“Київський фаховий коледж зв’язку”

Циклова комісія Комп’ютерної інженерії

**ЗВІТ ПО ВИКОНАННЮ**

**WORK-CASE №2**

з дисципліни: «Операційні системи»

Виконавли студенти

групи РПЗ-03

Команда: Губенко Є.О.,

Заїка С.В. та Кресан Р.А.

Перевірив викладач

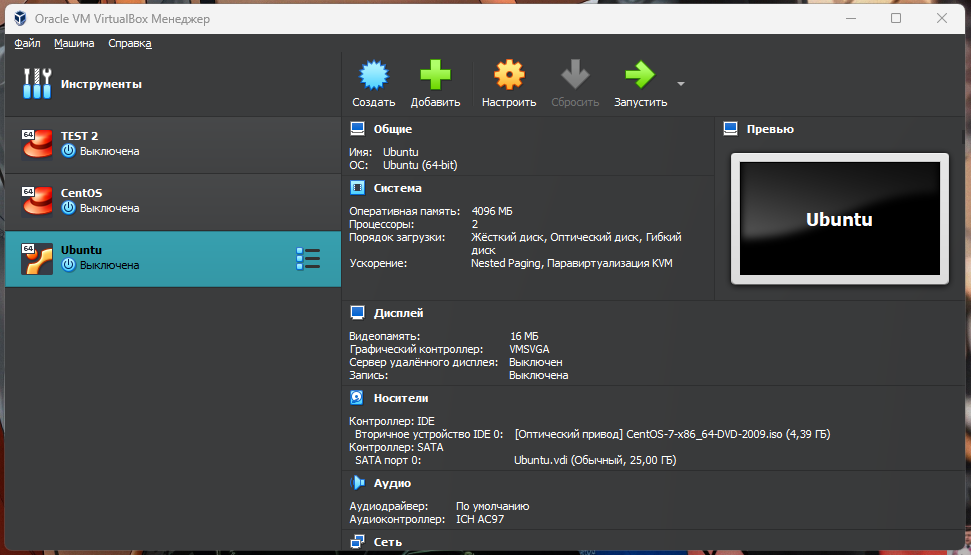
Сушанова В.С.

Київ 2022

**Хід роботи**

***Готував матеріал студент: Кресан Р.А.***

1. **Install a type II hypervisor on your home workstation - Virtual Box, VMWare Workstation, Hyper-V (or another of your choice). We installed the Virtual Box hypervisor and created virtual machines with CentOS and Ubuntu operating systems*.***

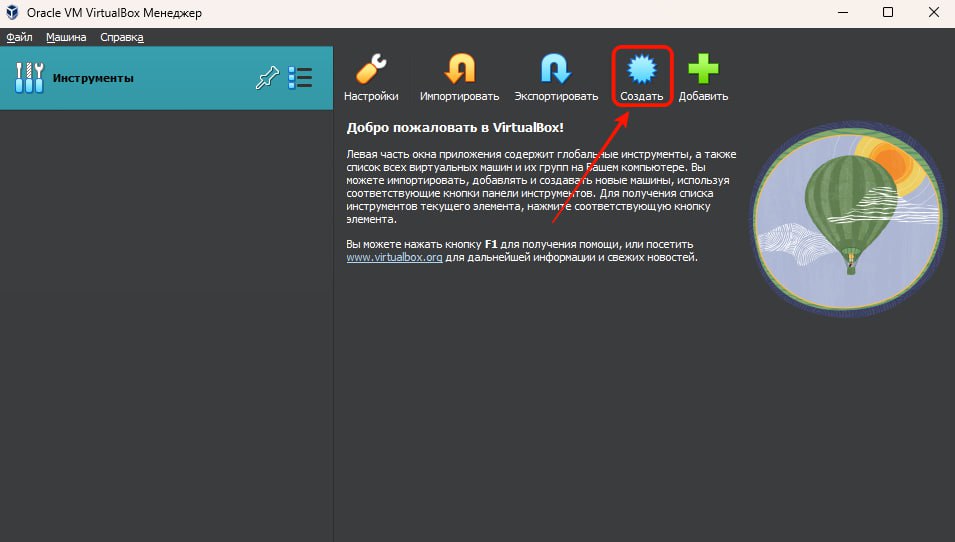


***Готував матеріал студент Заїка С. В.***

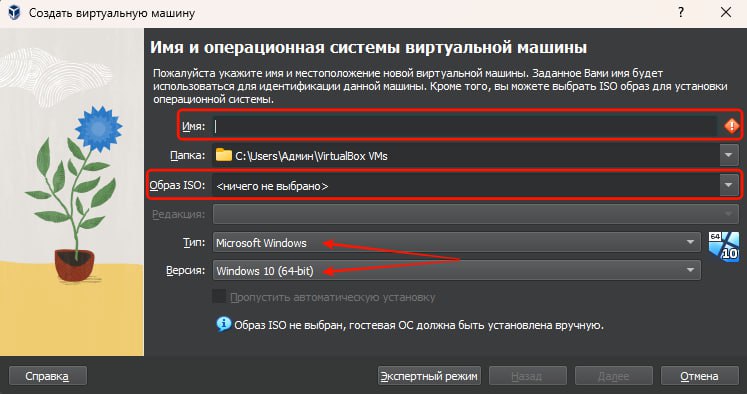
**2. Describe a set of basic actions in the hypervisor you have installed:**

