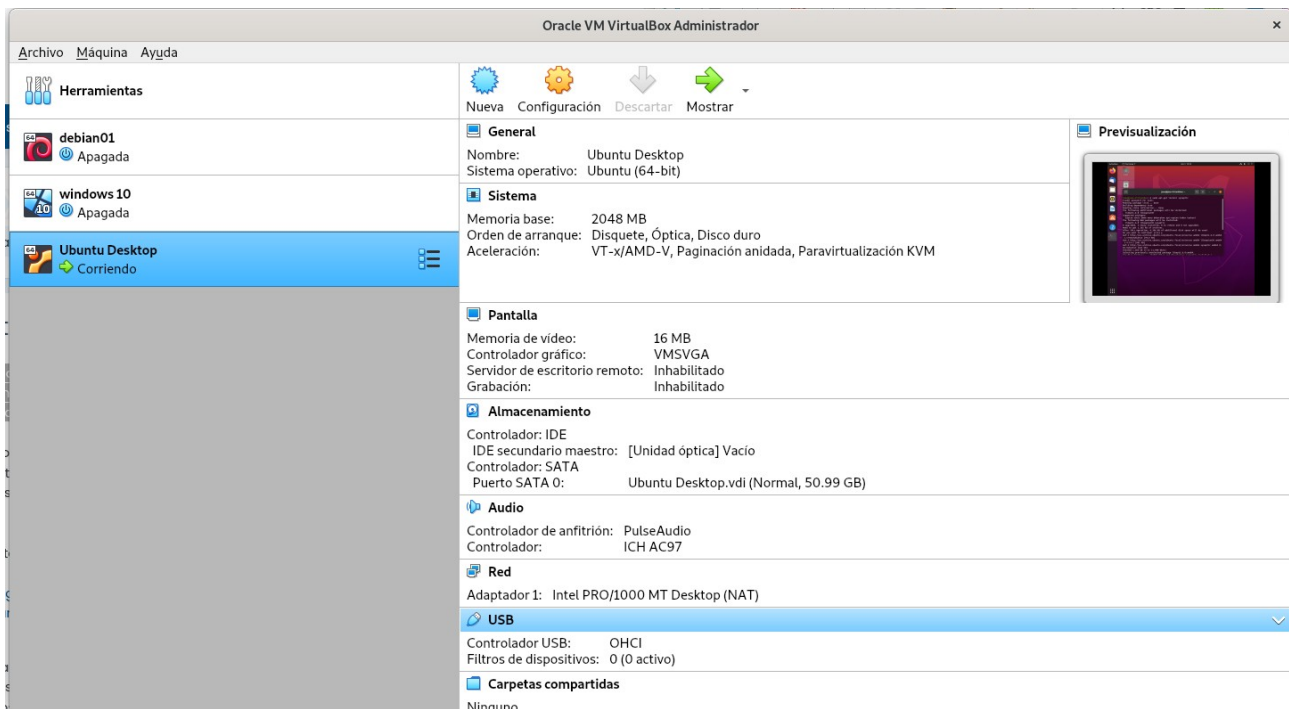


**1. En esta actividad se deberán realizar las tareas de instalación, actualización y desinstalación de un paquete en Ubuntu, por lo que previamente se habrá tenido que crear una VM en VirtualBox e instalado el SO Ubuntu Desktop LTS.**



**2. Tras este paso previo, descarga e instala Synaptic Package Manager. Analiza y comenta las diferencias entre el centro de Software de Ubuntu y Synaptic y describe brevemente la estructura de Synaptic. Para ello, repasa primero la teoría relacionada.**

```
Juan@Juan-VirtualBox: ~  
$ sudo apt-get install synaptic  
[sudo] password for juan:  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following additional packages will be installed:  
  libbept1.6.0 libxaplan30  
Suggested packages:  
  xaplan-tools dwww menu deborphan apt-xaplan-index tasksel  
The following NEW packages will be installed:  
  libbept1.6.0 libxaplan30 synaptic  
0 upgraded, 3 newly installed, 0 to remove and 0 not upgraded.  
Need to get 1.362 kB of archives.  
After this operation, 6.346 kB of additional disk space will be used.  
Do you want to continue? [Y/n] y  
Get:1 http://es.archive.ubuntu.com/ubuntu focal/universe amd64 libbept1.6.0 amd64  
  1.1+nm3ubuntu3 [79,6 kB]  
Get:2 http://es.archive.ubuntu.com/ubuntu focal/universe amd64 libxaplan30 amd64  
  1.4.14-2 [661 kB]  
Get:3 http://es.archive.ubuntu.com/ubuntu focal/universe amd64 synaptic amd64 0.  
  84.6ubuntu5 [622 kB]  
Fetched 1.362 kB in 1s (1.990 kB/s)  
Selecting previously unselected package libbept1.6.0:amd64.  
Unpacking libbept1.6.0:amd64 (1.1+nm3ubuntu3) ...  
Unpacking libxaplan30:amd64 (1.4.14-2) ...  
Unpacking synaptic (0.84.6ubuntu5) ...  
Setting up libbept1.6.0:amd64 (1.1+nm3ubuntu3) ...  
Setting up libxaplan30:amd64 (1.4.14-2) ...  
Setting up synaptic (0.84.6ubuntu5) ...  
Processing triggers for libc-bin (2.31-0ubuntu9) ...
```

