

Докладчик

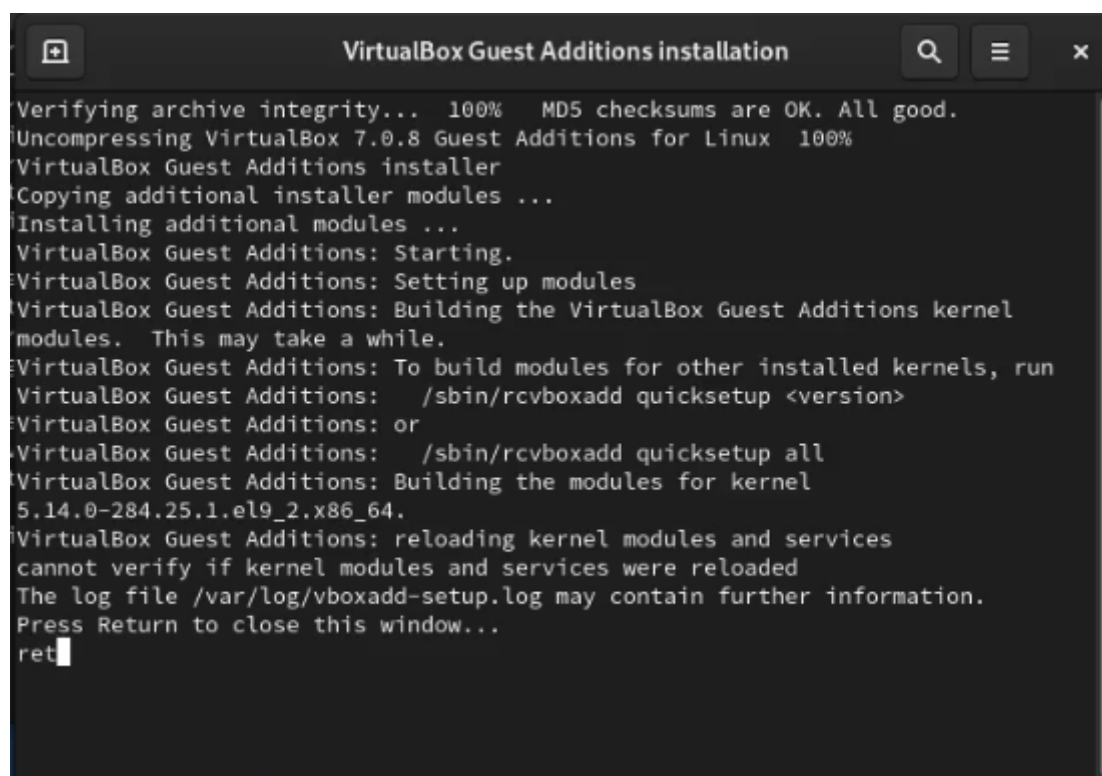
- Ду Нашсименту Висенте феликс Жозе
- студент группы НКНбд-01-20
- Факультет физико-математических и естественных наук
- Российский университет дружбы народов
- <https://github.com/kpatocfelix>

