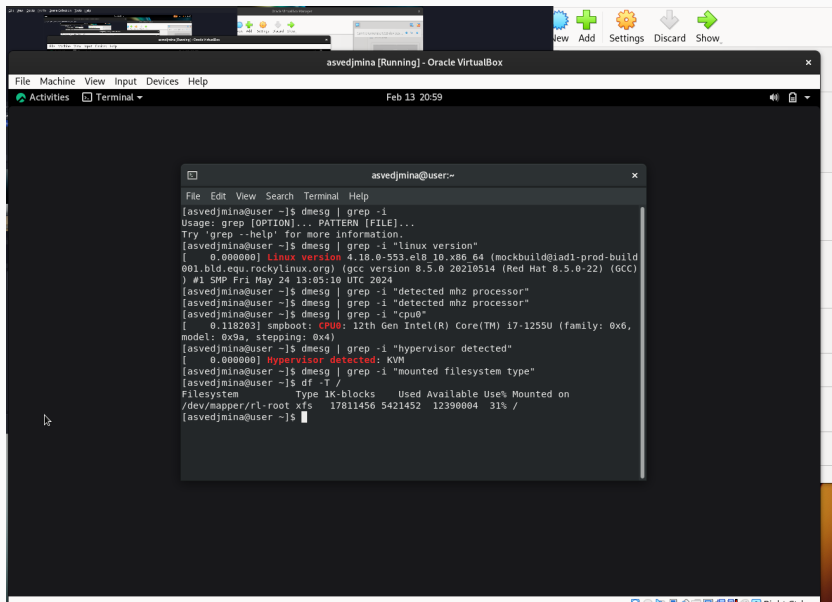
# Выполнение заданий



The screenshot shows a VirtualBox window titled "asvedjmina [Running] - Oracle VirtualBox". Inside the window is a terminal window titled "asvedjmina@user:~". The terminal displays the output of several `dmesg | grep` commands. The first command shows the Linux version and GCC version. The second command shows the detected MHz processor. The third command shows the detected MHz processor. The fourth command shows the CPU model and stepping. The fifth command shows the detected hypervisor (KVM).

```
[asvedjmina@user ~]$ dmesg | grep -i
Usage: grep [OPTION]... PATTERN [FILE]...
Try 'grep --help' for more information.
[asvedjmina@user ~]$ dmesg | grep -i "linux version"
[ 0.000000] Linux version 4.18.0-553.el8_10.x86_64 (mockbuild@iad1-prod-build
001.bld.equ.rockylinux.org) (gcc version 8.5.0 20210514 (Red Hat 8.5.0-22) (GCC)
) #1 SMP Fri May 24 13:05:10 UTC 2024
[asvedjmina@user ~]$ dmesg | grep -i "detected mhz processor"
[asvedjmina@user ~]$ dmesg | grep -i "detected mhz processor"
[asvedjmina@user ~]$ dmesg | grep -i "cpu0"
[ 0.118203] smpboot: CPU0: 12th Gen Intel(R) Core(TM) i7-1255U (family: 0x6,
model: 0x9a, stepping: 0x4)
[asvedjmina@user ~]$ dmesg | grep -i "hypervisor detected"
[ 0.000000] Hypervisor detected: KVM
[asvedjmina@user ~]$
```

# Выполнение заданий



```
asvedjmina [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Feb 13 20:59

asvedjmina@user:~
File Edit View Search Terminal Help
[asvedjmina@user ~]$ dmesg | grep -i
Usage: grep [OPTION]... PATTERN [FILE]...
Try 'grep --help' for more information.
[asvedjmina@user ~]$ dmesg | grep -i "linux version"
[ 0.000000] Linux version 4.18.0-553.el8 10.x86_64 (mockbuild@iad1-prod-build
001.bld.equ.rockylinux.org) (gcc version 8.5.0 20210514 (Red Hat 8.5.0-22) (GCC)
) #1 SMP Fri May 24 13:05:10 UTC 2024
[asvedjmina@user ~]$ dmesg | grep -i "detected mhz processor"
[asvedjmina@user ~]$ dmesg | grep -i "detected mhz processor"
[asvedjmina@user ~]$ dmesg | grep -i "cpu0"
[ 0.118203] smpboot: CPU0: 12th Gen Intel(R) Core(TM) i7-1255U (family: 0x6,
model: 0x9a, stepping: 0x4)
[asvedjmina@user ~]$ dmesg | grep -i "hypervisor detected"
[ 0.000000] Hypervisor detected: KVM
[asvedjmina@user ~]$ dmesg | grep -i "mounted filesystem type"
[asvedjmina@user ~]$ df -T /
Filesystem      Type 1K-blocks    Used Available Use% Mounted on
/dev/mapper/rl-root xfs  17811456 5421452  12390004  31% /
[asvedjmina@user ~]$
```

## Результаты

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В ходе лабораторной работы получилось успешно установить виртуальную машину с rocky linux.