Synaptic es un gestor de software con interfaz que nos permite instalar programas sin tener que escribir en la terminal.

La diferencia entre synaptic y el centro de software de ubuntu es que el centro de software es más fácil de usar pero, por otro lado, synaptic tiene mas opciones como por ejemplo más detalles sobre los paquetes.

**3. Por último, realiza un breve tutorial en inglés sobre la instalación, actualización y desinstalación de un paquete. Usa frases cortas y las capturas que entiendas necesarias para que un usuario principiante pudiese seguir los pasos necesarios para realizar las mismas acciones que previamente has tenido que realizar tú.**

we are going to install, update and uninstall visual studio code in ubuntu desktop.

first we must look for the installation command of the program that in this case is on the official page.

Install the HTTPS support for apt to get packages from Microsoft and other repositories.

```
sudo apt install -y curl apt-transport-https
```

Update the repository index using the apt command.

```
sudo apt update
```

and after insert the installation command

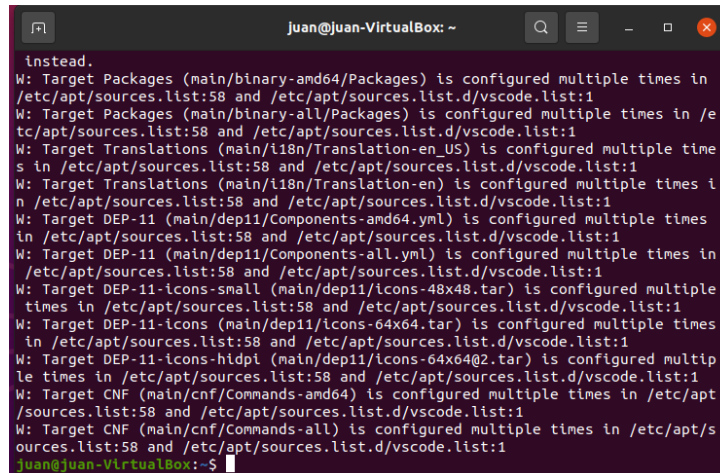
```
sudo apt install -y code
```

```
juan@juan-VirtualBox: ~  
juan@juan-VirtualBox:~$ sudo apt install -y curl apt-transport-https  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following NEW packages will be installed:  
  apt-transport-https curl  
0 upgraded, 2 newly installed, 0 to remove and 14 not upgraded.  
Need to get 166 kB of archives.  
After this operation, 573 kB of additional disk space will be used.  
Get:1 http://es.archive.ubuntu.com/ubuntu focal-updates/universe amd64 apt-transport-https all 2.0.6 [4.680 B]  
Get:2 http://es.archive.ubuntu.com/ubuntu focal-updates/main amd64 curl amd64 7.68.0-1ubuntu2.7 [161 kB]  
Fetched 166 kB in 0s (334 kB/s)  
Selecting previously unselected package apt-transport-https.  
(Reading database ... 184185 files and directories currently installed.)  
Preparing to unpack .../apt-transport-https_2.0.6_all.deb ...  
Unpacking apt-transport-https (2.0.6) ...  
Selecting previously unselected package curl.  
Preparing to unpack .../curl_7.68.0-1ubuntu2.7_amd64.deb ...  
Unpacking curl (7.68.0-1ubuntu2.7) ...  
Setting up apt-transport-https (2.0.6) ...  
Setting up curl (7.68.0-1ubuntu2.7) ...  
Processing triggers for man-db (2.9.1-1) ...
```

```
juan@juan-VirtualBox: ~  
juan@juan-VirtualBox:~$ sudo apt install -y code  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following NEW packages will be installed:  
  code  
0 upgraded, 1 newly installed, 0 to remove and 14 not upgraded.  
Need to get 80,9 MB of archives.  
After this operation, 335 MB of additional disk space will be used.  
Get:1 https://packages.microsoft.com/repos/vscode stable/main amd64 code amd64 1.61.2-1634656828 [80,9 MB]  
Fetched 80,9 MB in 5s (15,4 MB/s)  
Selecting previously unselected package code.  
(Reading database ... 184196 files and directories currently installed.)  
Preparing to unpack .../code_1.61.2-1634656828_amd64.deb ...  
Unpacking code (1.61.2-1634656828) ...  
Setting up code (1.61.2-1634656828) ...  
Processing triggers for mime-support (3.64ubuntu1) ...  
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...  
Processing triggers for shared-mime-info (1.15-1) ...  
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...  
juan@juan-VirtualBox:~$
```