Цель работы

Установка и конфигурация операционной системы на виртуальную машину

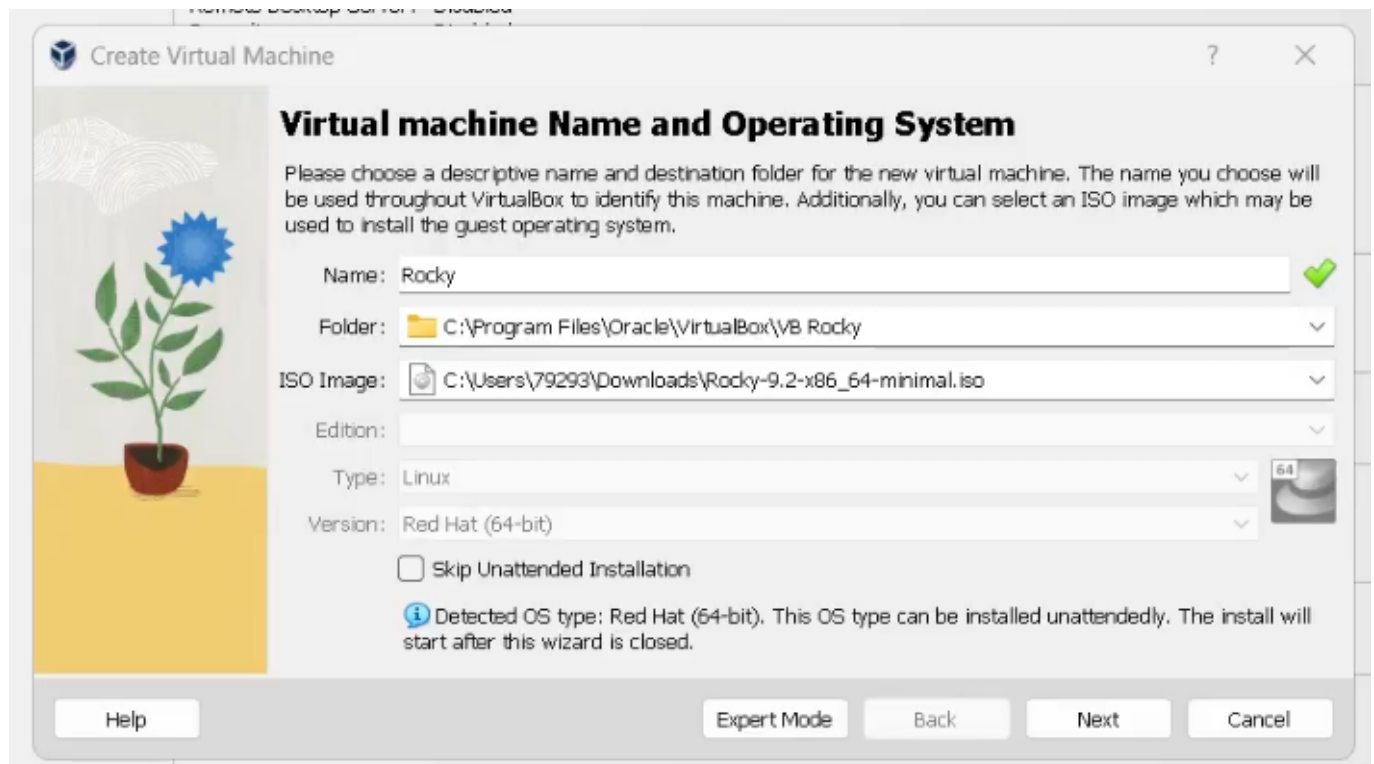
Теоретическое введение

Виртуальная машина Программная и/или аппаратная система, эмулирующая аппаратное обеспечение компьютера и исполняющая программы для guest-платформы на host-платформе или виртуализирующая некоторую платформу и создающая на ней среды, изолирующие друг от друга программы и даже операционные системы; также спецификация некоторой вычислительной среды



```
VirtualBox Guest Additions installation
Verifying archive integrity... 100% MD5 checksums are OK. All good.
Uncompressing VirtualBox 7.0.8 Guest Additions for Linux 100%
VirtualBox Guest Additions installer
Copying additional installer modules ...
Installing additional modules ...
VirtualBox Guest Additions: Starting.
VirtualBox Guest Additions: Setting up modules
VirtualBox Guest Additions: Building the VirtualBox Guest Additions kernel
modules. This may take a while.
VirtualBox Guest Additions: To build modules for other installed kernels, run
VirtualBox Guest Additions: /sbin/rcvboxadd quicksetup <version>
VirtualBox Guest Additions: or
VirtualBox Guest Additions: /sbin/rcvboxadd quicksetup all
VirtualBox Guest Additions: Building the modules for kernel
5.14.0-284.25.1.el9_2.x86_64.
VirtualBox Guest Additions: reloading kernel modules and services
cannot verify if kernel modules and services were reloaded
The log file /var/log/vboxadd-setup.log may contain further information.
Press Return to close this window...
ret
```

Выполнение лабораторной работы



Create Virtual Machine

Virtual machine Name and Operating System

Please choose a descriptive name and destination folder for the new virtual machine. The name you choose will be used throughout VirtualBox to identify this machine. Additionally, you can select an ISO image which may be used to install the guest operating system.

