**КИЇВСЬКИЙ ФАХОВИЙ КОЛЕДЖ ЗВ’ЯЗКУ**

**WORK-CASE №2**

з дисципліни «Операційні системи»

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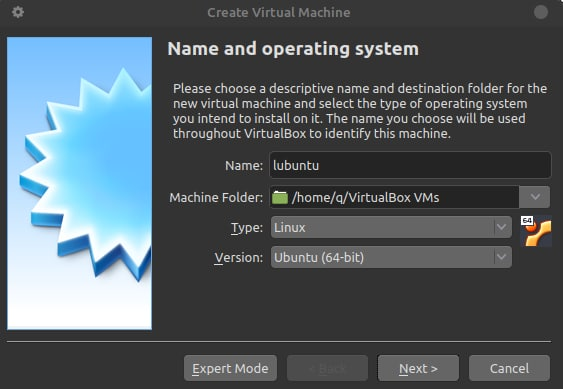
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**Installing a virtual machine**

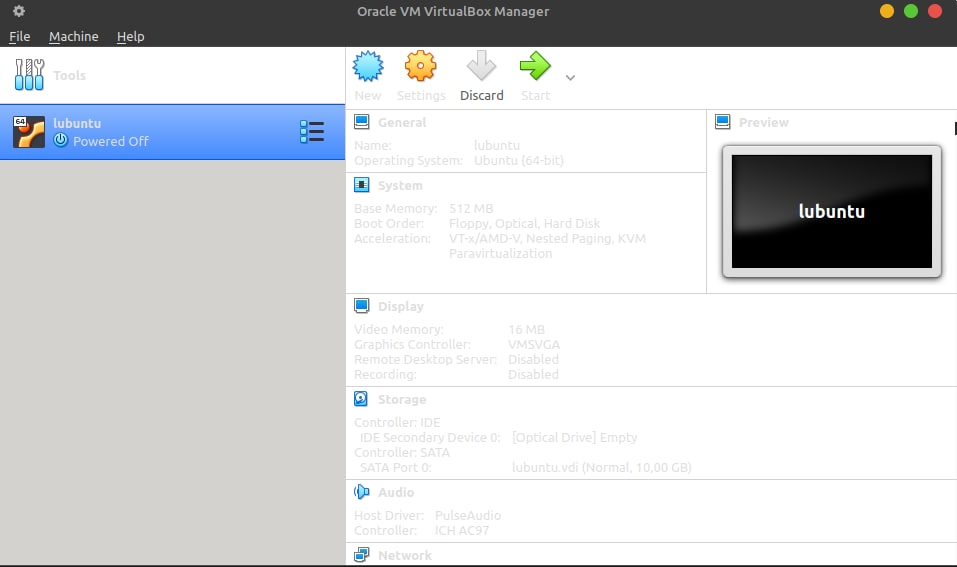
To install the linux system, you need to download the system from the developers' website in .iso format. You can learn about choosing an environment on thematic sites and choose another xfce/kde for yourself.

Pic 1. Selection of the version and the path to the files.

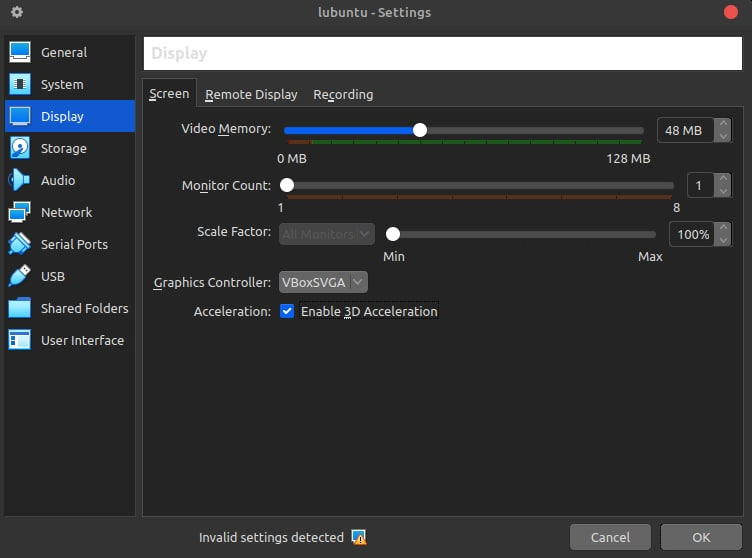
A 2006 model PC is enough for a comfortable life.

But Linux, like its components, also evolves and becomes more difficult. The same Ubuntu will now not work normally on a device with less than 4 GB of RAM. That is why we need lightweight distributions that are still trying to please users with outdated hardware.

**Setting up a virtual machine in a virtualbox**

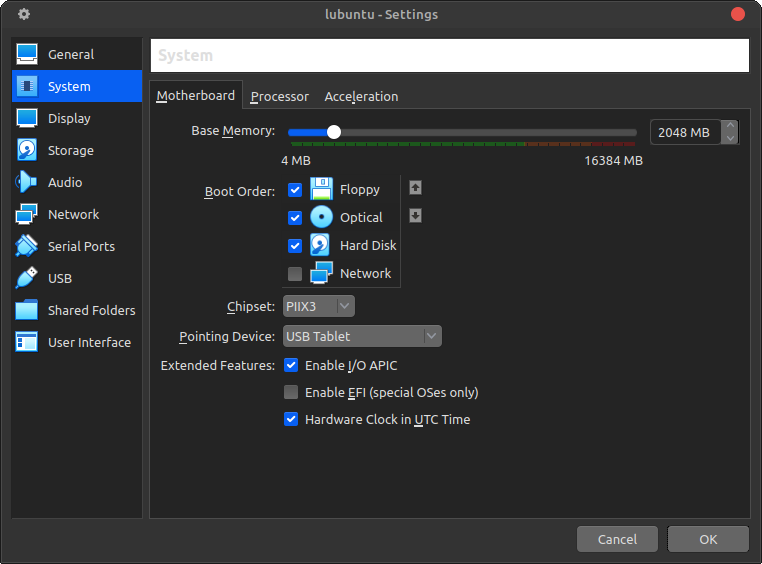
In order to comfortably use the operating system, let's fiddle with the settings a little. Let's choose video memory (the best option is from 48). Let's turn on VBoxSVGA and turn on 3D acceleration, as in the figure. 

Pic. 2. Selection of the machine.



Pic. 3. Machine settings

**Adding equipment**

A virtual machine includes adding new virtual disks, increasing the amount of RAM, or providing access to physical devices such as printers or USB devices.

Pic. 4. Adding equipment

The procedure for selecting and adding hardware to a virtual machine:

* Select a virtual machine
* Open the VM settings

Adding equipment:

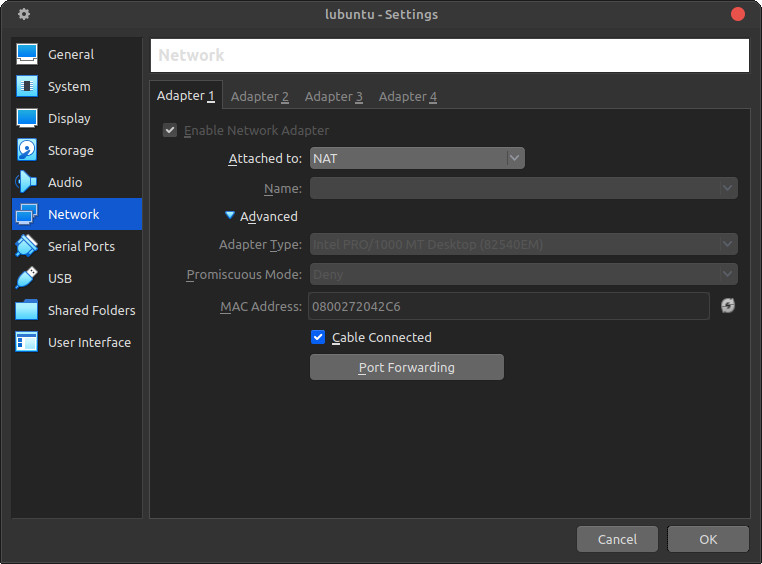
* Processor (CPU)
* RAM
* Disk space
* Network adapters

Save the settings

**Network connection**

To configure the network and connect to Wi-Fi hotspots in VirtualBox, you need to perform the following steps:

1. Stop the virtual machine
2. Open the VM settings
3. Go to the "Network" section
4. Select "Attached to"
5. Select your Wi-Fi card
6. Save the settings
7. Start the virtual machine



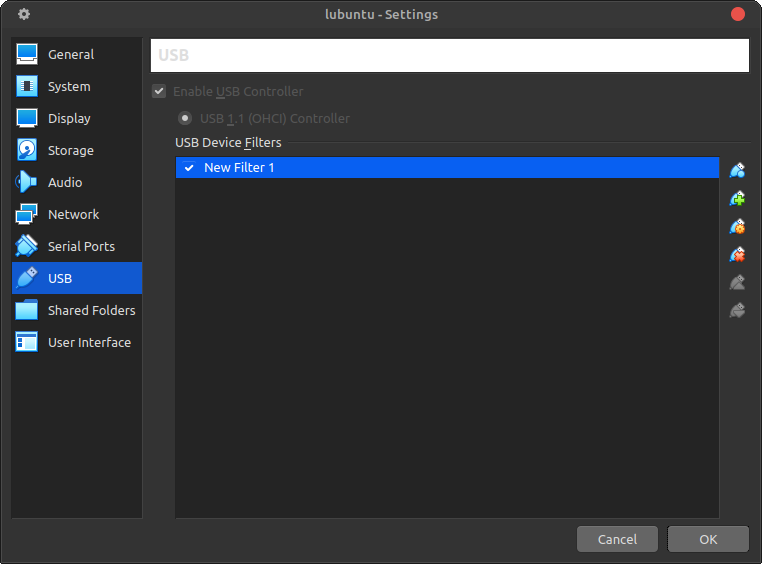
Pic. 5 Connecting to the network

**Ability to work with external media**

VirtualBox has the ability to work with external media, such as USB flash drives, external hard drives, CD/DVD drives, and others.

Here are the steps to work with external media in VirtualBox:

1. Download and install the VirtualBox Extension Pack
2. Start the virtual machine
3. Go to VM settings
4. Go to the "USB" section
5. Add USB filters
6. Connect the external device
7. Start the virtual machine
8. Use an external device

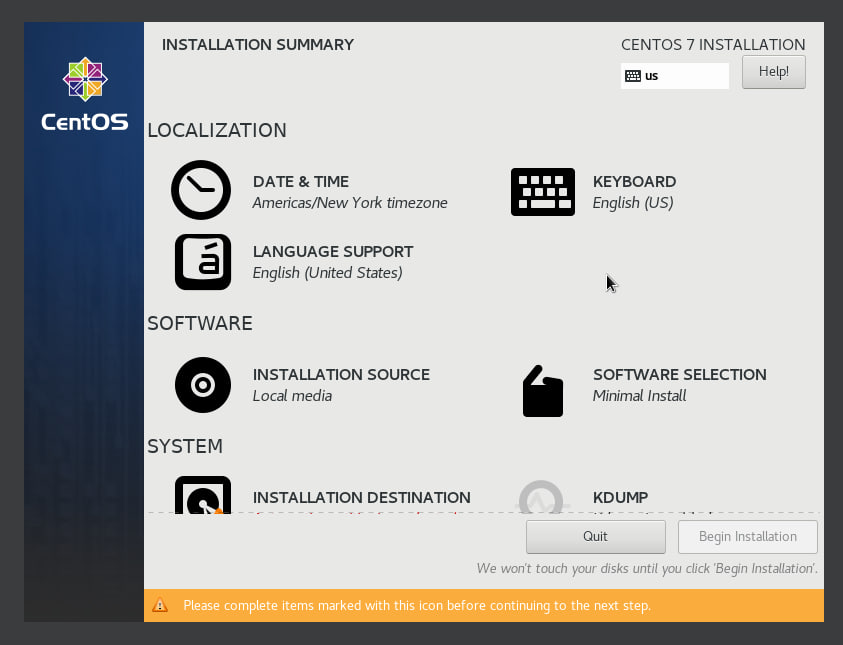
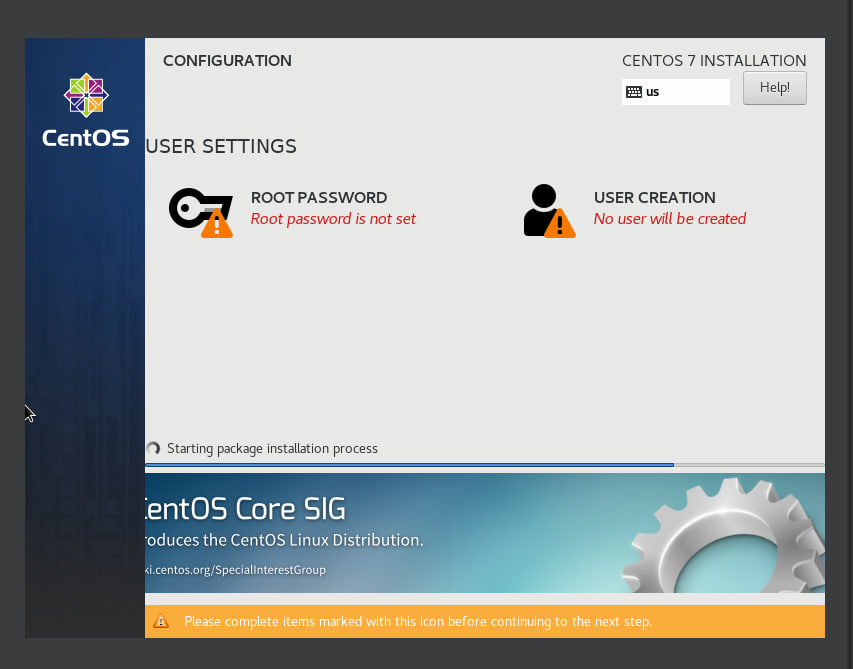


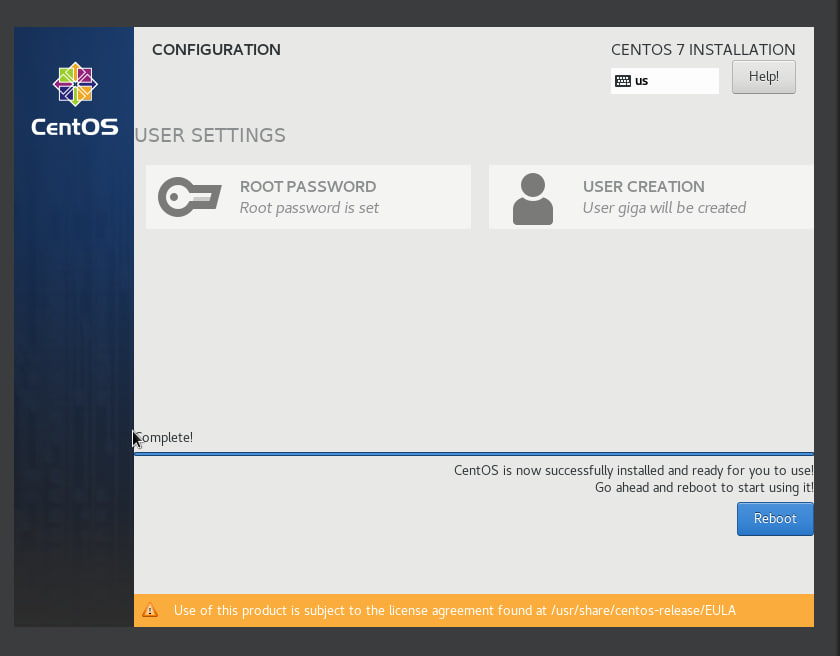
Pic. 6. Adding external media

**Installing SentOS**



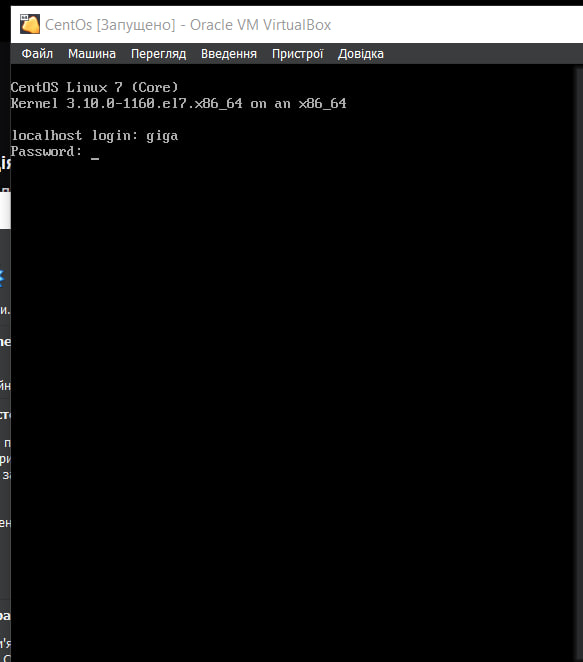
Pic. 7. Installing SentOS

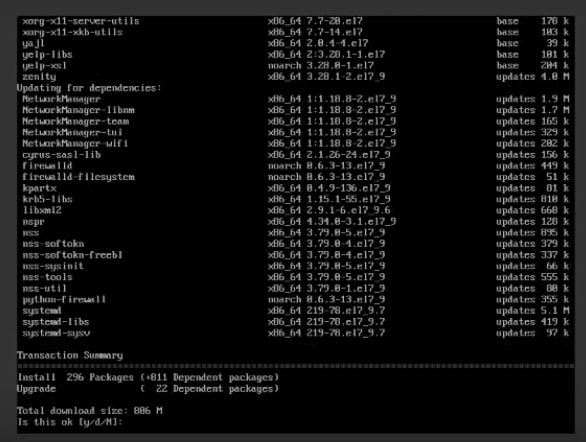


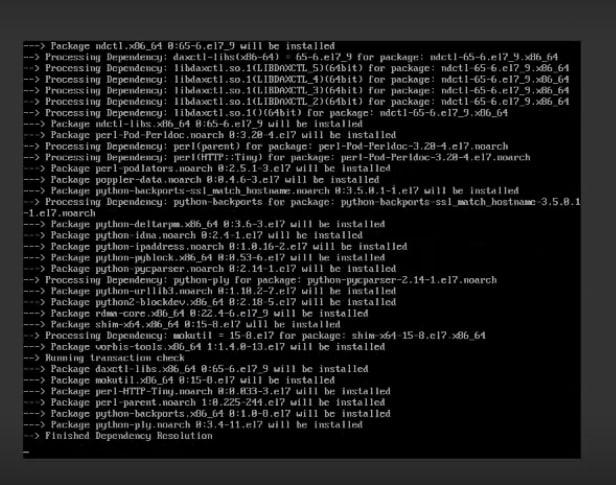
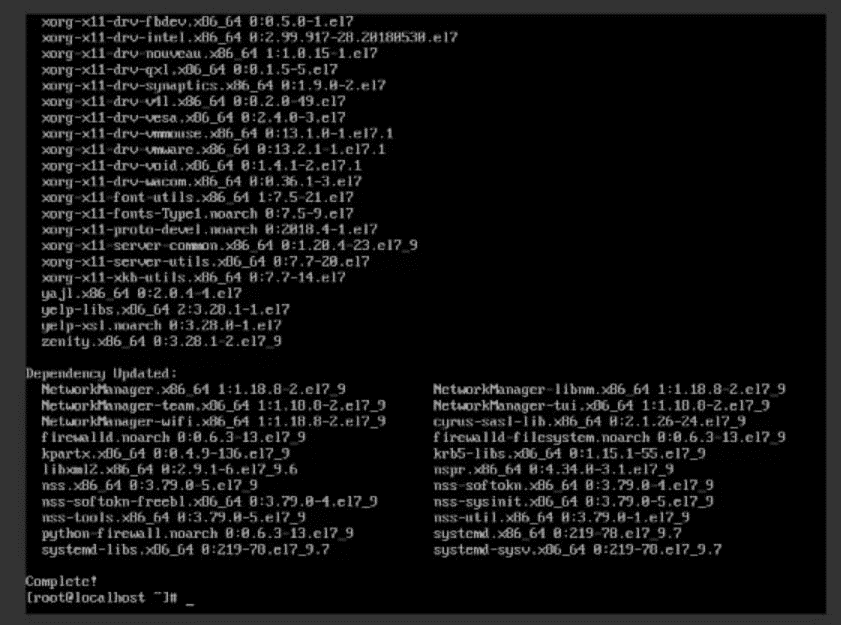
Pic. 8-10. Additional SentOS settings

**Installing GNOME**

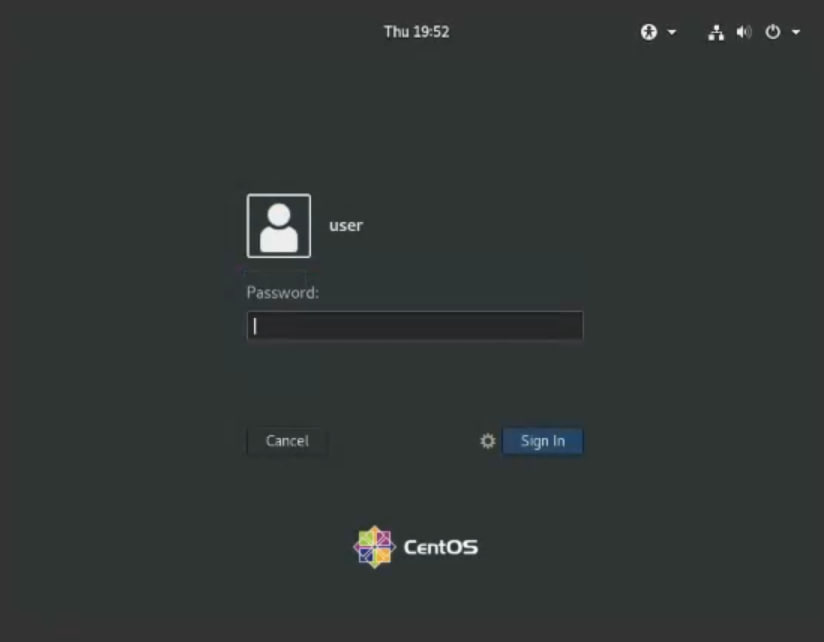


Pic. 11. A view of the minimum SentOS configuration

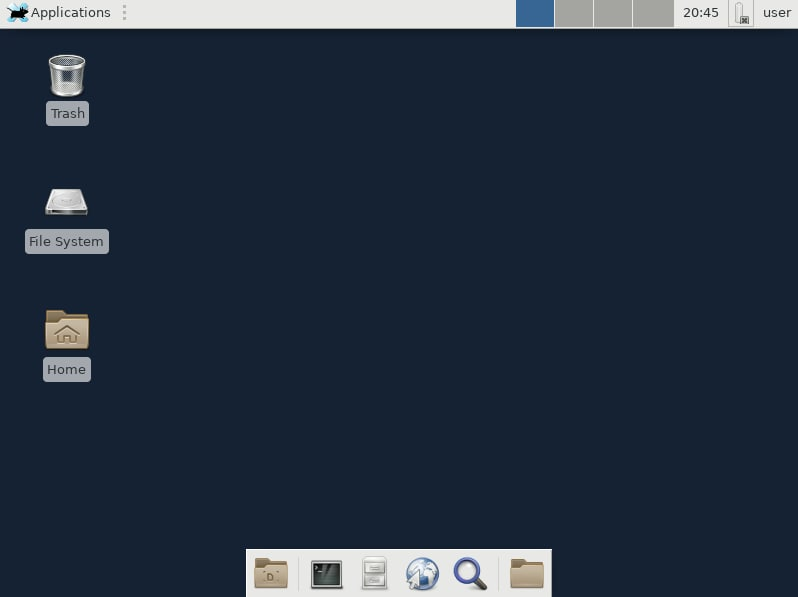
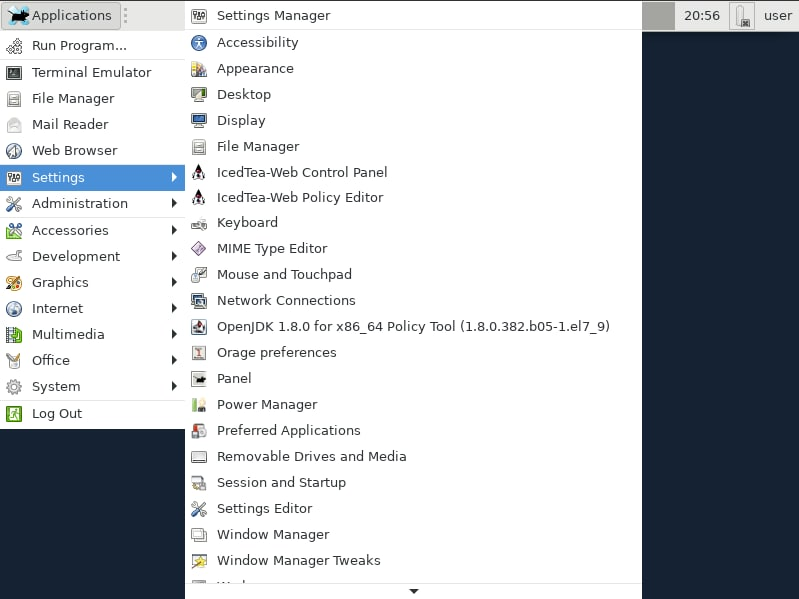


Pic. 12-14. Installing GNOME



Pic. 15. The appearance of GNOME

Pic. 16-17. The appearance of xfce

**Conclusions**

In this work, we learned how to install Ubuntu Linux and SentOs on a hypervisor. We also learned how to change the appearance of SentOs using different graphical interfaces. We also connected the hypervisor to the Internet and connected flash memory to it.