* **Create a new virtual machine;**

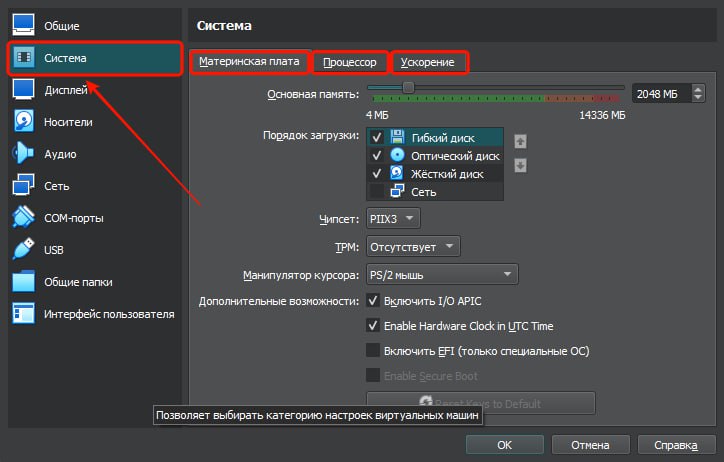
*To create a new virtual machine, click the Create button on the Tools tab.*

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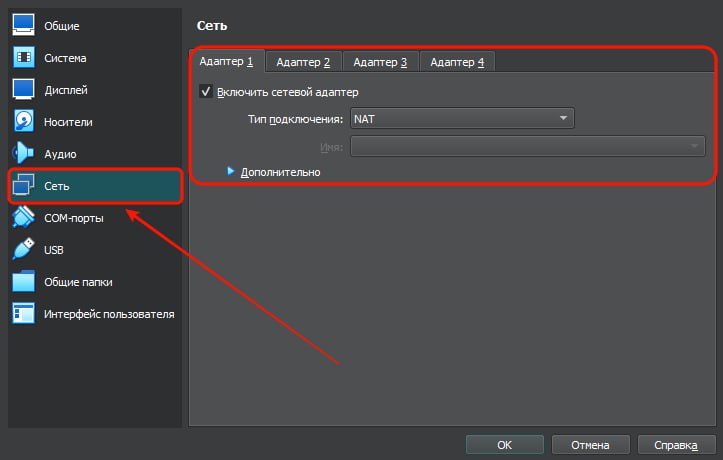
*After that, a dialog box will open where you need to enter the name of the virtual machine and select ISO accounting. If ISO accounting is not automatically installed, you need to select the type and version of the operating system.*

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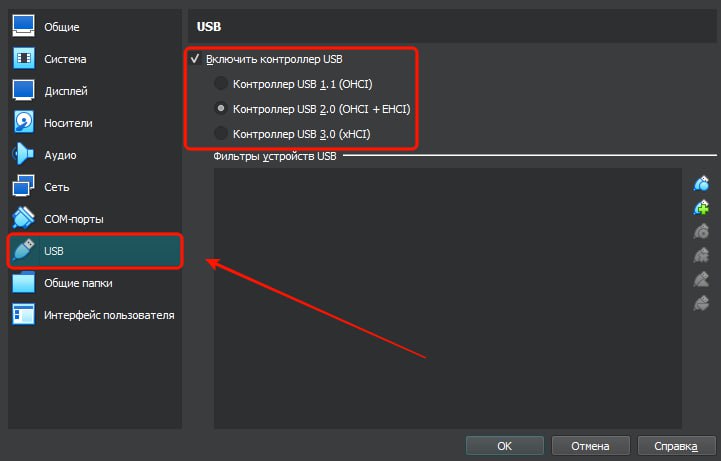
* **Select/add hardware available for the virtual machine;**

*After creating the virtual machine, we can proceed to its settings. In the "System" tab, we can define how much memory our system will occupy, how many cores our system will have, and what the CPU load limit will be.*