Name: ✓

Folder: ▼

ISO Image: ▼

Edition: ▼

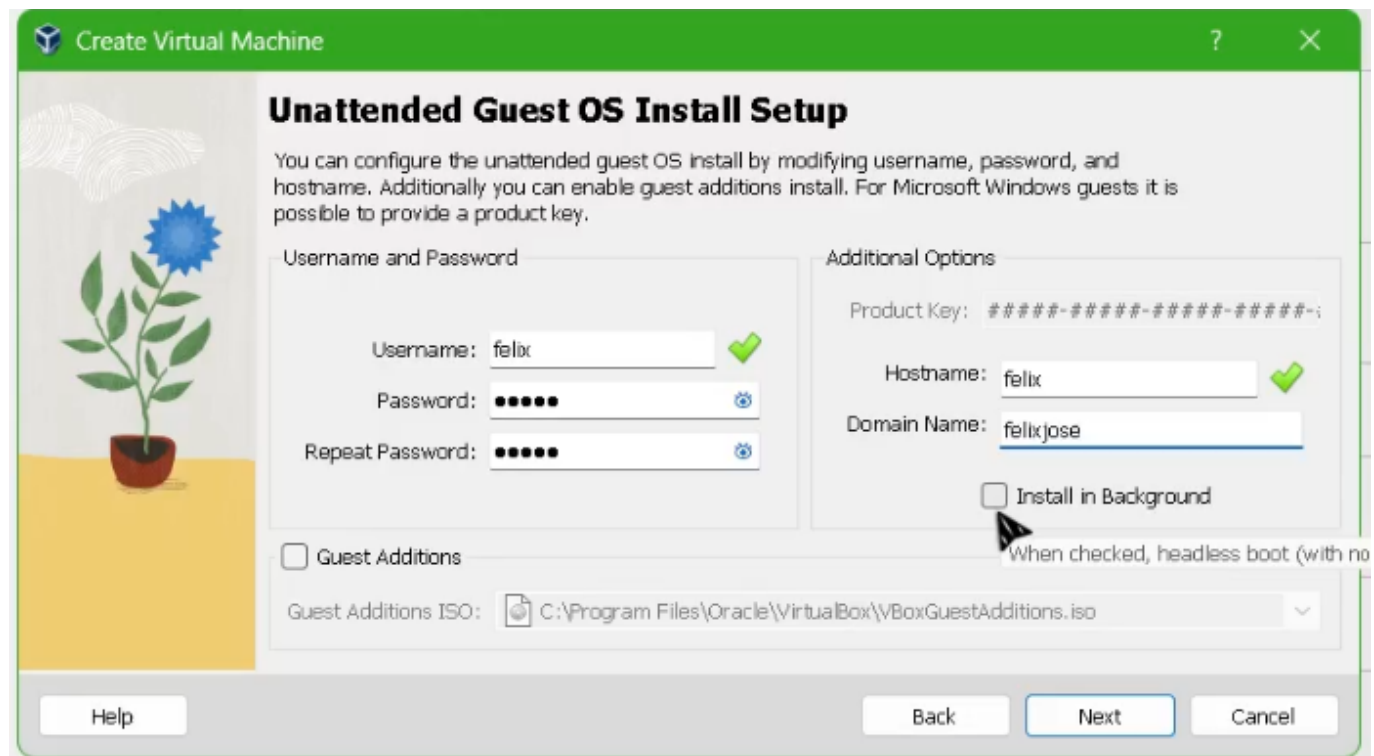
Type: Linux ▼

Version: Red Hat (64-bit) ▼

☐ Skip Unattended Installation

Detected OS type: Red Hat (64-bit). This OS type can be installed unattendedly. The install will start after this wizard is closed.

Help Expert Mode Back Next Cancel



Create Virtual Machine

Unattended Guest OS Install Setup

You can configure the unattended guest OS install by modifying username, password, and hostname. Additionally you can enable guest additions install. For Microsoft Windows guests it is possible to provide a product key.

Username and Password

Username: ✓

Password:

Repeat Password:

☐ Guest Additions

Guest Additions ISO: ▼

Additional Options

Product Key:

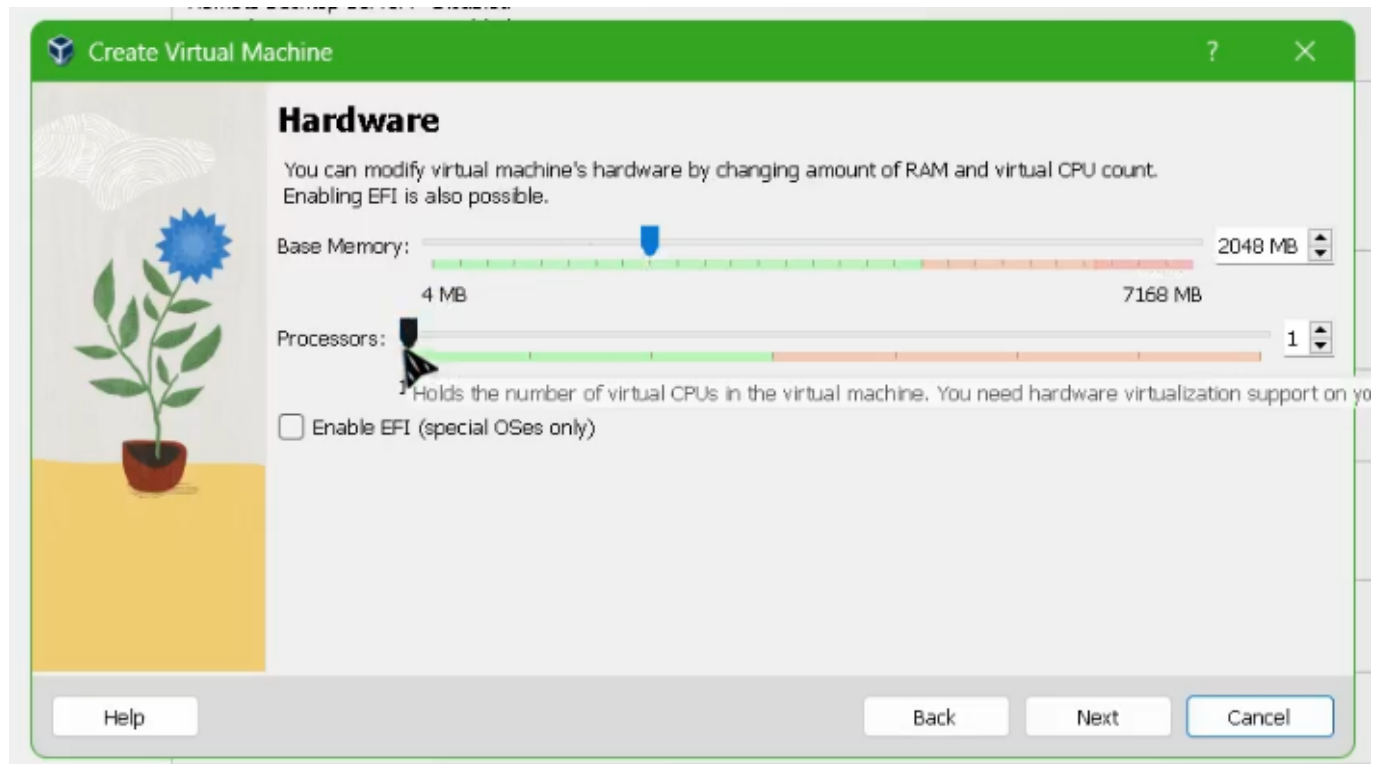
Hostname: ✓

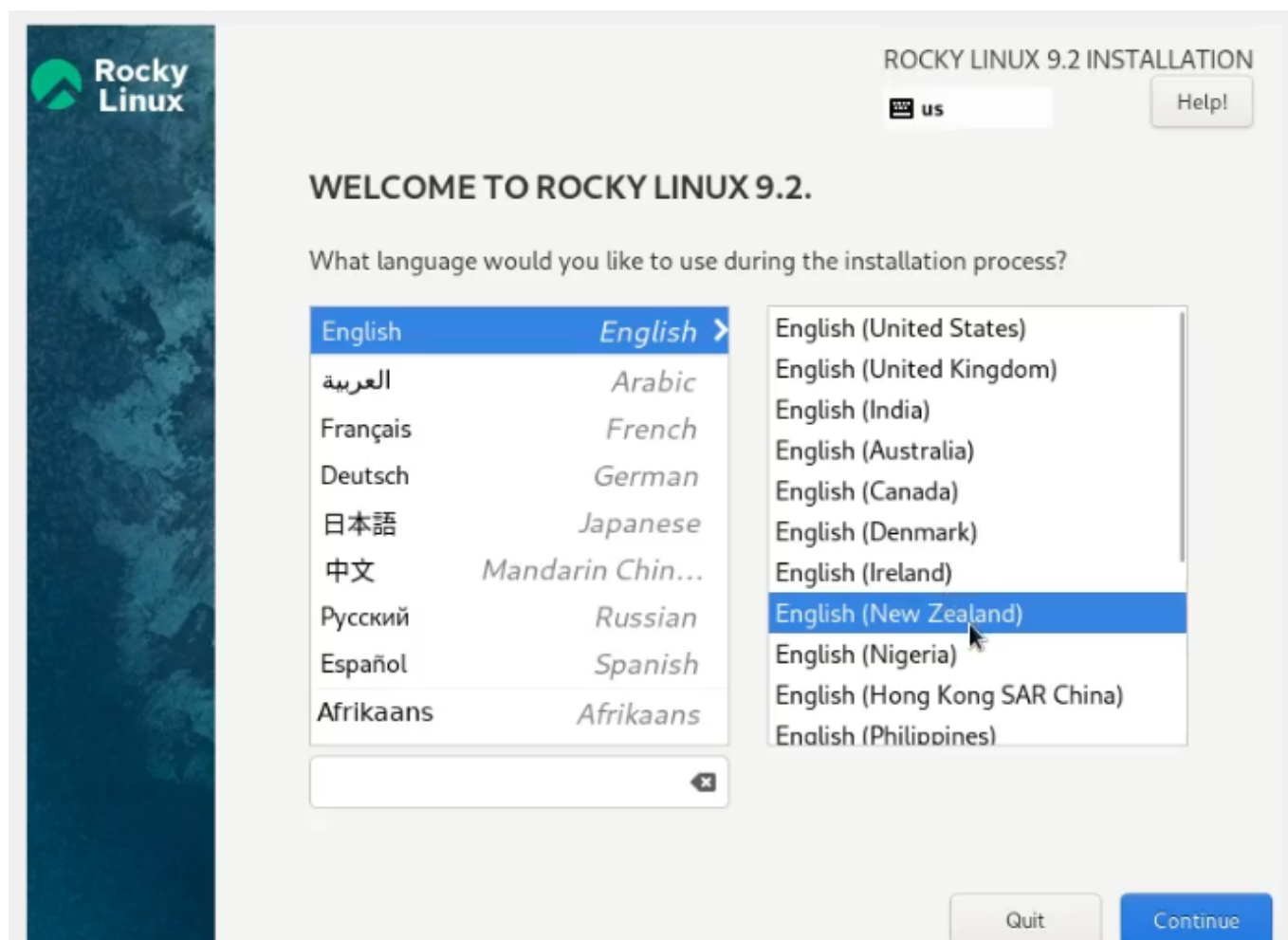