To update the program we must look for the command to update the repository

```
sudo add-apt-repository "deb [arch=amd64]  
https://packages.microsoft.com/repos/vscode stable main"
```

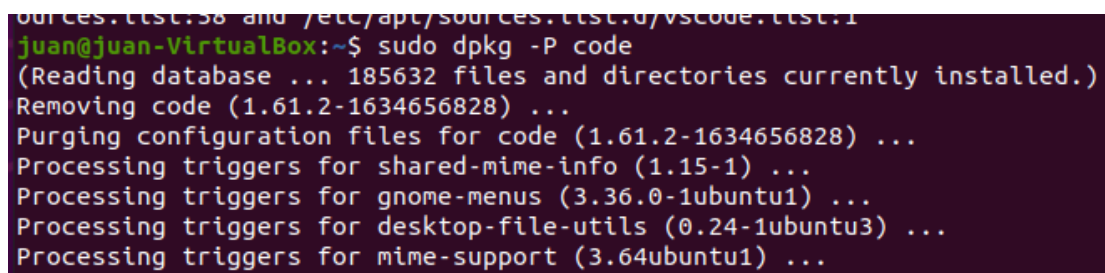


```
instead.  
W: Target Packages (main/binary-amd64/Packages) is configured multiple times in  
/etc/apt/sources.list:58 and /etc/apt/sources.list.d/vscode.list:1  
W: Target Packages (main/binary-all/Packages) is configured multiple times in /e  
tc/apt/sources.list:58 and /etc/apt/sources.list.d/vscode.list:1  
W: Target Translations (main/i18n/Translation-en_US) is configured multiple time  
s in /etc/apt/sources.list:58 and /etc/apt/sources.list.d/vscode.list:1  
W: Target Translations (main/i18n/Translation-en) is configured multiple times i  
n /etc/apt/sources.list:58 and /etc/apt/sources.list.d/vscode.list:1  
W: Target DEP-11 (main/dep11/Components-amd64.yml) is configured multiple times  
in /etc/apt/sources.list:58 and /etc/apt/sources.list.d/vscode.list:1  
W: Target DEP-11 (main/dep11/Components-all.yml) is configured multiple times in  
/etc/apt/sources.list:58 and /etc/apt/sources.list.d/vscode.list:1  
W: Target DEP-11-icons-small (main/dep11/icons-48x48.tar) is configured multiple  
times in /etc/apt/sources.list:58 and /etc/apt/sources.list.d/vscode.list:1  
W: Target DEP-11-icons (main/dep11/icons-64x64.tar) is configured multiple times  
in /etc/apt/sources.list:58 and /etc/apt/sources.list.d/vscode.list:1  
W: Target DEP-11-icons-hidpi (main/dep11/icons-64x64@2.tar) is configured multip  
le times in /etc/apt/sources.list:58 and /etc/apt/sources.list.d/vscode.list:1  
W: Target CNF (main/cnf/Commands-amd64) is configured multiple times in /etc/apt  
/sources.list:58 and /etc/apt/sources.list.d/vscode.list:1  
W: Target CNF (main/cnf/Commands-all) is configured multiple times in /etc/apt/s  
ources.list:58 and /etc/apt/sources.list.d/vscode.list:1  
juan@juan-VirtualBox:~$
```

to uninstall the program we must use the following command

```
sudo dpkg -P code
```

with this we will uninstall the program



```
sources.list:58 and /etc/apt/sources.list.d/vscode.list:1  
juan@juan-VirtualBox:~$ sudo dpkg -P code  
(Reading database ... 185632 files and directories currently installed.)  
Removing code (1.61.2-1634656828) ...  
Purging configuration files for code (1.61.2-1634656828) ...  
Processing triggers for shared-mime-info (1.15-1) ...  
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...  
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...  
Processing triggers for mime-support (3.64ubuntu1) ...
```