

# Лабораторная работа 1

---

Генералов Даниил, НПИбд-01-21, 1032202280

2022

<sup>1</sup>RUDN University, Moscow, Russian Federation

## Задача

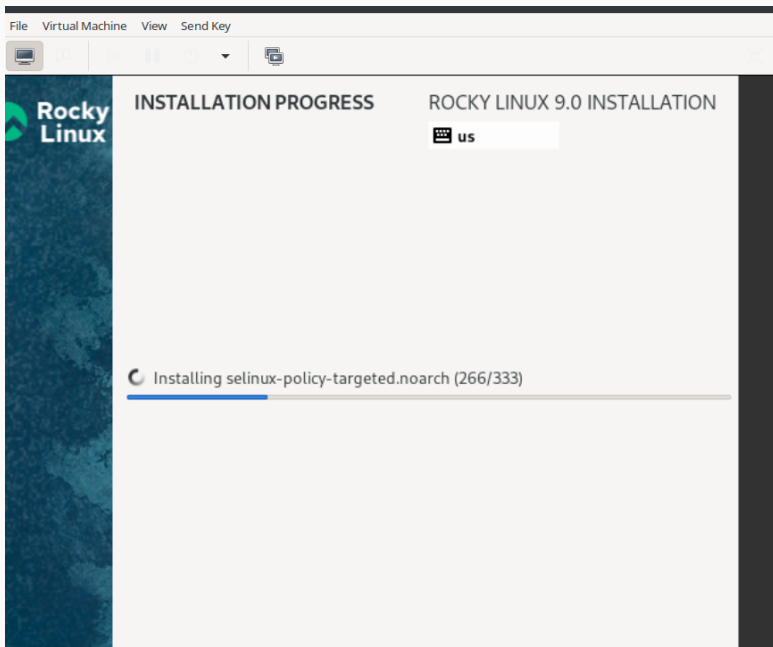
---

Лабораторная работа подразумевает установку на виртуальную машину VirtualBox (<https://www.virtualbox.org/>) операционной системы Linux (дистрибутив Rocky (<https://rockylinux.org/>) или CentOS (<https://www.centos.org/>)). Выполнение работы возможно как в дисплейном классе факультета физико-математических и естественных наук РУДН, так и дома. Описание выполнения работы приведено для дисплейного класса со следующими характеристиками:

- Intel Core i3-550 3.2 GHz, 4 GB оперативной памяти, 20 GB свободного места на жёстком диске;
- ОС Linux Gentoo (<http://www.gentoo.ru/>);
- VirtualBox верс. 6.1 или старше;
- каталог с образами ОС для работающих в дисплейном классе: [/afs/dk.sci.pfu.edu.ru/common/files/iso/](https://afs.dk.sci.pfu.edu.ru/common/files/iso/)

## Выполнение

---



# Проверка свойств установки

```
linux2022 on QEMU/KVM
File Virtual Machine View Send Key

[dmgeneralov@localhost ~]$ dmesg | grep "file system"
[dmgeneralov@localhost ~]$ dmesg | grep "ext4"
[dmgeneralov@localhost ~]$ dmesg | grep -i "xfs"
grep: s: No such file or directory
[dmgeneralov@localhost ~]$ dmesg | grep -i "xfs"
[ 4.144012] SGI XFS with ACLs, security attributes, scrub, quota, no debug enabled
[ 4.140637] XFS (dm-0): Mounting U5 Filesystem
[ 4.426220] XFS (dm-0): Ending clean mount
[ 5.640093] XFS (vdal): Mounting U5 Filesystem
[ 5.650156] XFS (vdal): Ending clean mount
[dmgeneralov@localhost ~]$ dmesg | grep -i "mount"
[ 0.140664] Mount-cache hash table entries: 4096 (order: 3, 32768 bytes, linear)
[ 0.140664] Mountpoint-cache hash table entries: 4096 (order: 3, 32768 bytes, linear)
[ 4.140637] XFS (dm-0): Mounting U5 Filesystem
[ 4.426220] XFS (dm-0): Ending clean mount
[ 5.270340] systemd(1): Set up automount Arbitrary Executable File Formats File System Automount Point.
[ 5.353400] systemd(1): Mounting Huge Pages File System...
[ 5.341112] systemd(1): Mounting POSIX Message Queue File System...
[ 5.344066] systemd(1): Mounting Kernel Debug File System...
[ 5.346794] systemd(1): Mounting Kernel Trace File System...
[ 5.411562] systemd(1): Starting Remount Root and Kernel File Systems...
[ 5.443093] systemd(1): Mounted Huge Pages File System.
[ 5.444753] systemd(1): Mounted POSIX Message Queue File System.
[ 5.446499] systemd(1): Mounted Kernel Debug File System.
[ 5.453176] systemd(1): Mounted Kernel Trace File System.
[ 5.640093] XFS (vdal): Mounting U5 Filesystem
[ 5.650156] XFS (vdal): Ending clean mount
[dmgeneralov@localhost ~]$ sudo hostnamectl set-hostname dmgeneralov

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.

[dmgeneralov@localhost ~]$ dmesg | grep "Linux version"
[ 0.000000] Linux version 5.14.0-78.13.1.el9_0.x86_64 (mockbuild@dal1-prod-builder001.bld.equ.rockylinux.org) (gcc (GCC) 11.2.1 20220127 (Red Hat 11.2.1-9),
GNU ld version 2.35.2-17.el9) #1 SMP PREEMPT Wed May 25 21:01:57 UTC 2022
[dmgeneralov@localhost ~]$ dmesg | grep "Hz"
[ 0.000001] tsc: detected 2007.930 Mhz processor
[dmgeneralov@localhost ~]$ dmesg | grep "CPU"
[ 0.140664] smpboot: CPU0: Intel(R) Core(TM) i7-7700HQ CPU @ 2.00GHz (family: 0x6, model: 0x9c, stepping: 0x9)
[dmgeneralov@localhost ~]$ dmesg | grep "Memory"
[ 0.833735] Memory: 268060K/2896616K available (14345K kernel code, 5945K rwdata, 9852K rodata, 2540K init, 5460K bss, 319900K reserved, 0K cma-reserved)
[ 0.105725] x86-mm: Memory block size: 128MB
[ 6.995036] i2c i2c-0: Memory type 0x07 not supported yet, not instantiating SPD
[dmgeneralov@localhost ~]$ dmesg | grep "hypervisor"
[ 0.000000] Hypervisor detected: KVM
[dmgeneralov@localhost ~]$
```

*Результатом моей работы оказалась рабочая установка системы Rocky Linux, которую я затем смогу использовать для выполнения последующих лабораторных работ.*