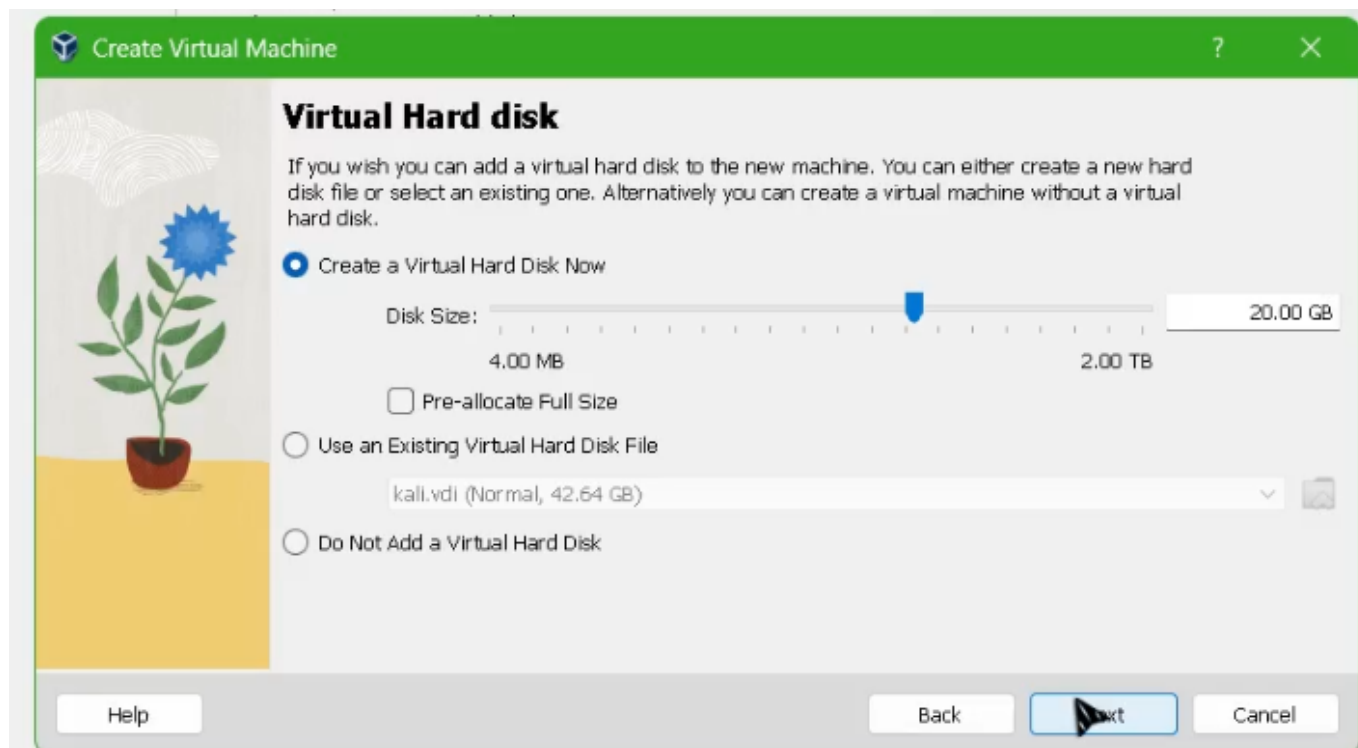
Domain Name:


☐ Install in Background

When checked, headless boot (with no

Help Back Next Cancel








INSTALLATION SUMMARY

us


Help!

LOCALIZATION




Keyboard

English (US)



Language Support


English (United States)



Time & Date


Americas/New York timezone

SOFTWARE



Installation Source


Closest mirror



Software Selection


Server with GUI

SYSTEM




Installation Destination

Automatic partitioning selected




KDUMP

Kdump is enabled



Network & Host Name

Connected: enp0s3




Security Profile

No profile selected

Quit

Begin Installation

We won't touch your disks until you click 'Begin Installation'.

 Please complete items marked with this icon before continuing to the next step.

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INSTALLATION SOURCE

ROCKY LINUX 9.2 INSTALLATION

Done

us

Help!

Which installation source would you like to use?

☒ On the network:

Closest mirror ▼

Proxy setup...

URL type: repository URL ▼

Additional repositories

Enabled	Name

+

-

↺

Name:

http:// ▼

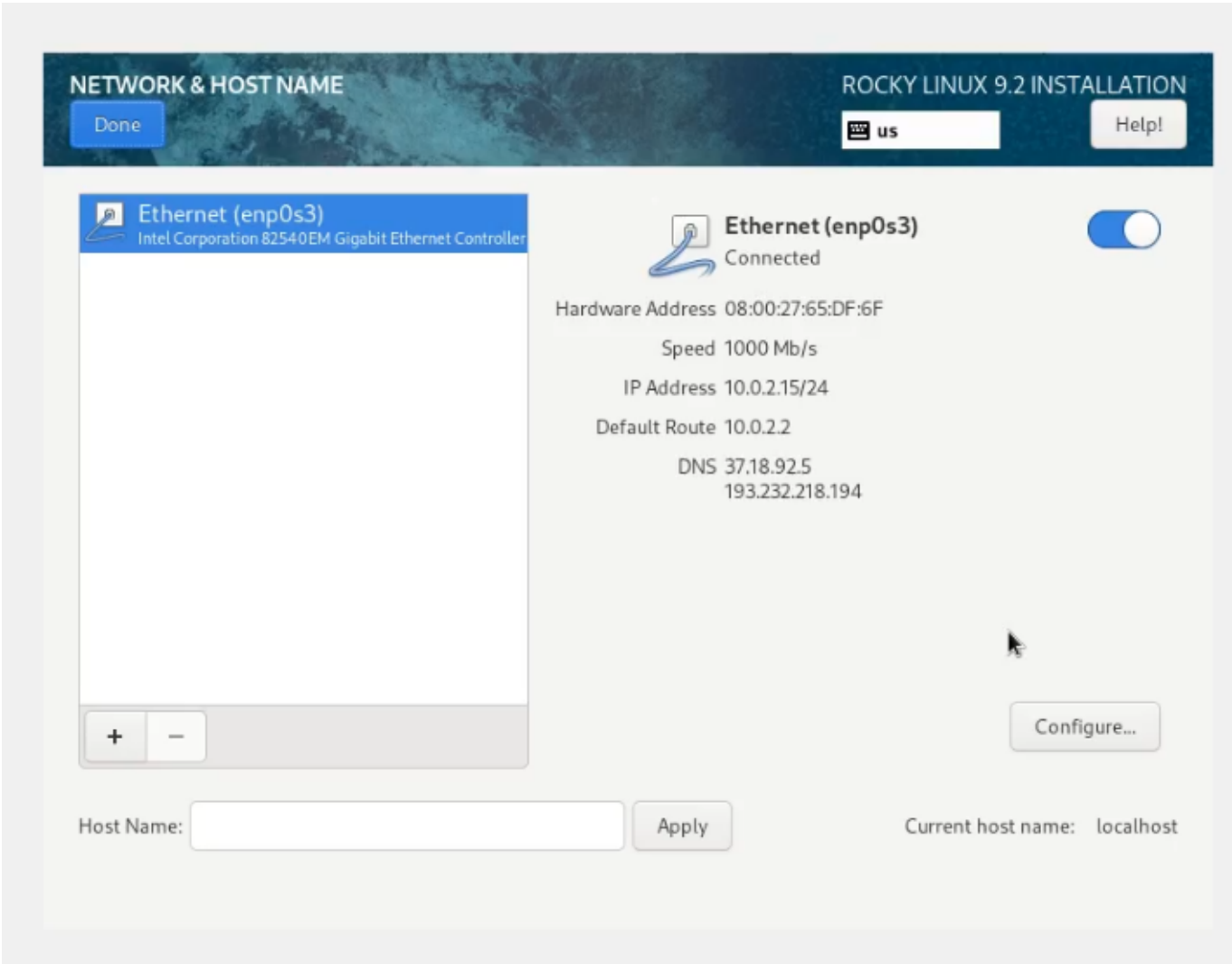
URL type:

repository URL ▼

Proxy URL:

User name:


Password:



INSTALLATION DESTINATION

ROCKY LINUX 9.2 INSTALLATION

Done

 us


Help!

Device Selection

Select the device(s) you'd like to install to. They will be left untouched until you click on the main menu's "Begin Installation" button.

Local Standard Disks

31.27 GiB




ATA VBOX HARDDISK

sda / 31.27 GiB free

Disks left unselected here will not be touched.

Specialized & Network Disks

 Add a disk...

Disks left unselected here will not be touched.

Storage Configuration

☒ Automatic

☐ Custom

☐ I would like to make additional space available.

-

..

[Full disk summary and boot loader...](#)

1 disk selected; 31.27 GiB capacity; 31.27 GiB free [Refresh...](#)

INSTALLATION DESTINATION

ROCKY LINUX 9.2 INSTALLATION

RECLAIM DISK SPACE

You can remove existing file systems you no longer need to free up space for this installation. Removing a file system will permanently delete all of the data it contains.

Disk	Name	File System	Reclaimable Space	Action
▼ 31.3 GiB ATA VBOX HARDDISK	sda	Unknown	31.27 GiB total	Preserve
Free space			31.3 GiB	

Preserve

Delete

Shrink

Delete all

1 disk; 31.27 GiB reclaimable space (in file systems)

Total selected space to reclaim: 0

Installation requires a total of 7.92 GiB for system data.

Cancel

Reclaim space

SOFTWARE SELECTION

ROCKY LINUX 9.2 INSTALLATION

Done

us

Help!

Base Environment

☒ **Server with GUI**
An integrated, easy-to-manage server with a graphical interface.

☐ **Server**
An integrated, easy-to-manage server.

☐ **Minimal Install**
Basic functionality.

☐ **Workstation**
Workstation is a user-friendly desktop system for laptops and PCs.

☐ **Custom Operating System**
Basic building block for a custom Rocky Linux system.

☐ **Virtualization Host**
Minimal virtualization host.

Additional software for Selected Environment

Smallest possible virtualization host installation.

☐ **Virtualization Tools**
Tools for offline virtual image management.

☐ **Basic Web Server**
These tools allow you to run a Web server on the system.

☐ **Legacy UNIX Compatibility**
Compatibility programs for migration from or working with legacy UNIX environments.

☐ **Console Internet Tools**
Console internet access tools, often used by administrators.


☐ **Container Management**
Tools for managing Linux containers

☒ **Development Tools**
A basic development environment.

☐ **.NET Development**
Tools to develop and/or run .NET applications


☐ **Graphical Administration Tools**
Graphical system administration tools for managing many aspects of a system.


☐ **Headless Management**
Tools for managing the system without an attached





INSTALLATION SUMMARY


ROCKY LINUX 9.2 INSTALLATION


 **Keyboard**
English (US)


 **Installation Source**
Closest mirror


 **Installation Destination**
Automatic partitioning selected


 **Language Support**
English (United States)

 **Software Selection**
Server with GUI


 **KDUMP**
Kdump is enabled

 **Time & Date**
Americas/New York timezone

 **Network & Host Name**
Connected: enp0s3

 **Security Profile**
No profile selected

USER SETTINGS

 **Root Password**
Root account is disabled


us

Help!

