

МИНОБРНАУКИ РОССИИ

Федеральное государственное бюджетное образовательное учреждение
высшего образования

**«САРАТОВСКИЙ НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ
ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ ИМЕНИ Н.Г.
ЧЕРНЫШЕВСКОГО»**

Кафедра теоретических основ
компьютерной безопасности и
криптографии

Установка Fedora

ОТЧЕТ ПО ДИСЦИПЛИНЕ

«ОСНОВЫ ПОСТРОЕНИЯ ЗАЩИЩЕННЫХ БАЗ ДАННЫХ»

студента 4 курса 431 группы

специальности 10.05.01 Компьютерная безопасность

факультета компьютерных наук и информационных технологий

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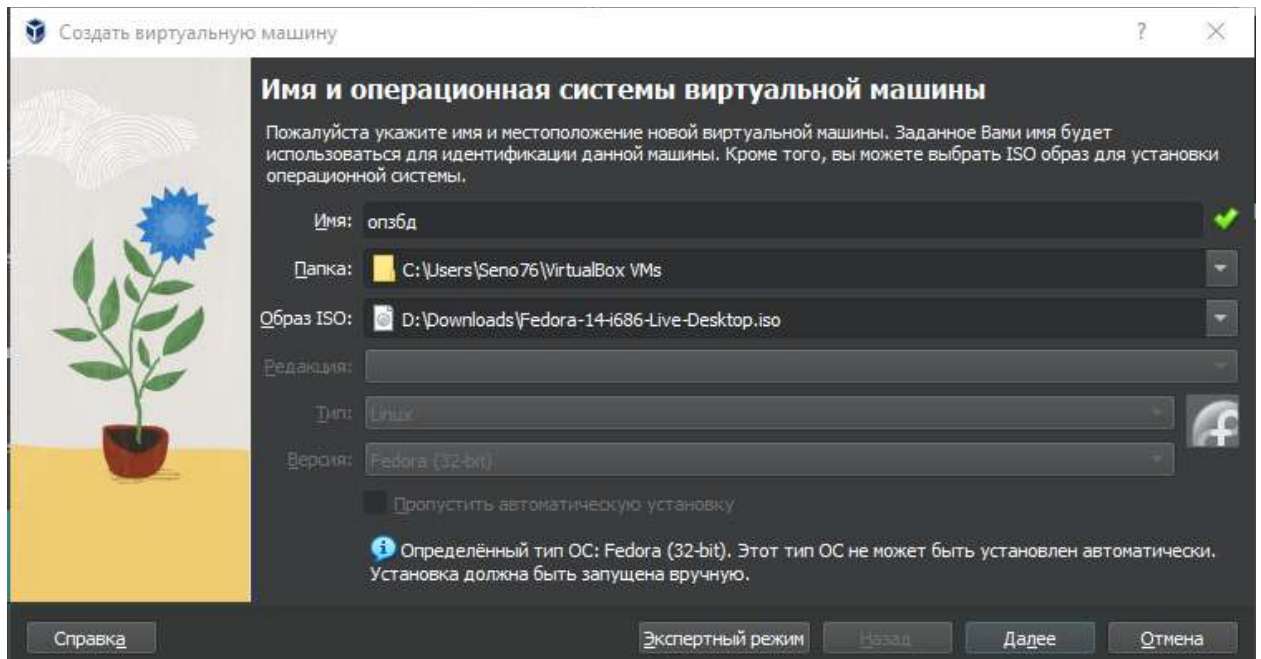
подпись, дата

А. С. Гераськин

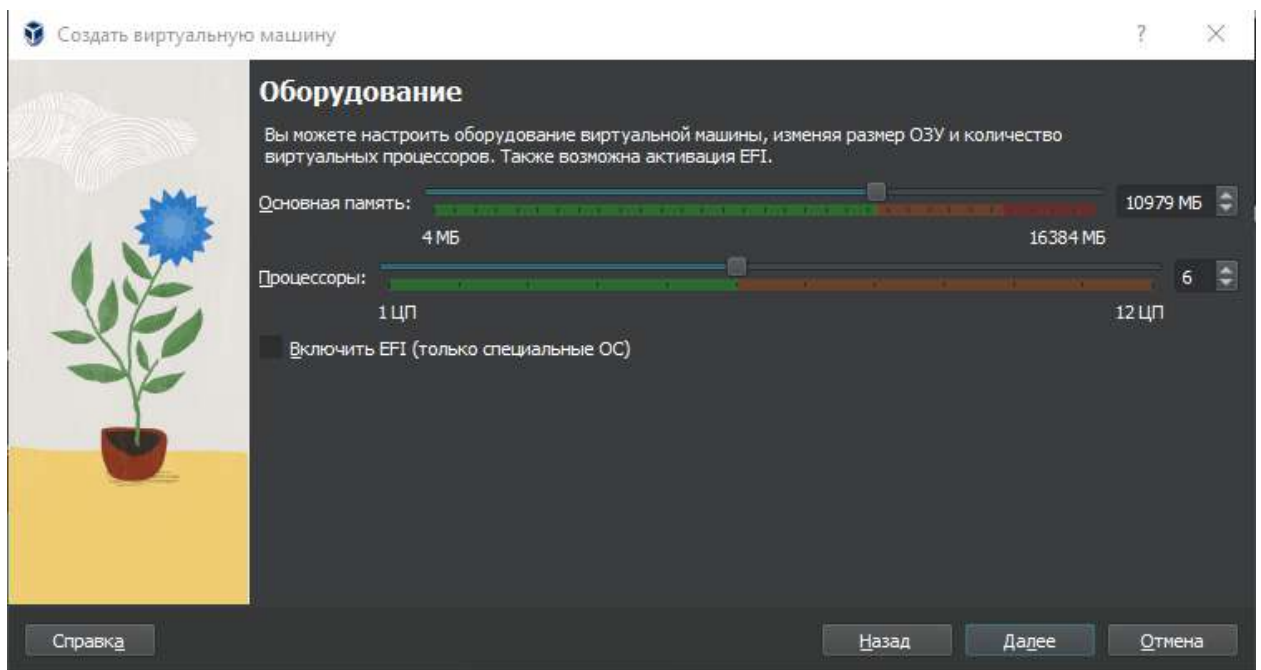
Саратов 2024

В качестве исследовательской деятельности будем использовать программу для виртуализации Oracle VirtualBox с операционной системой Linux GNU – Fedora 14. Произведем настройку виртуальной машины для начала работы.

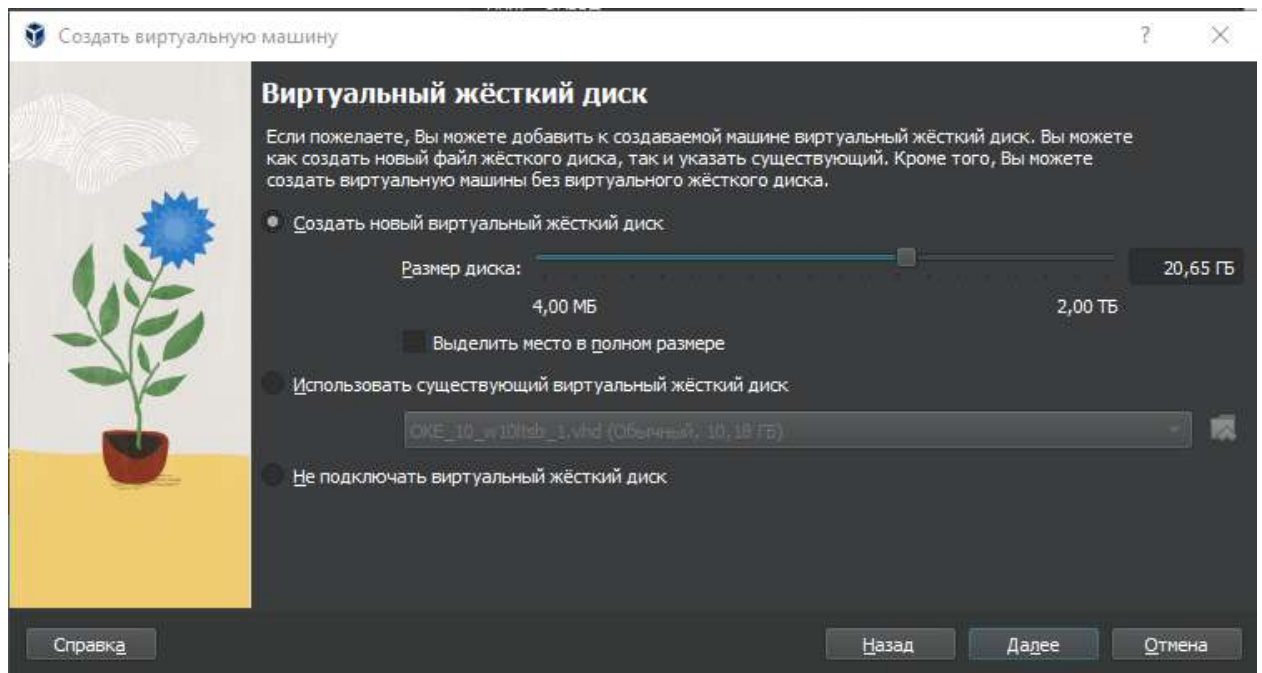
Создание виртуальной машины Fedora 14 и определение ее параметров:



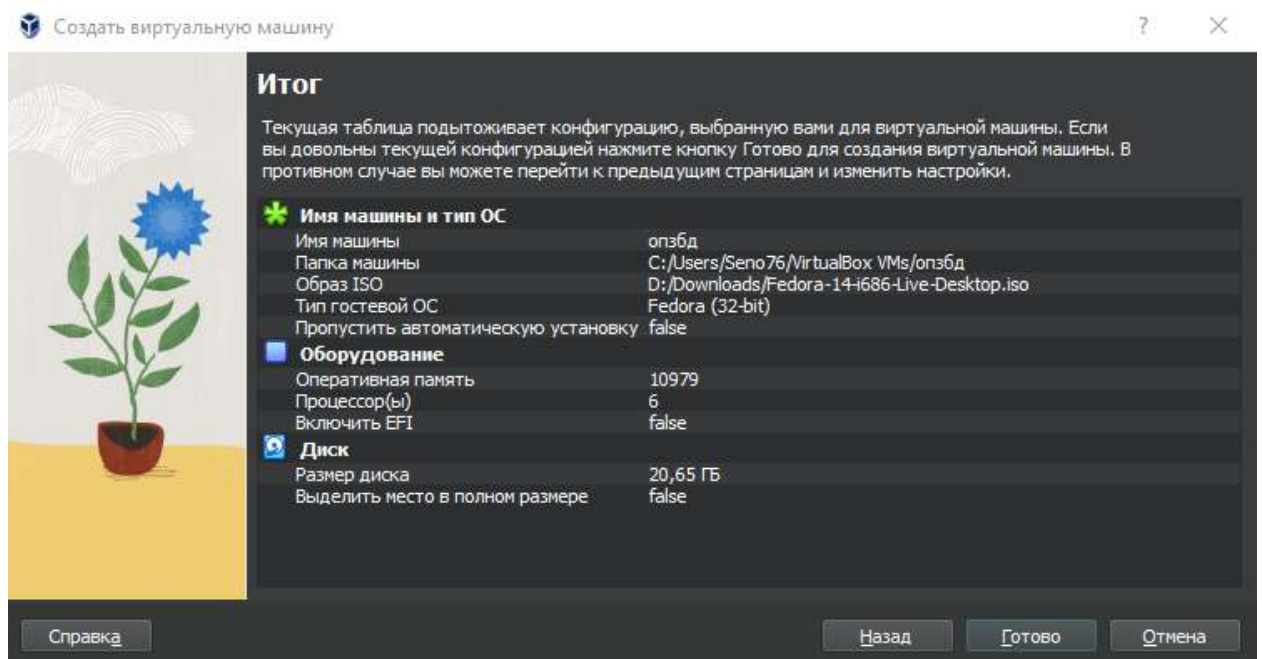
Выделяем оперативную память и процессоры под виртуальную машину:



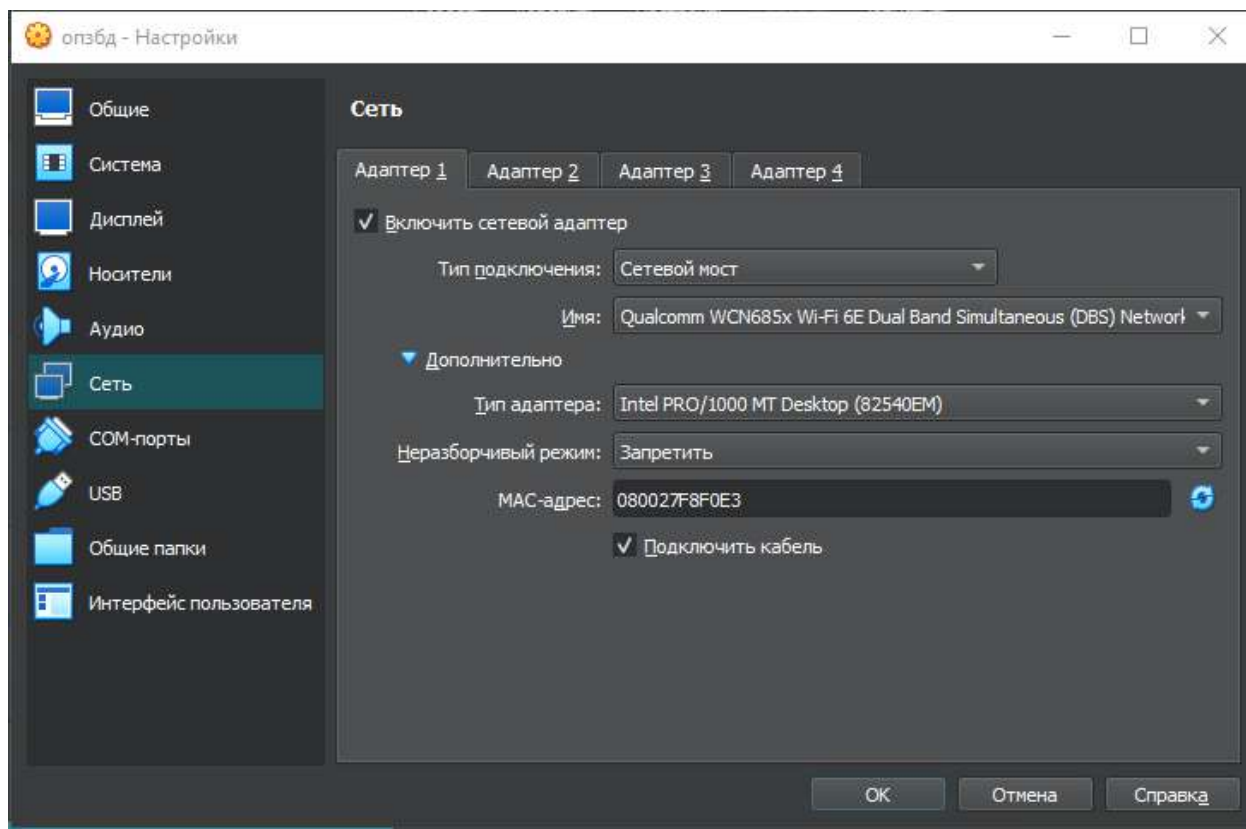
Определение размера памяти виртуального жесткого диска:



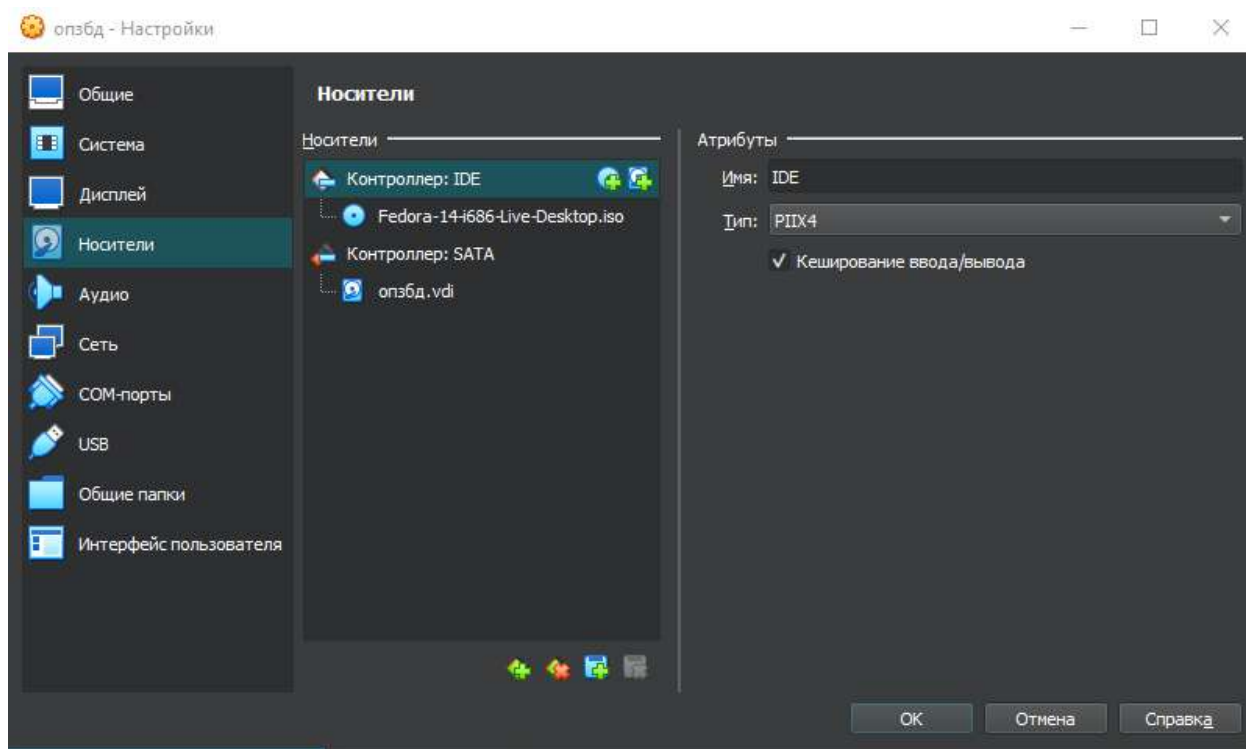
Итоговая настройка виртуальной машины:



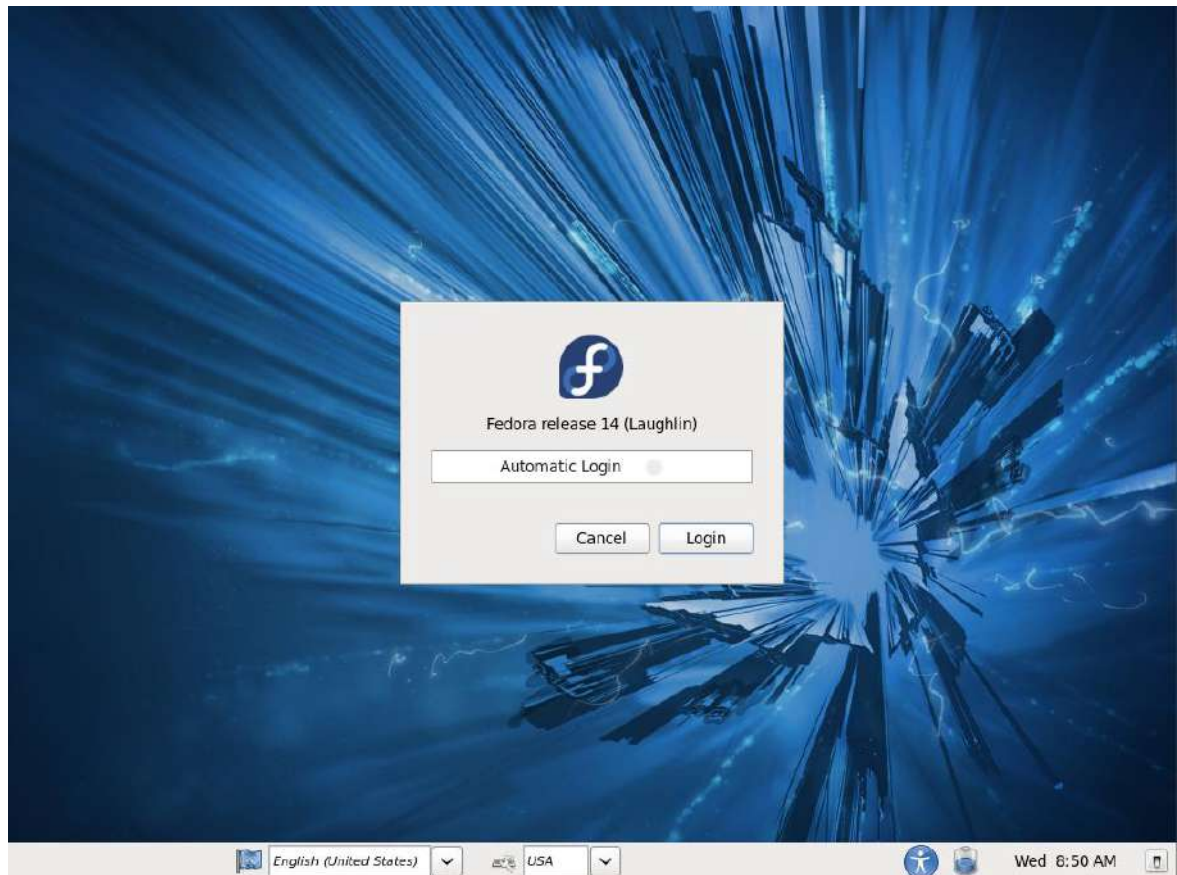
Устанавливаем параметры сети – Сетевой мост:



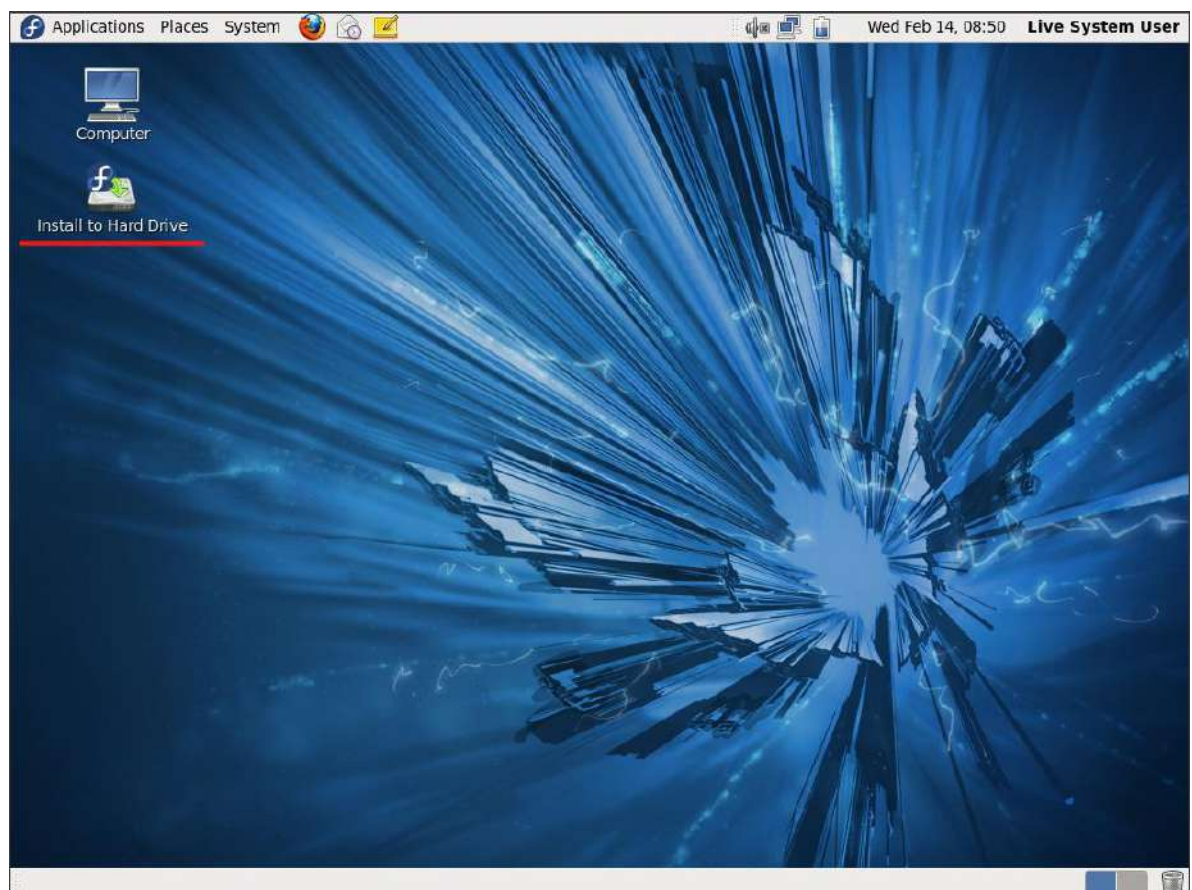
Устанавливаем параметры для дисков, а также прикручиваем оптический привод:



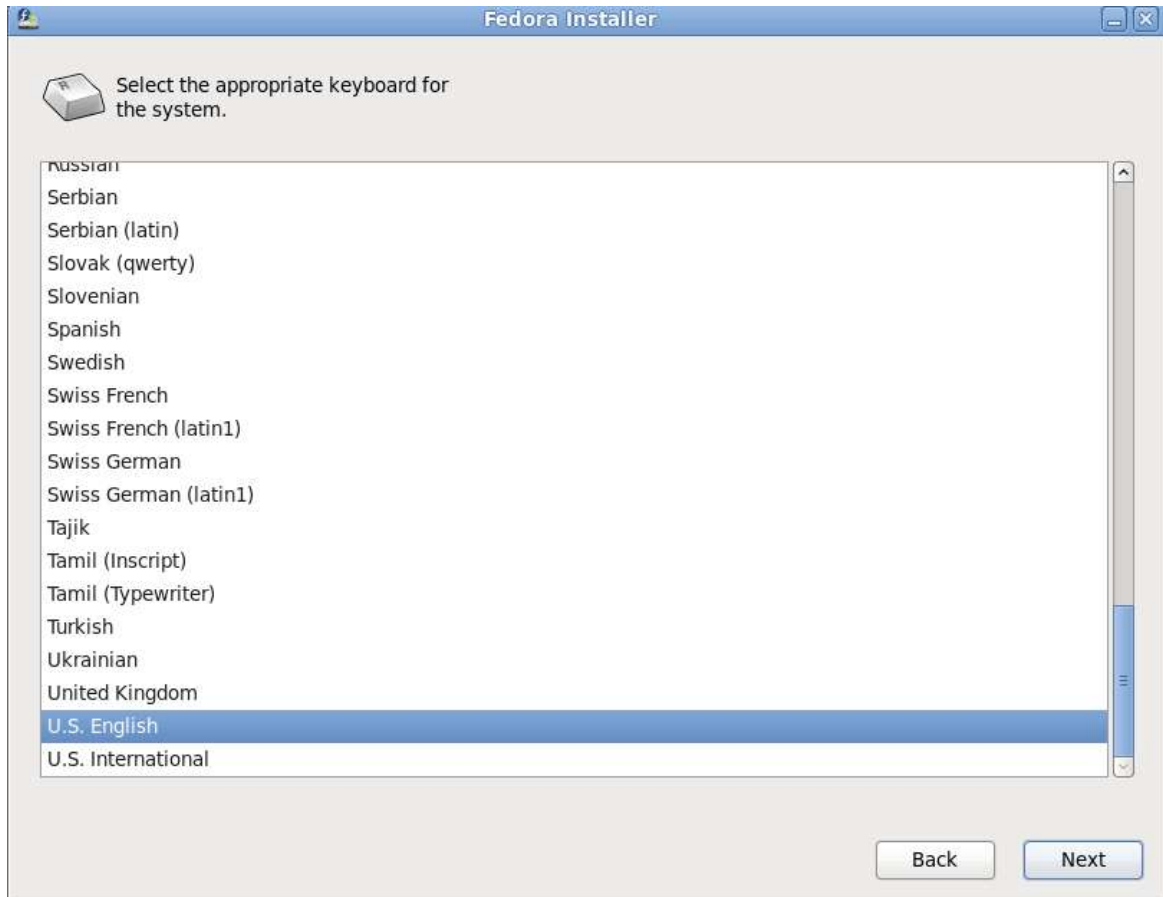
Производим установку операционной системы:



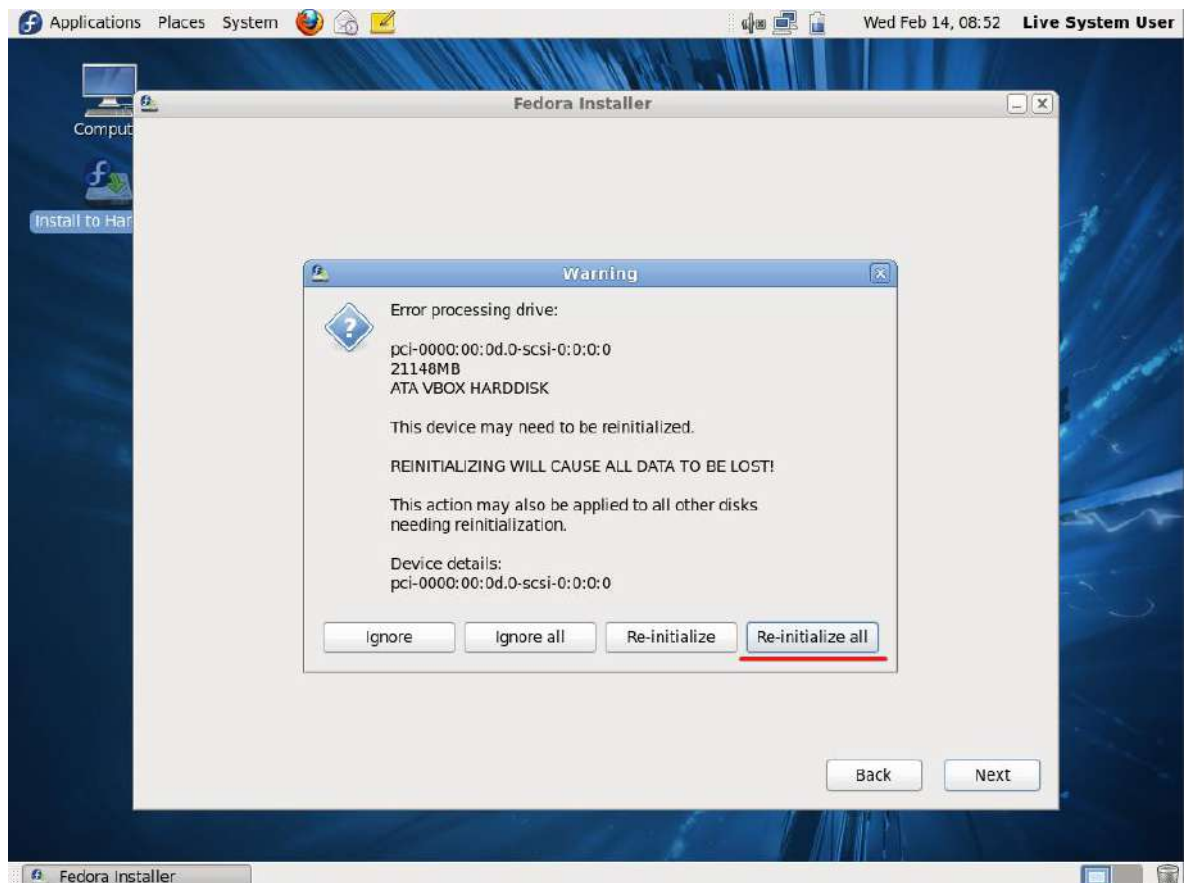
Установка на выделенный жесткий диск:



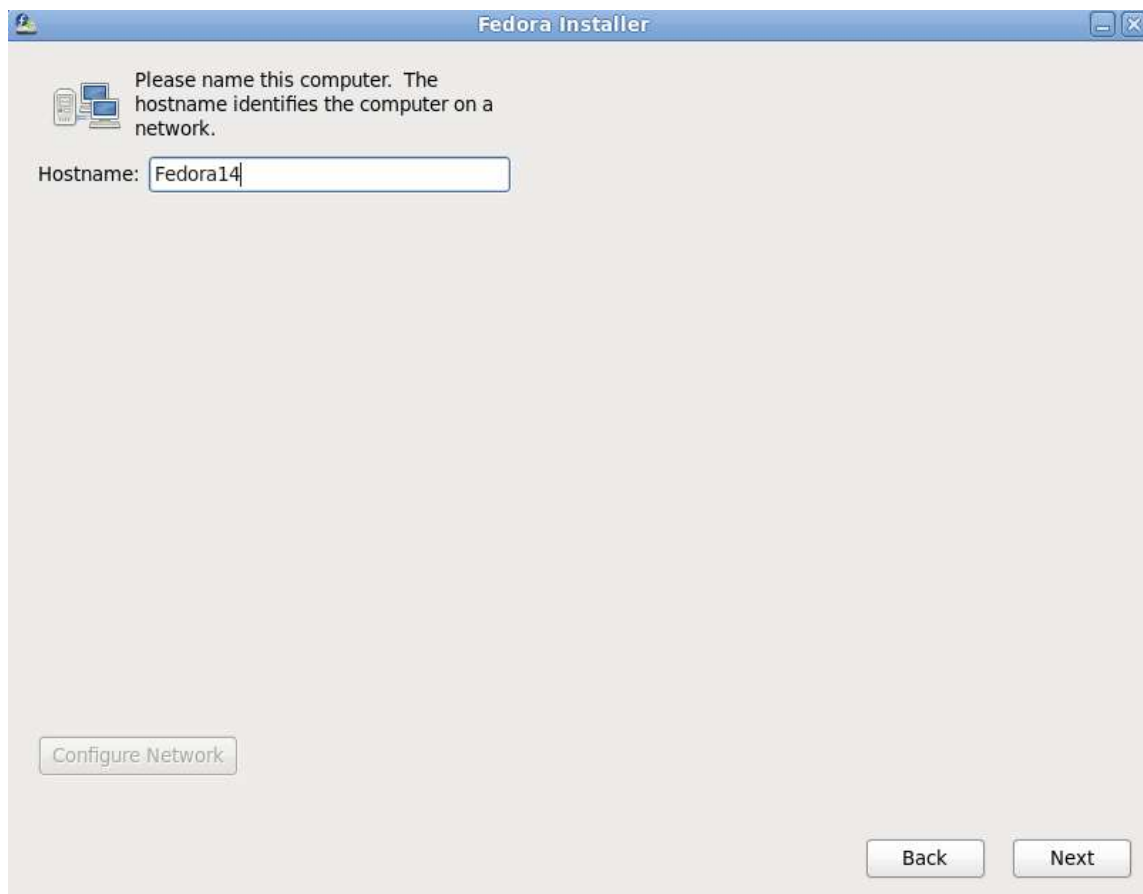
Выбираем язык на английский:



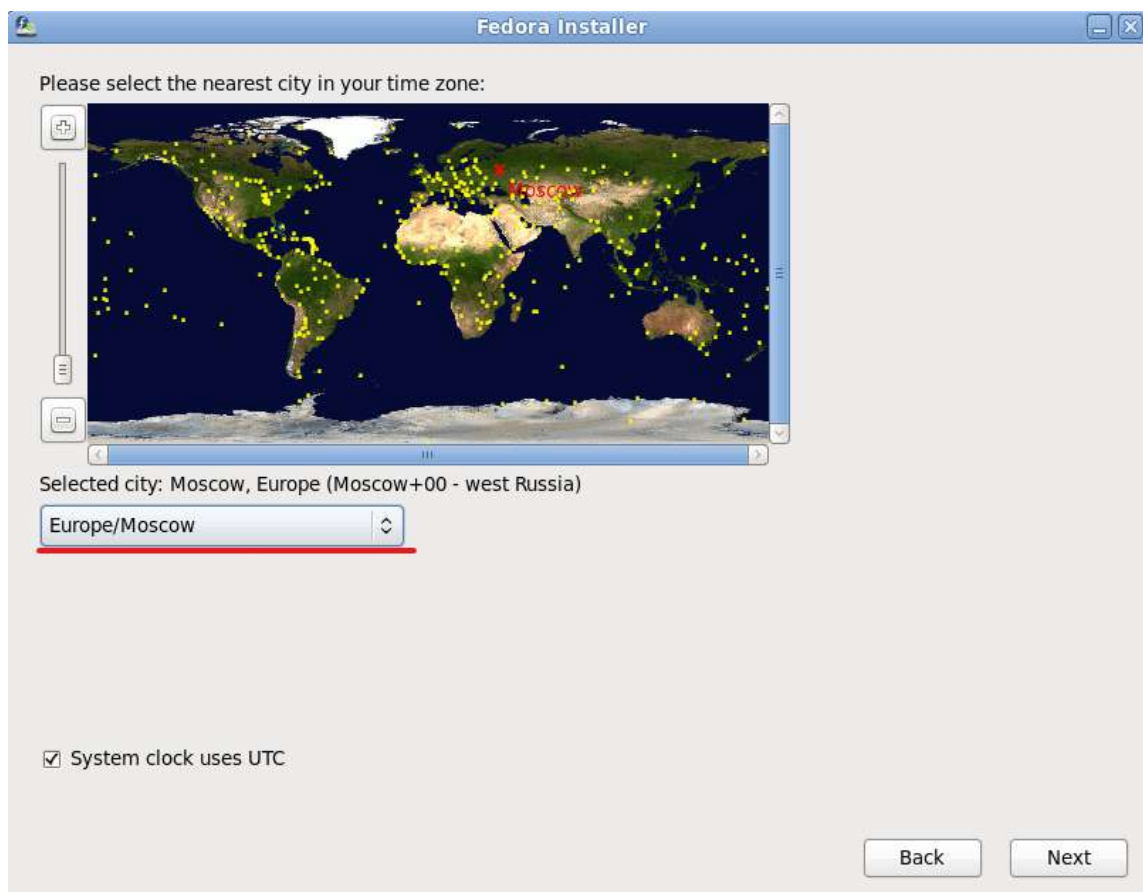
Приступаем к разметке жесткого диска:



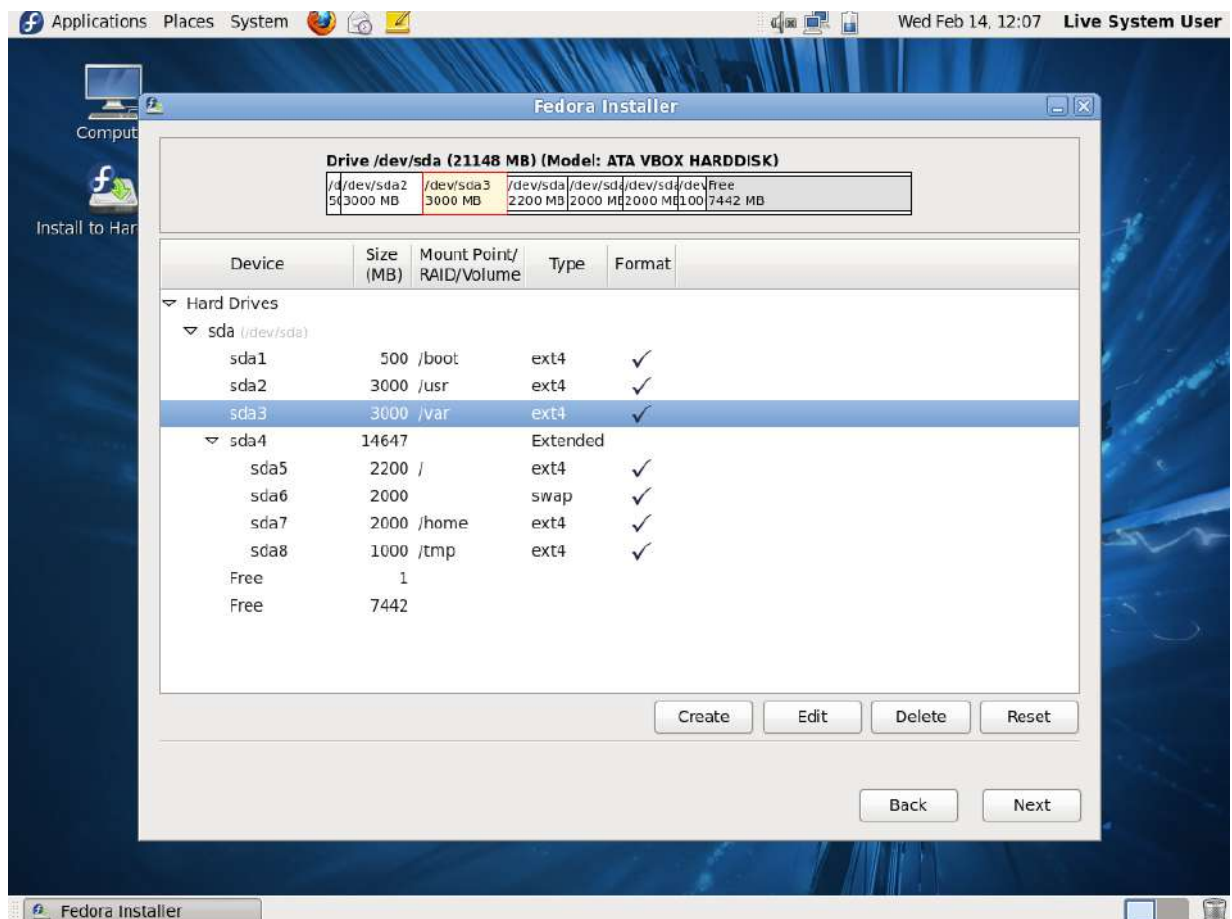
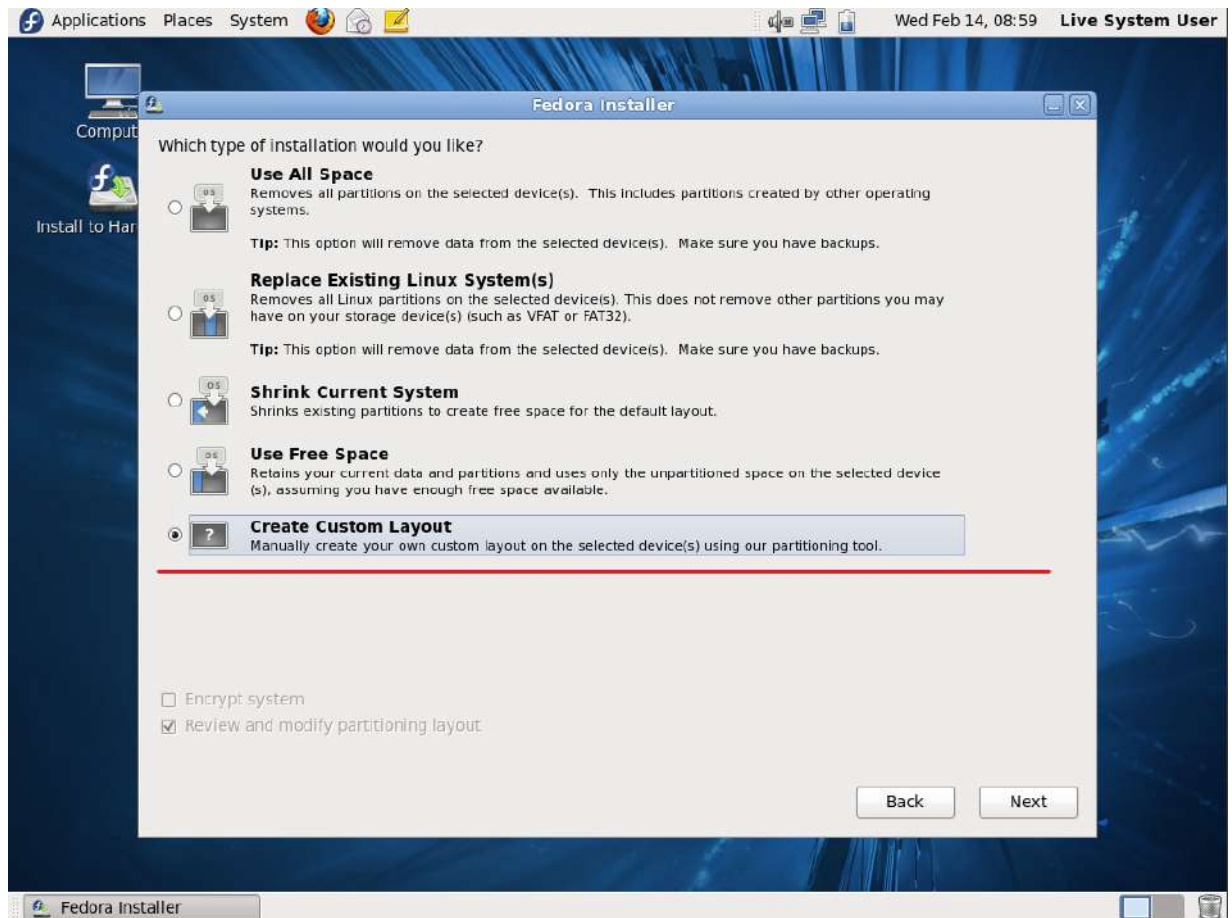
Указываем имя компьютера в сети:



Часовой пояс:



Осуществляем ручное определение разделов:




Вводим авторизационные данные:

Welcome
License
Information
Create User
Date and Time
Hardware Profile

Welcome

There are a few more steps to take before your system is ready to use. The Setup Agent will now guide you through some basic configuration. Please click the "Forward" button in the lower right corner to continue.



BackForward

Welcome
License
Information
Create User
Date and Time
Hardware Profile


Create User

You must create a 'username' for regular (non-administrative) use of your system. To create a system 'username', please provide the information requested below.

Username:

Full Name:

Password:



Confirm Password:

If you need to use network authentication, such as Kerberos or NIS, please click the Use Network Login button.

Use Network Login...

If you need more control when creating the user (specifying home directory, and/or UID), please click the Advanced button.

Advanced...

BackForward

Welcome
License
Information
Create User
➤ **Date and Time**
Hardware Profile

Date and Time

Please set the date and time for the system.

Date and Time

Current date and time: Wed 14 Feb 2024 12:16:37 PM MSK

☐ Synchronize date and time over the network

Manually set the date and time of your system:

Date

< February >							< 2024 >						
Sun	Mon	Tue	Wed	Thu	Fri	Sat							
28	29	30	31	1	2	3							
4	5	6	7	8	9	10							
11	12	13	14	15	16	17							
18	19	20	21	22	23	24							
25	26	27	28	29	1	2							
3	4	5	6	7	8	9							

Time

Hour : 12

Minute : 14

Second : 44

Back

Forward

Welcome
License
Information
Create User
Date and Time
➤ **Hardware Profile**

Hardware Profile

Smolt is a hardware profiler for The Fedora Project. Submitting your profile is a great way to give back to the community as this information is used to help focus our efforts on popular hardware and platforms. Submissions are anonymous. Sending your profile will enable a monthly check-in.

CPU Vendor: AuthenticAMD
CPU Model: AMD Ryzen 5 5500U with Radeon Graphics
CPU Stepping: 1
CPU Family: 23
CPU Model Num: 104
Number of CPUs: 6
CPU Speed: 2095
System Memory: 3529
System Swap: 1999
Vendor: innotek GmbH
System: VirtualBox 1.2
Form factor: laptop
Kernel: 2.6.35.6-45.fc14.i686
SELinux Enabled: 1
SELinux Policy: targeted
SELinux Enforce: Enforcing

Devices

=====
(None:None:None:None) platform, i8042, None, Platform Device (i8042)
(None:None:None:None) input, Unknown, None, Power Button
(32902:4663:0:0) pci, Unknown, OTHER, 440FX - 82441FX PMC [Natoma]
(33006:51966:0:0) pci, Unknown, OTHER, VirtualBox Guest Service
(None:None:None:None) pnp, i8042 aux, None, Microsoft PS/2-style Mouse
(32902:10281:0:0) pci, ahci, OTHER, 82801HBM/HEM (ICH8M/ICH8M-E) SATA AHCI Controller
(None:None:None:None) input, Unknown, MOUSE, ImExPS/2 Generic Explorer Mouse