* **Set up a network and connect to Wi-Fi points;**

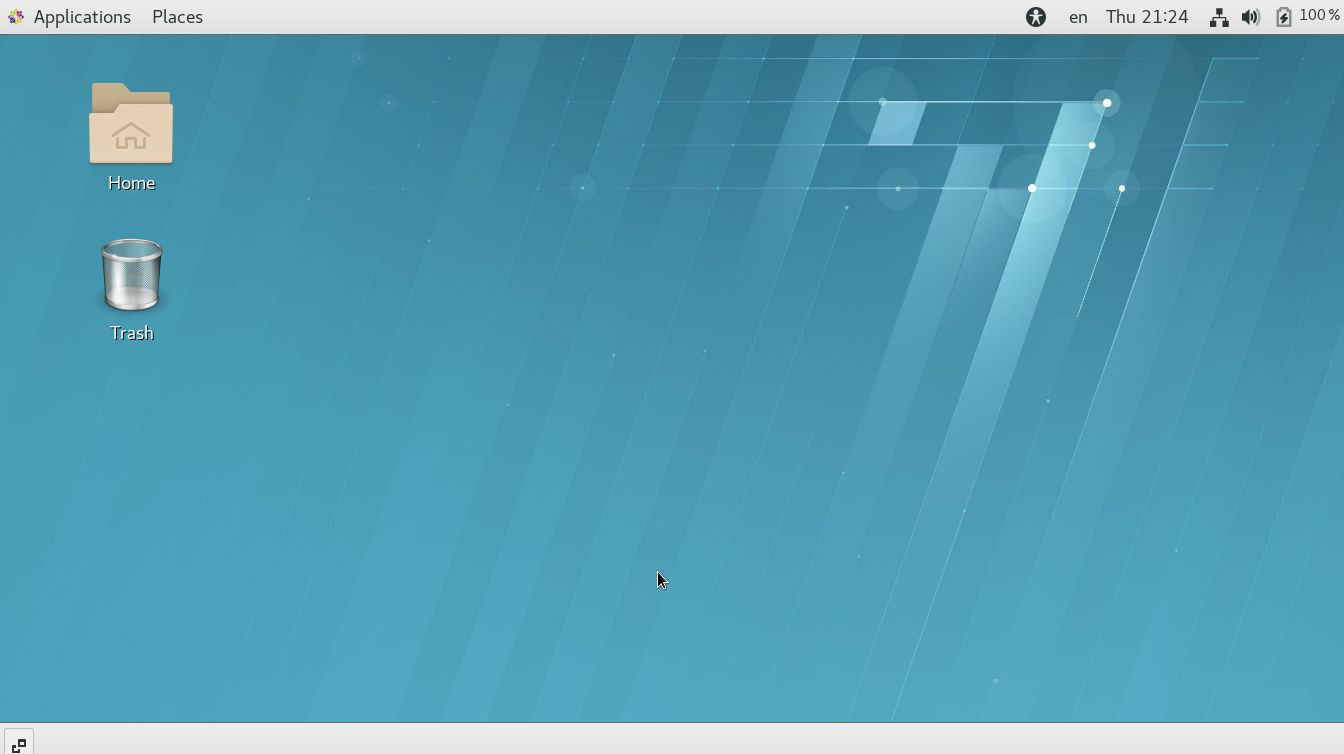
*In the "Network" tab, we can define how many adapters will work and the type of connection.*

* **Ability to work with external media (flash memory).**

*In the "USB" tab, we can enable and disable the "USB controller".*

**Готував матеріал студент: Губенко Є.О.**

**3.** **Install the GNU/Linux CentOS operating system (or another distribution convenient for you) in your hypervisor in a basic configuration with a graphical shell.**

*In order to install the operating system, you need to download and install Virtual Box, and download the ISO of the operating system from the official CentOS website. In Virtual Box, you need to create a new virtual machine and upload the ISO image. After that, you need to choose the installation procedure (automatic or manual). When we are done with the installation procedure, we need to go through a simple list of settings and click the "Finish" button. Now we can use the CentOS operating system in the virtual machine.* *Desktop CentOS*

***Готував матеріал студент: Кресан Р.А.***

**4. Create a second virtual machine and do the following for it:**

* **Install the GNU/Linux CentOS operating system in a minimal configuration with terminal I/O without a graphical interface;**

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| *I installed the second CentOS virtual machine in a minimal configuration with terminal I/O and no GUI* |

* **install the GNOME graphical shell on top of the OS installed in the previous paragraph;**

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| *To install the graphical shell, I used the console command:*  *sudo yum -y groups install "GNOME Desktop"*  *After the installation process, an OS configuration window appeared, after which we get to the desktop and can use the operating system* | |

* **install an additional graphical shell (a possible list of them can be found in Lab1) and compare its capabilities with GNOME.**

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| *Ubuntu 22.10 was chosen as another graphical interface. Compared to CentOS, Ubuntu looks better and runs smoother. It's much easier to find the elements you need. Also, there were no problems during the installation of the virtual machine, compared to CentOS. Apparently, this is because during the installation of Ubuntu, automatic installation was selected, and the installation of CentOS was selected as manual installation. Ubuntu has a very convenient search, compared to CentOS, where I have not found a search. There is also a larger selection of system customization.* | |