Quit

Begin Installation

We won't touch your disks until you click 'Begin Installation'.

 Please complete items marked with this icon before continuing to the next step.

ROOT PASSWORD

ROCKY LINUX 9.2 INSTALLATION

Done

us

Help!

The root account is used for administering the system. Enter a password for the root user.

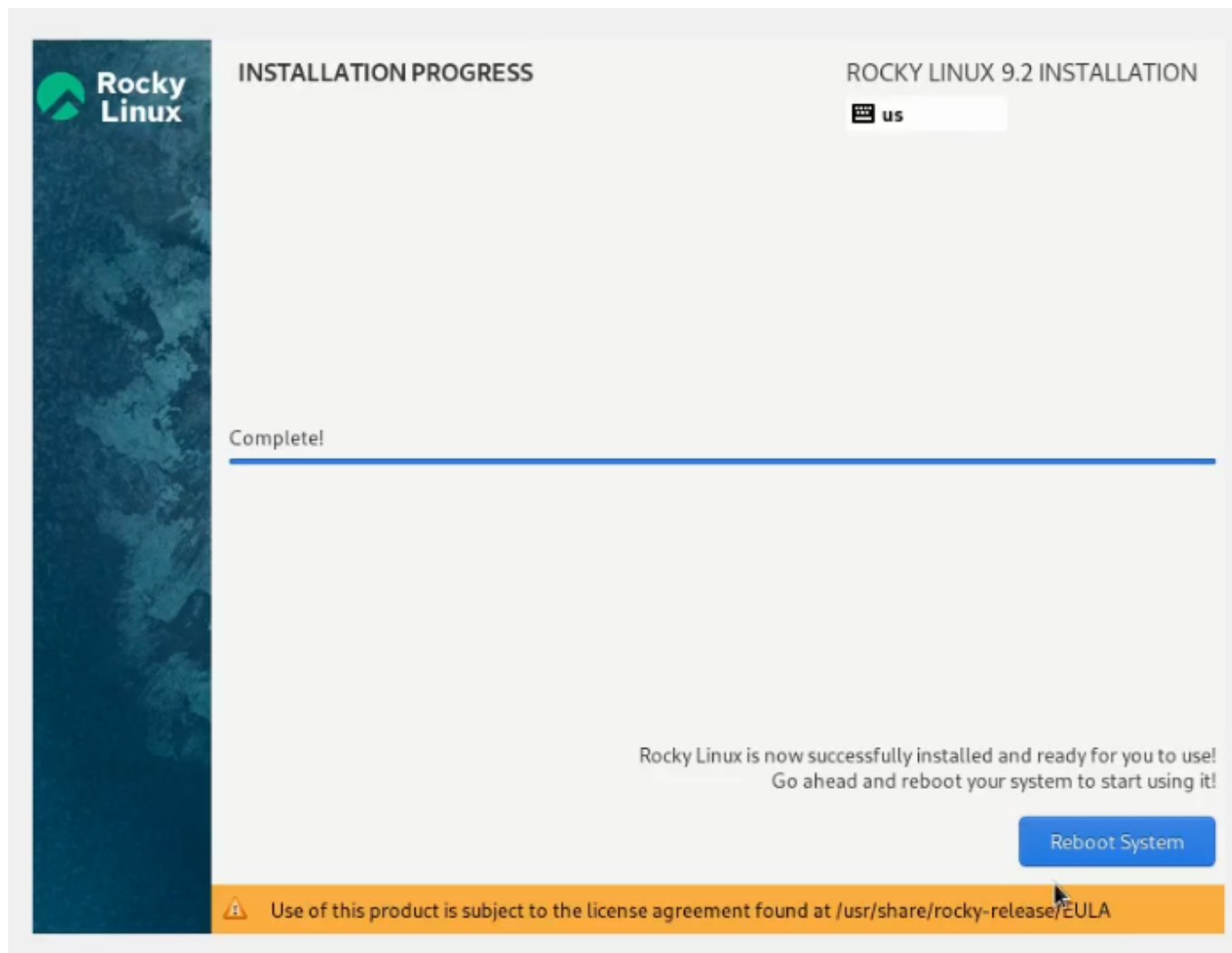
Root Password:

Strong

Confirm:

☐ Lock root account

☐ Allow root SSH login with password



Выводы

Мы установили и настроили систему, которую будем использовать во время дисциплины, и узнали, как установить операционную систему Rocky linux 9.