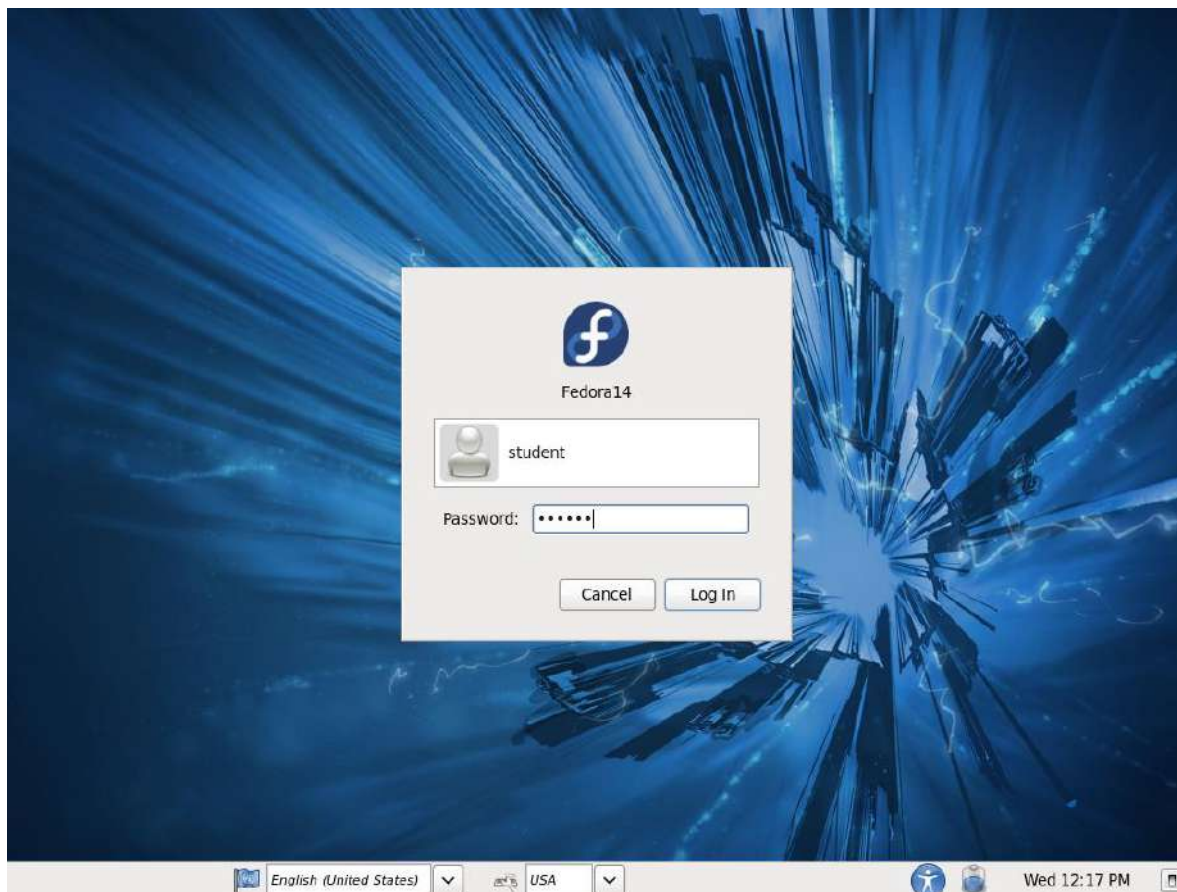
☐ Send Profile

☒ Do not send profile

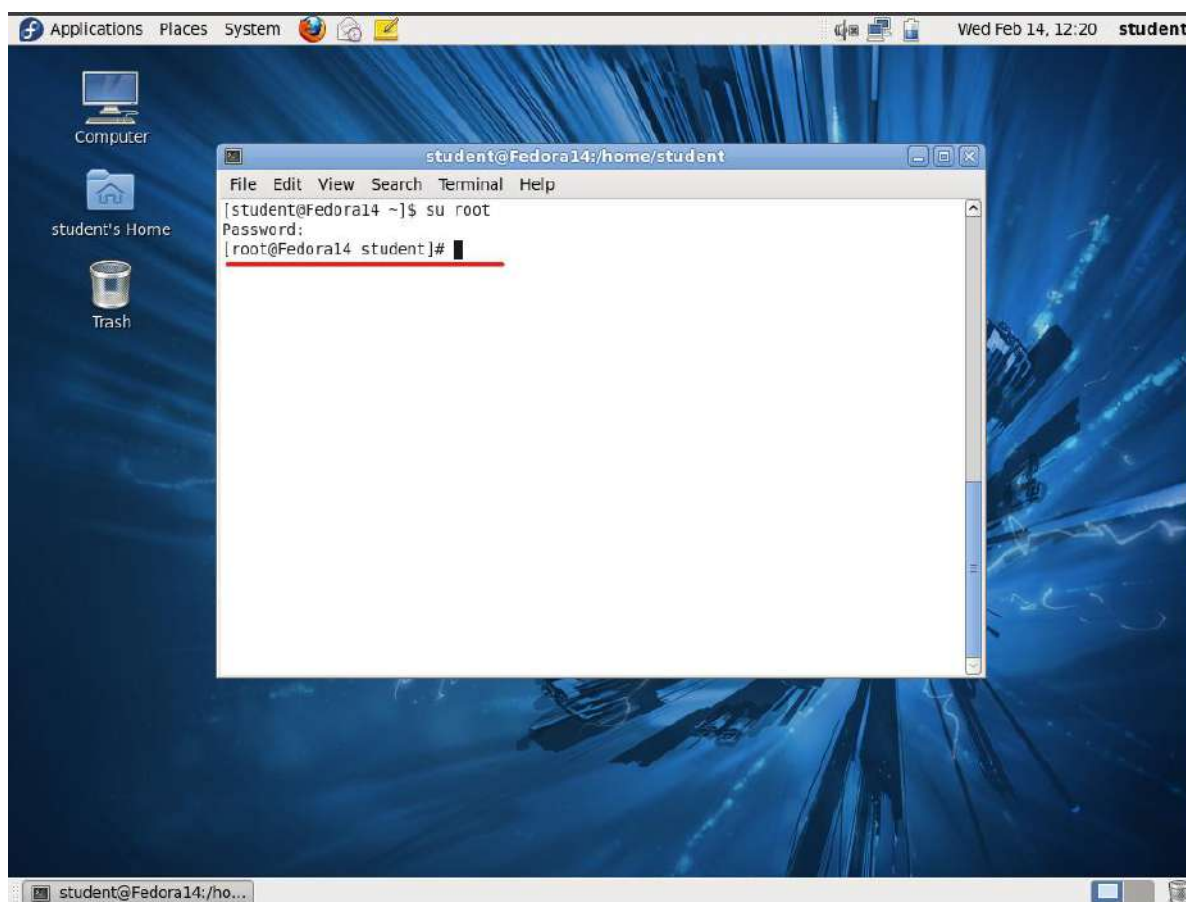
Back

Finish

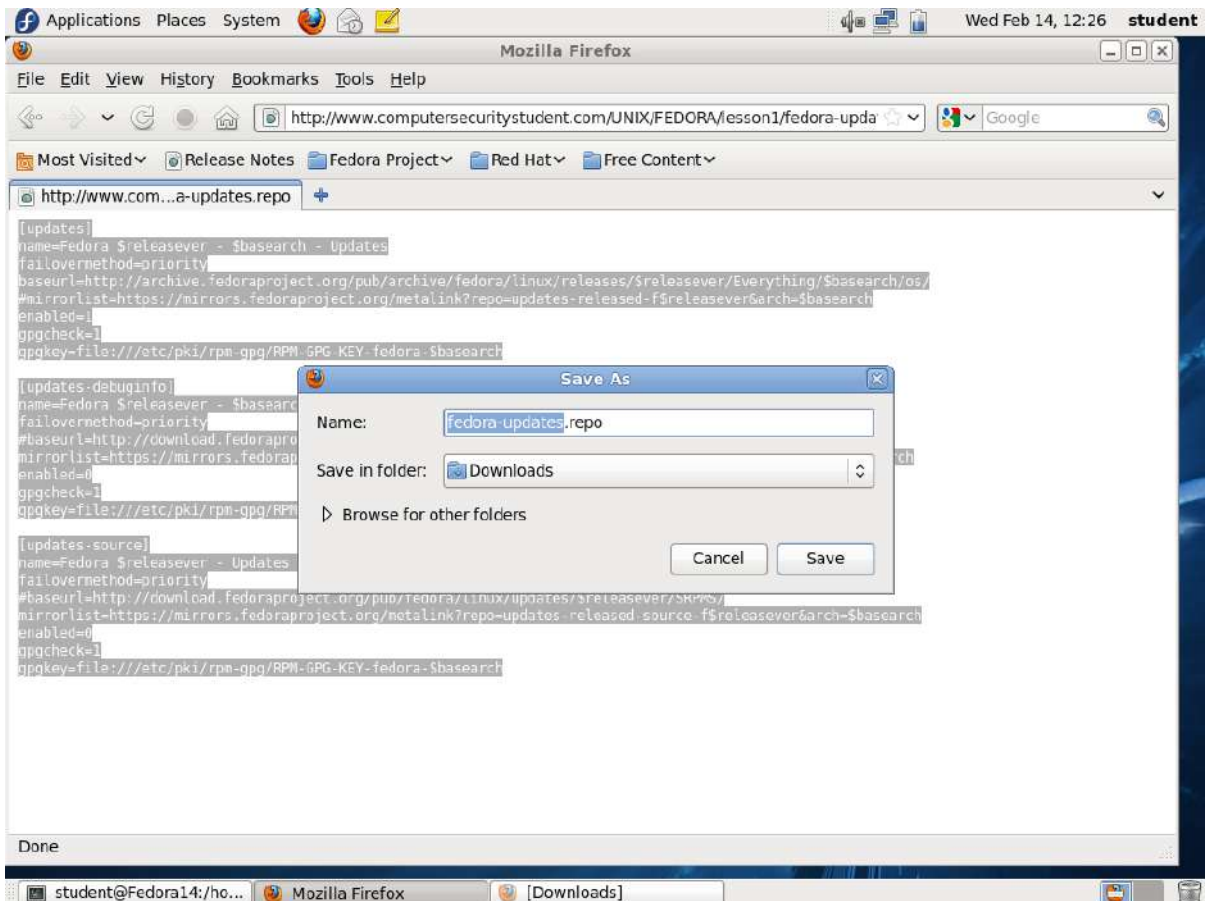
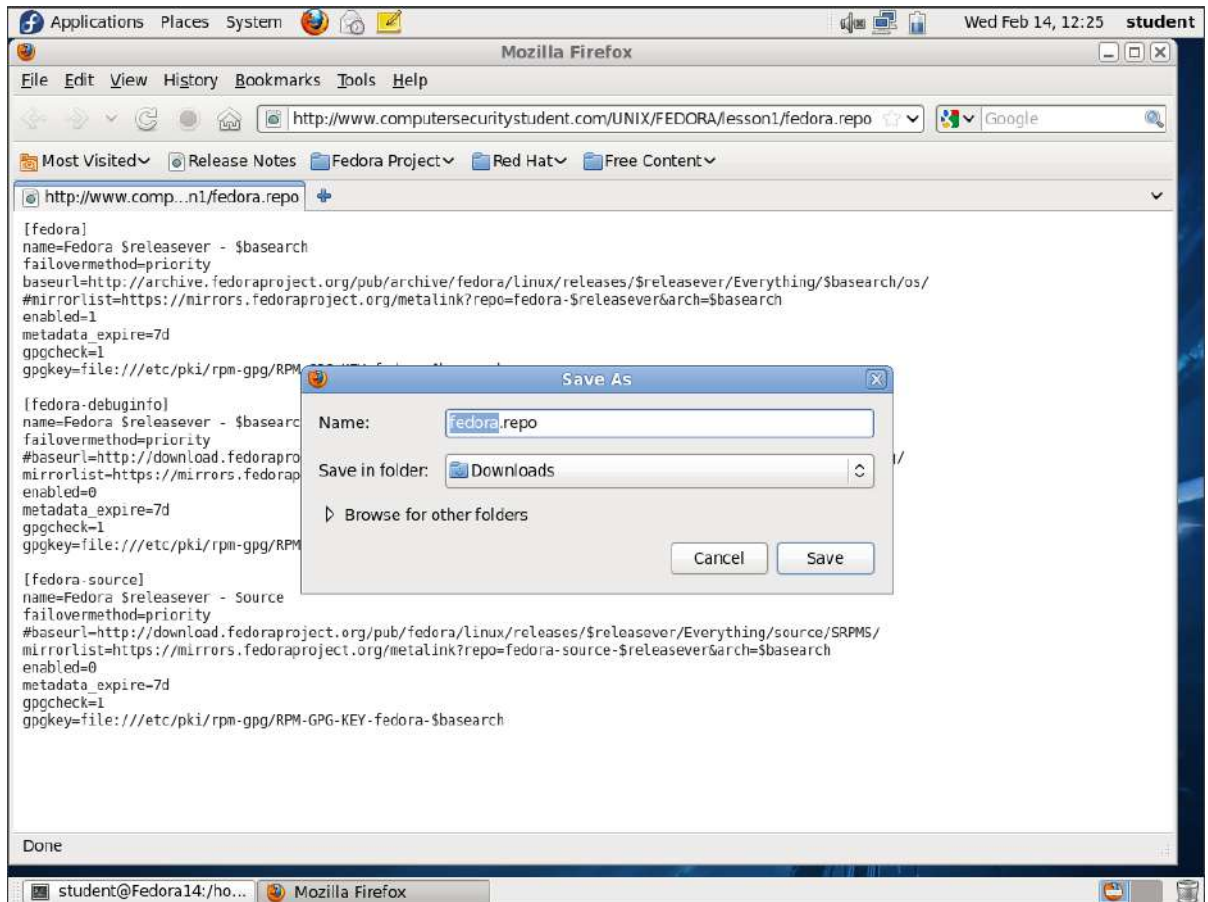
Входим в систему:



Переходим в режим суперпользователя:

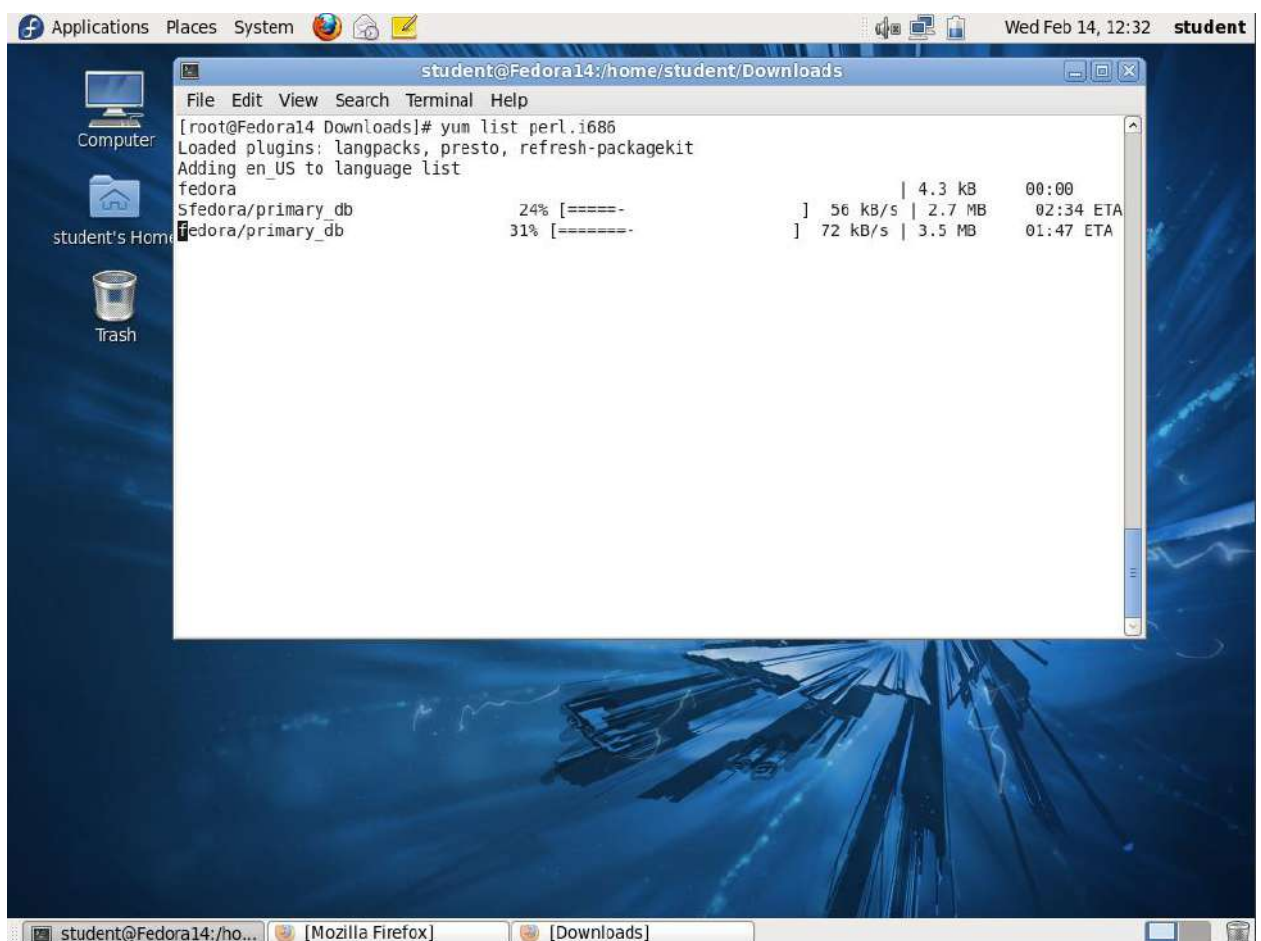


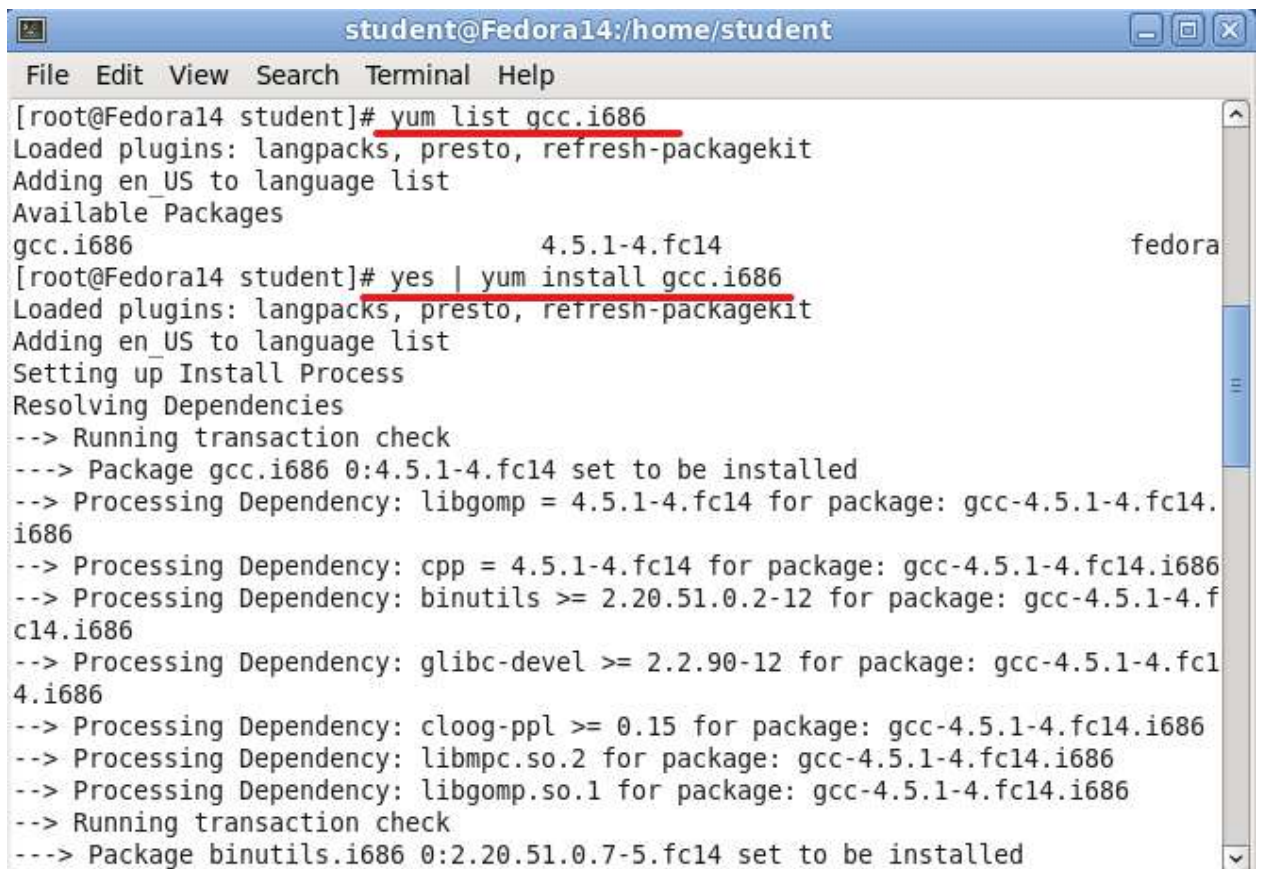
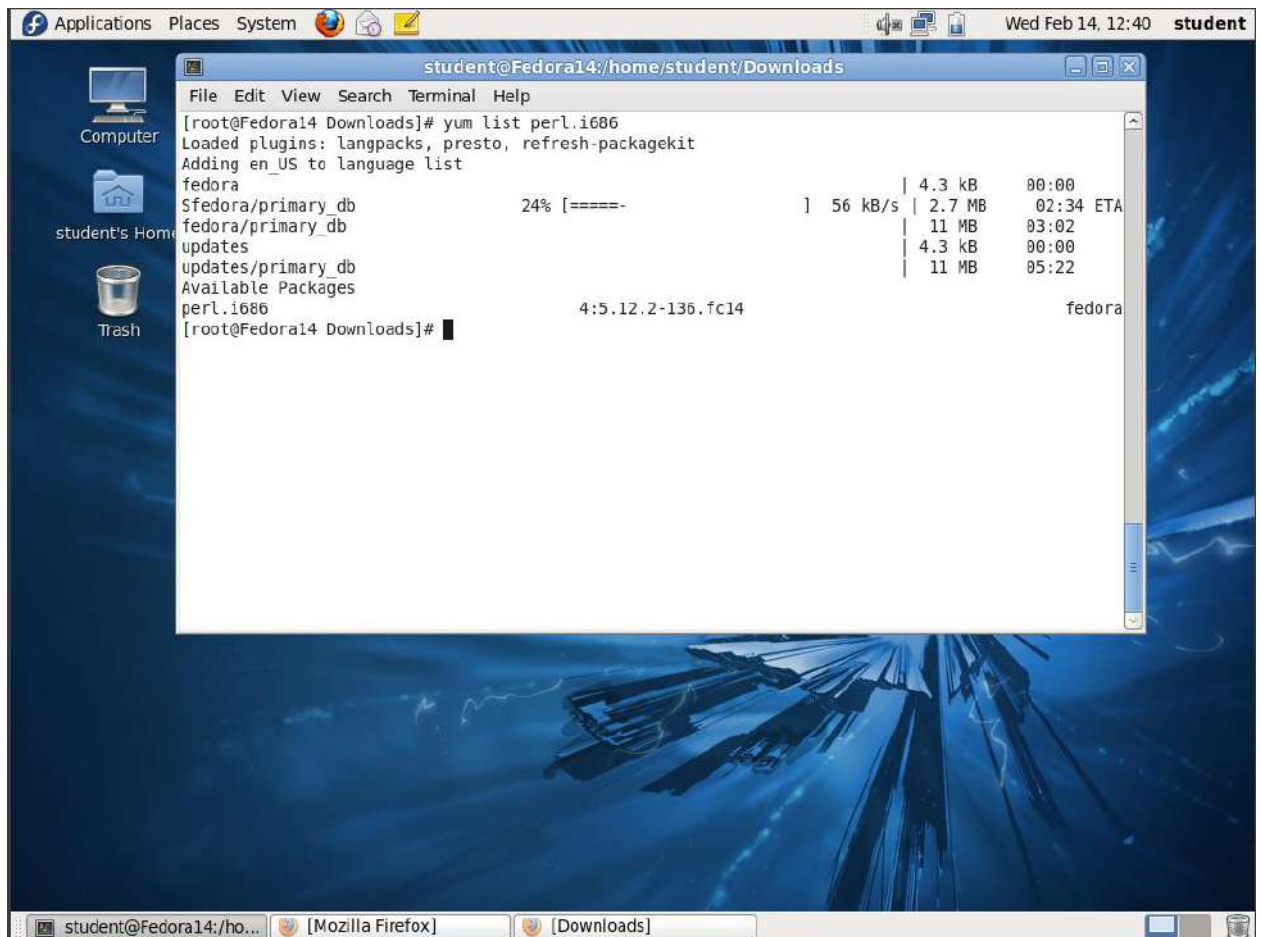
Устанавливаем необходимые конфигурационные файлы с сайтов:



Производим установку необходимых пакетов (gcc, wget, perl):

```
student@Fedora14:/home/student/Downloads
File Edit View Search Terminal Help
[root@Fedora14 student]# su root
[root@Fedora14 student]# ls -l /etc/yum.repos.d/*
-rw-r--r--. 1 root root 1144 Oct 15 2010 /etc/yum.repos.d/fedora.repo
-rw-r--r--. 1 root root 1105 Oct 15 2010 /etc/yum.repos.d/fedora-updates.repo
-rw-r--r--. 1 root root 1163 Oct 15 2010 /etc/yum.repos.d/fedora-updates-testin
g.repo
[root@Fedora14 student]# cd /home/student/Do
Documents/ Downloads/
[root@Fedora14 student]# cd /home/student/Downloads/
[root@Fedora14 Downloads]# ls -l *.repo
-rw-rw-r--. 1 student student 1151 Feb 14 12:25 fedora.repo
-rw-rw-r--. 1 student student 1127 Feb 14 12:26 fedora-updates.repo
[root@Fedora14 Downloads]# yes | cp -ruv *.repo /etc/yum.repos.d/*
cp: target `/etc/yum.repos.d/fedora-updates-testing.repo' is not a directory
[root@Fedora14 Downloads]# yes | cp -ruv *.repo /etc/yum.repos.d/
cp: overwrite `/etc/yum.repos.d/fedora.repo'? `fedora.repo' -> `/etc/yum.repos.d
/fedora.repo'
cp: overwrite `/etc/yum.repos.d/fedora-updates.repo'? `fedora-updates.repo' -> `
/etc/yum.repos.d/fedora-updates.repo'
[root@Fedora14 Downloads]# grep -i archive /etc/yum.repos.d/*
/etc/yum.repos.d/fedora.repo:baseurl=http://archive.fedoraproject.org/pub/archive/fedora/l
inux/releases/$releasever/Everything/$basearch/os/
/etc/yum.repos.d/fedora-updates.repo:baseurl=http://archive.fedoraproject.org/pub/archive/
fedora/linux/releases/$releasever/Everything/$basearch/os/
[root@Fedora14 Downloads]#
```






```
student@Fedora14:/home/student
File Edit View Search Terminal Help

Running Transaction
  Installing      : libmpc-0.8.1-1.fc13.i686                1/10
  Installing      : cpp-4.5.1-4.fc14.i686                  2/10
  Installing      : libgomp-4.5.1-4.fc14.i686               3/10
  Installing      : ppl-0.10.2-10.fc12.i686                 4/10
  Installing      : cloog-ppl-0.15.7-2.fc14.i686             5/10
  Installing      : binutils-2.20.51.0.7-5.fc14.i686         6/10
  Installing      : kernel-headers-2.6.35.6-45.fc14.i686    7/10
  Installing      : glibc-headers-2.12.90-17.i686           8/10
  Installing      : glibc-devel-2.12.90-17.i686             9/10
  Installing      : gcc-4.5.1-4.fc14.i686                   10/10

Installed:
gcc.i686 0:4.5.1-4.fc14

Dependency Installed:
binutils.i686 0:2.20.51.0.7-5.fc14    cloog-ppl.i686 0:0.15.7-2.fc14
cpp.i686 0:4.5.1-4.fc14                glibc-devel.i686 0:2.12.90-17
glibc-headers.i686 0:2.12.90-17        kernel-headers.i686 0:2.6.35.6-45.fc14
libgomp.i686 0:4.5.1-4.fc14            libmpc.i686 0:0.8.1-1.fc13
ppl.i686 0:0.10.2-10.fc12

Complete!
[root@Fedora14 student]#
```

```
student@Fedora14:/home/student
File Edit View Search Terminal Help

[root@Fedora14 student]# yum list wget
Loaded plugins: langpacks, presto, refresh-packagekit
Adding en_US to language list
Available Packages
wget.i686                                1.12-2.fc13                                fedora
[root@Fedora14 student]# yes | yum install wget
Loaded plugins: langpacks, presto, refresh-packagekit
Adding en_US to language list
Setting up Install Process
Resolving Dependencies
--> Running transaction check
---> Package wget.i686 0:1.12-2.fc13 set to be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
wget i686 1.12-2.fc13 fedora 480 k
=====

Transaction Summary
=====
```

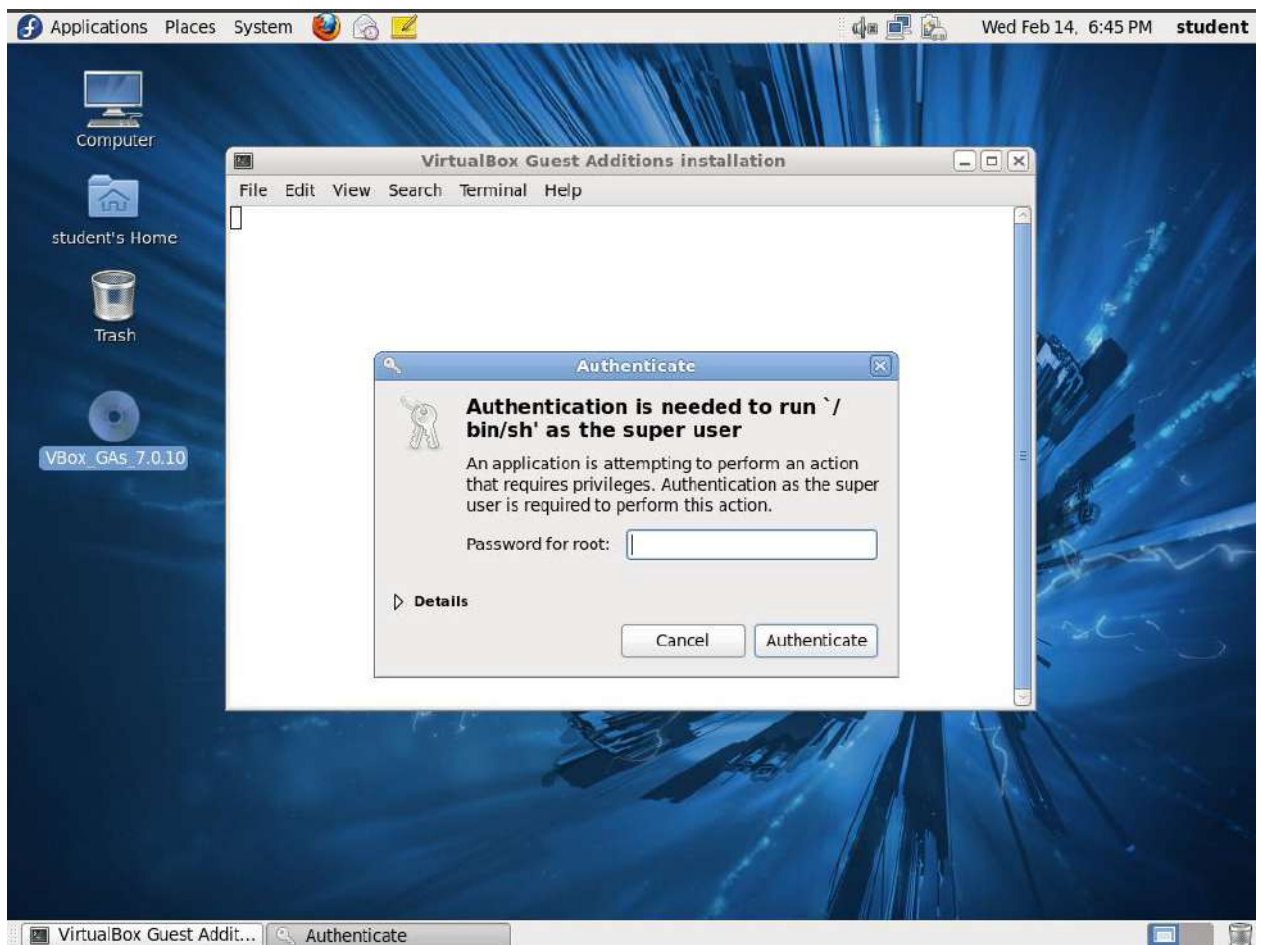
```
student@Fedora14:/home/student
File Edit View Search Terminal Help
wget          i686          1.12-2.fc13          fedora          480 k
Transaction Summary
=====
Install          1 Package(s)

Total download size: 480 k
Installed size: 1.8 M
Is this ok [y/N]: Downloading Packages:
Setting up and reading Presto delta metadata
Processing delta metadata
Package(s) data still to download: 480 k
wget-1.12-2.fc13.i686.rpm          | 480 kB          00:04
Running rpm_check_debug
Running Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing      : wget-1.12-2.fc13.i686          1/1

Installed:
  wget.i686 0:1.12-2.fc13

Complete!
[root@Fedora14 student]#
```

Установка гостевых дополнений VirtualBox



Отчет о работе:

