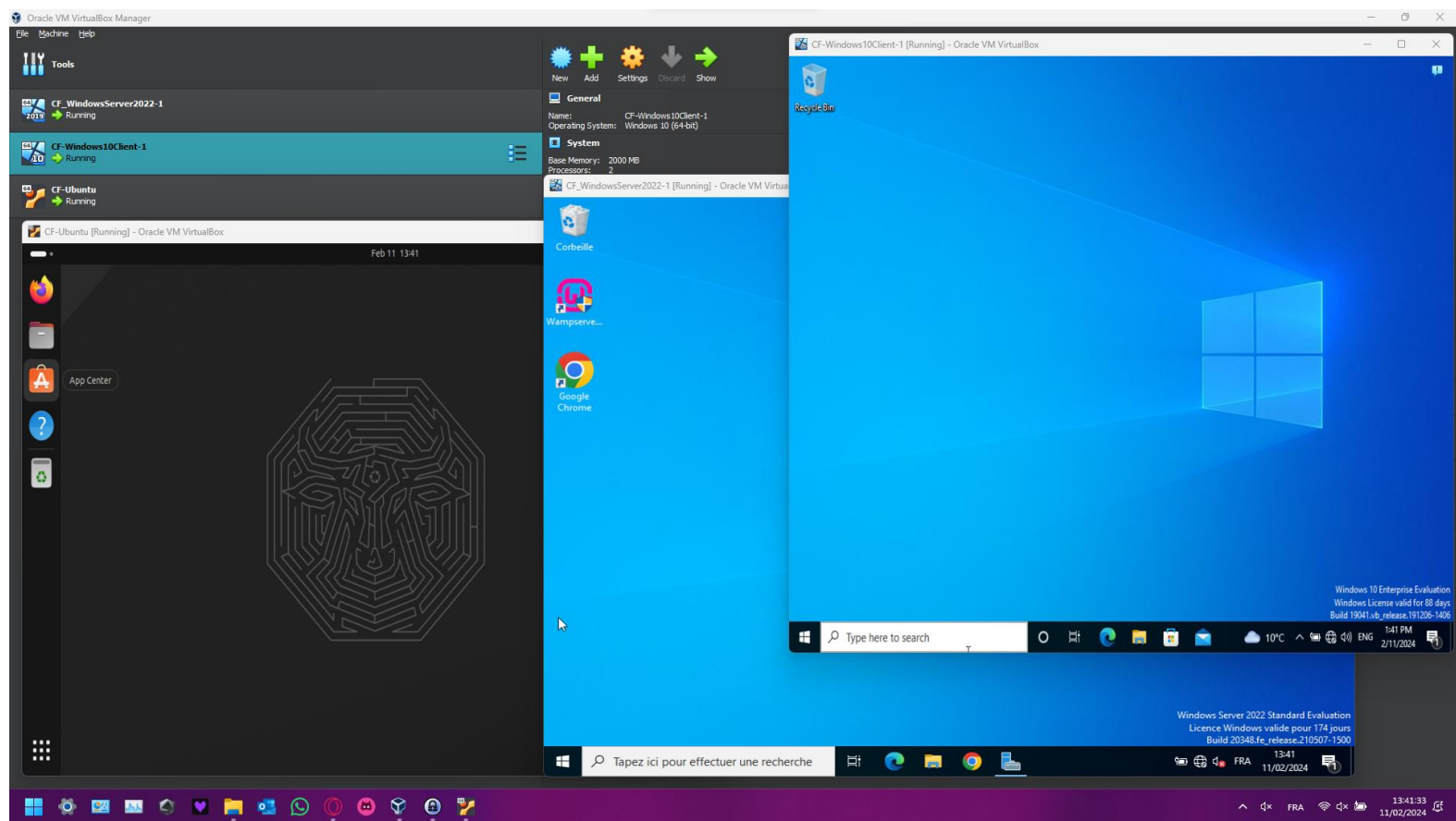


Task 1: Lab Setup

3 virtual machines have been created :

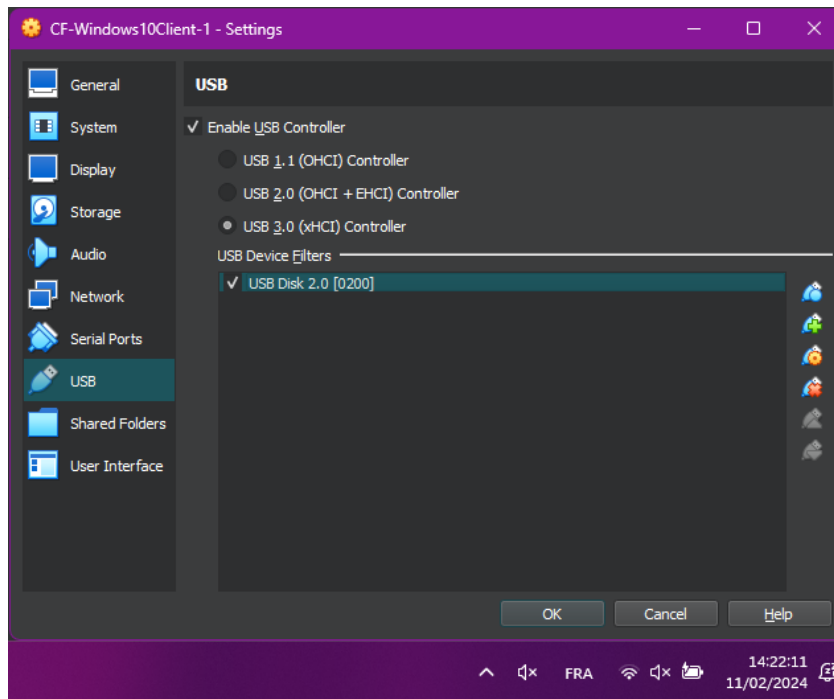
- Windows 10 client
- Windows Server 2022
- Ubuntu



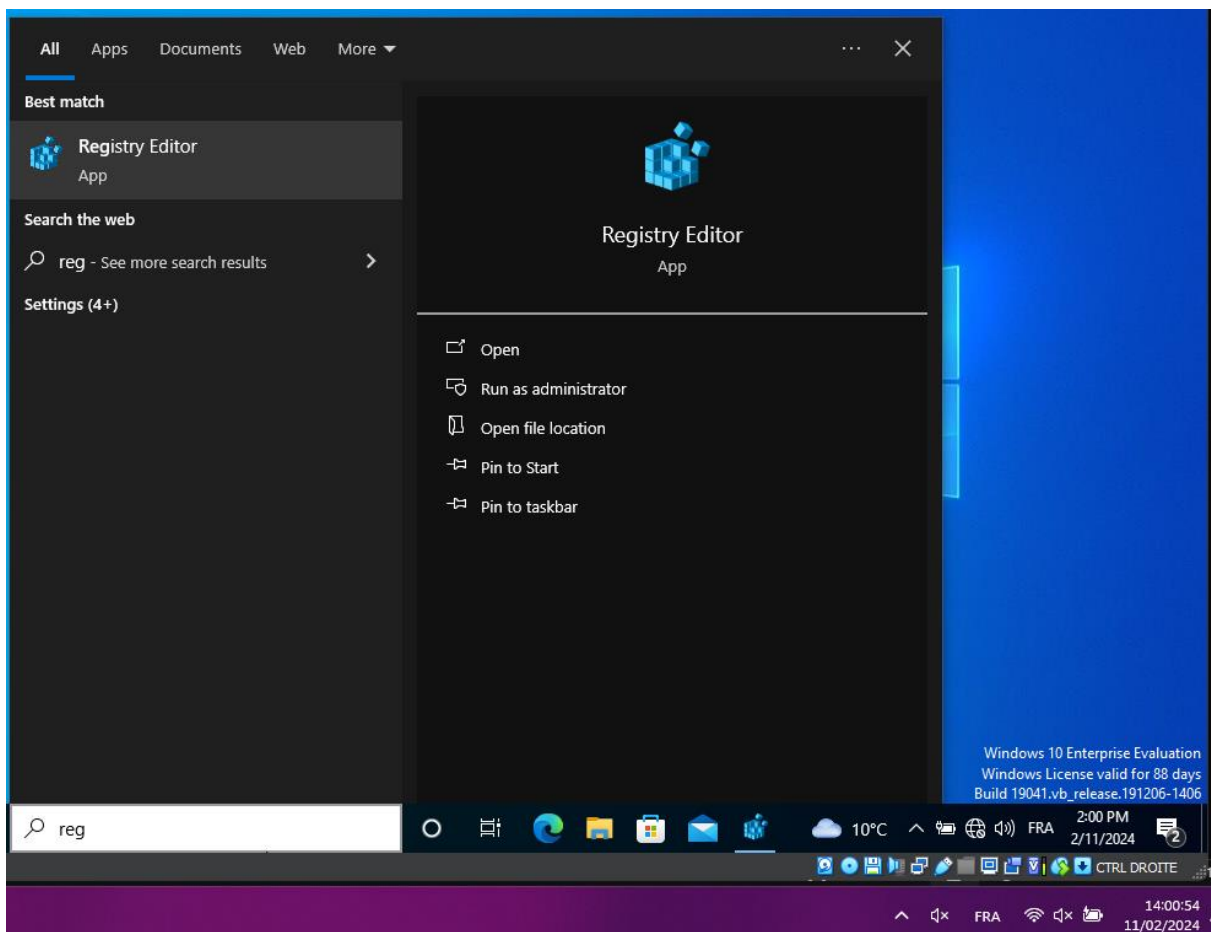
Task 2: Ensuring Integrity

To prevent the Virtual Lab to be able to write on USB disk, we need to block the ability to write.

We firstly verify that the virtual windows 10 client can have access to USB disks :



After verifying this, we can open the Registry Editor to set up the blocking system:

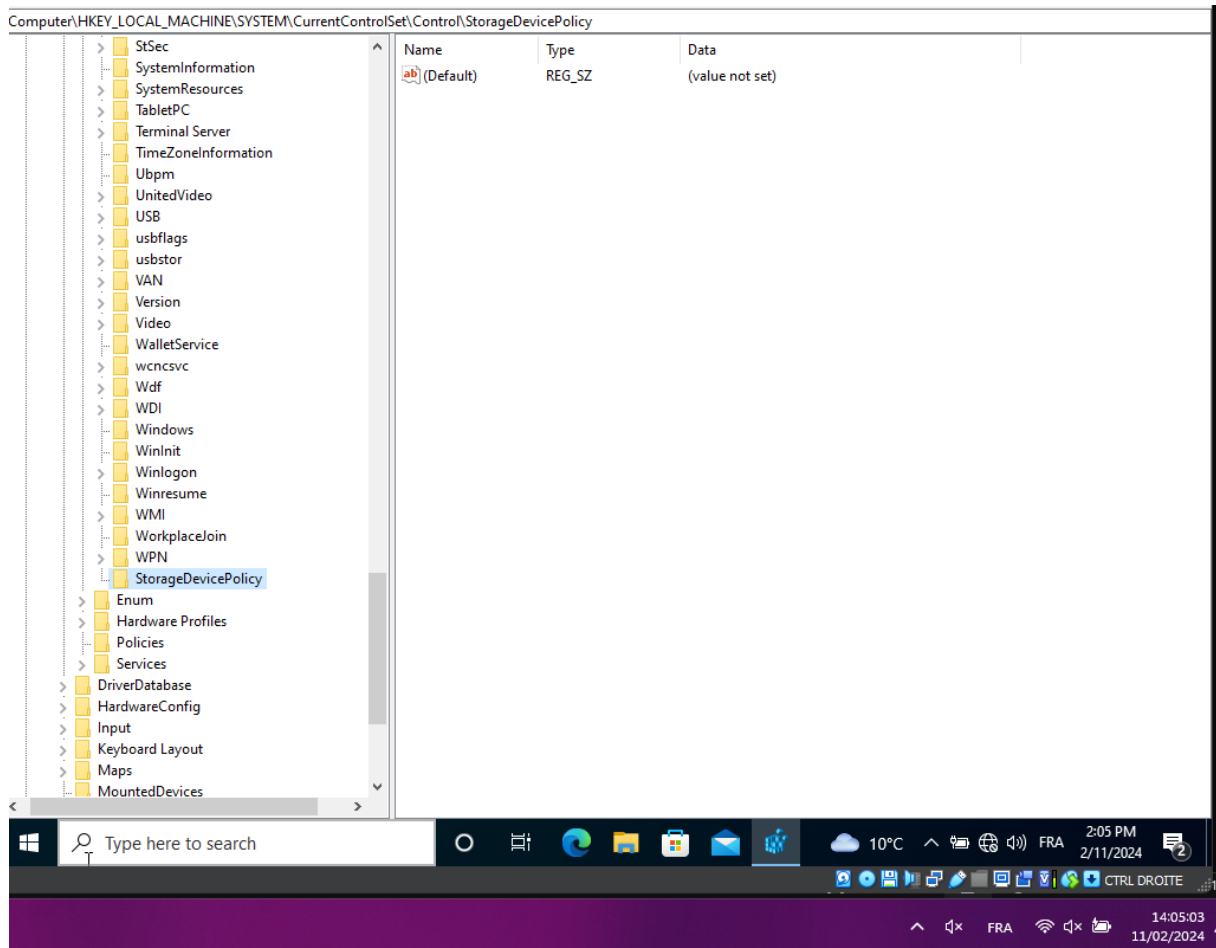


By opening the Registry Editor, we can now add a new control for the virtual computer to block it the writing ability on USB disks.

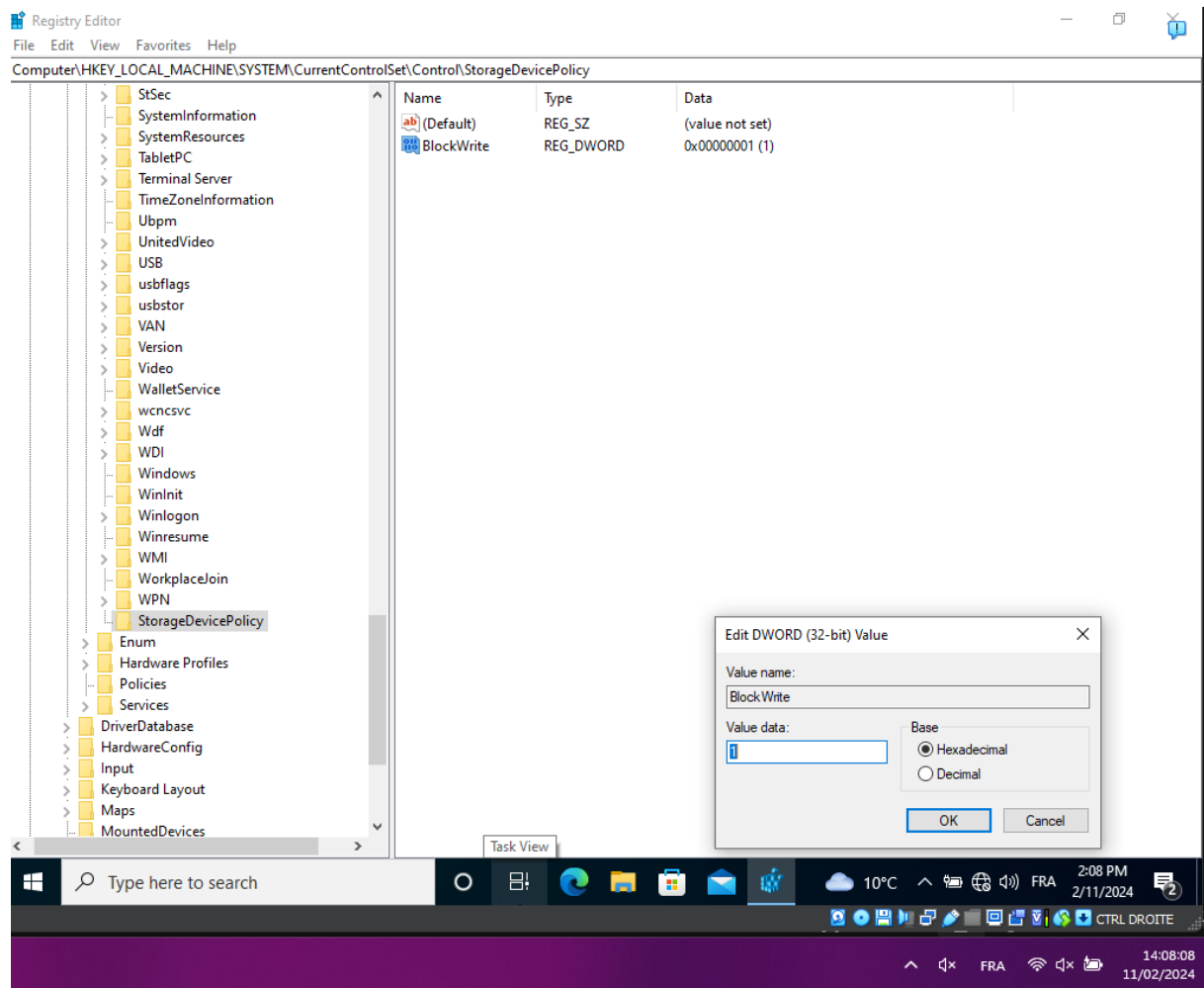
For that, we need to go into

“Computer\HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control” to see all the controls available.

After, we can create a new key called StorageDevicePolicy.



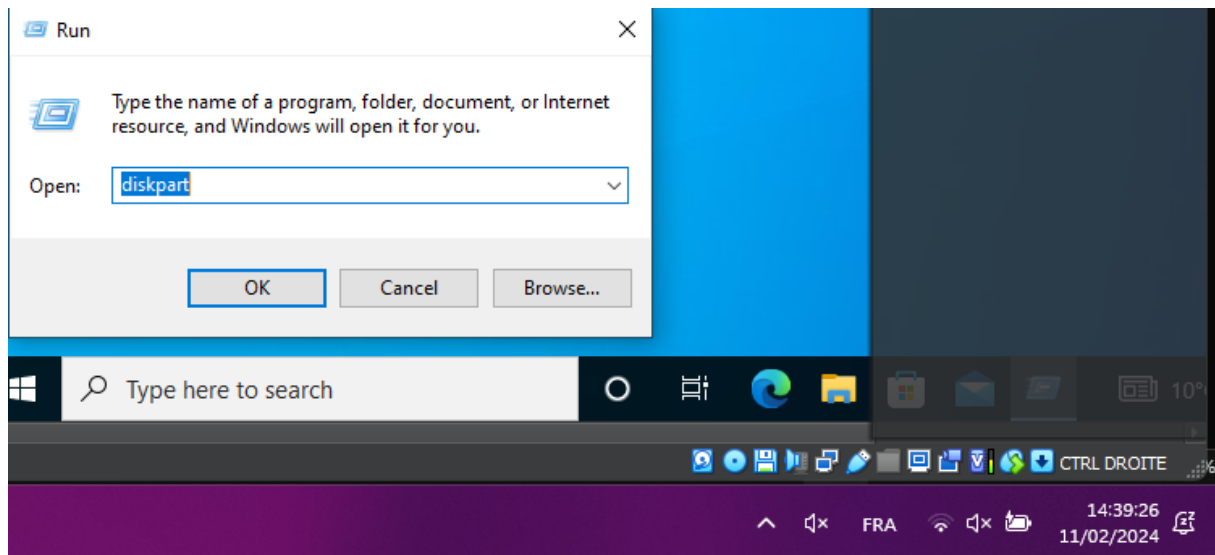
With this new key, we can create a DWORD value called BlockWrite, and by setting its value to 1, the virtual computer won't be able to write in a USB disk.



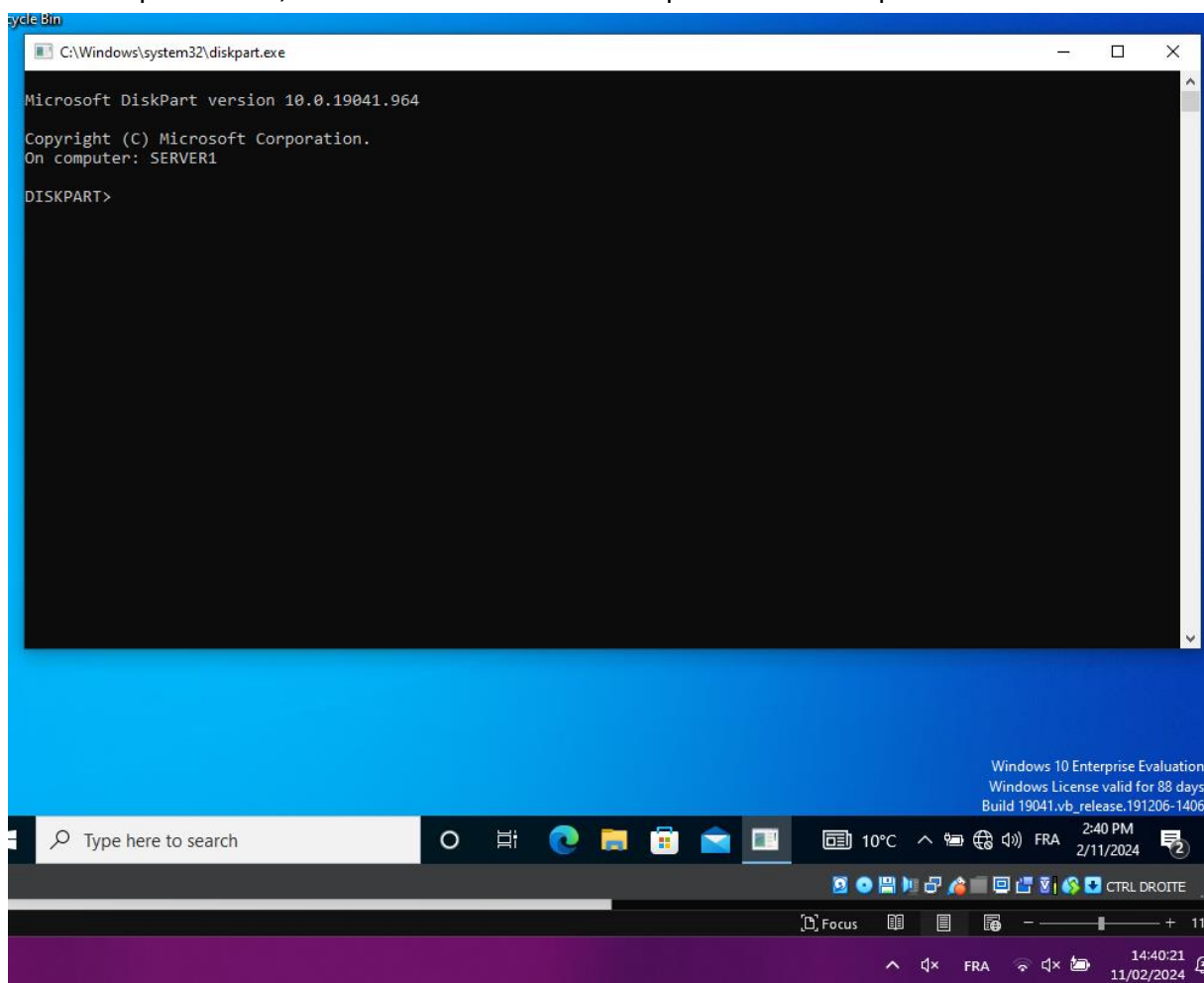
We can now try this by creating a text file and copying into a USB disk.

When I tried using this method, I encountered a problem where the disk is not write-protected. With some research, I found another method to achieve the same result :

We can press Win+R and type diskpart.



When we press enter, we can now see a command panel called diskpart.exe.



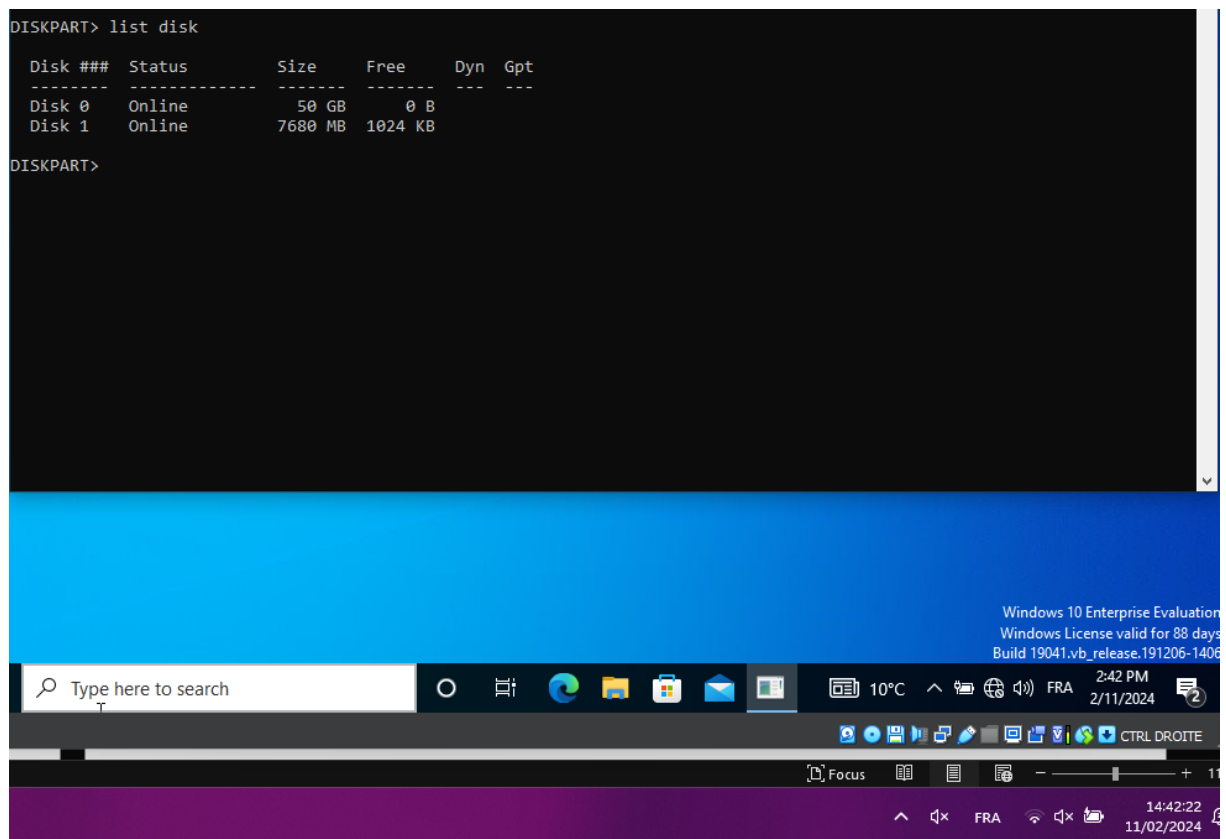
If we run the command “list disk”, we can see the different disks in the virtual machine :

- Disk 0 => the default computer disk
- Disk 1 => the USB disk connected

```
DISKPART> list disk
```

Disk ###	Status	Size	Free	Dyn	Gpt
Disk 0	Online	50 GB	0 B		
Disk 1	Online	7680 MB	1024 KB		

```
DISKPART>
```

The screenshot shows a Windows 10 desktop environment. At the top, there is a blue header bar with the text "Windows 10 Enterprise Evaluation" and "Windows License valid for 88 days". Below this is a search bar with the text "Type here to search". The taskbar is visible at the bottom, showing various application icons and the system tray. The system tray includes a clock showing "2:42 PM" and "2/11/2024". The command prompt window is open, displaying the output of the "list disk" command.

With this, we can select the disk 1 with the command “select Disk 1” and see all the attributes of this disk using the command “attribute Disk”.

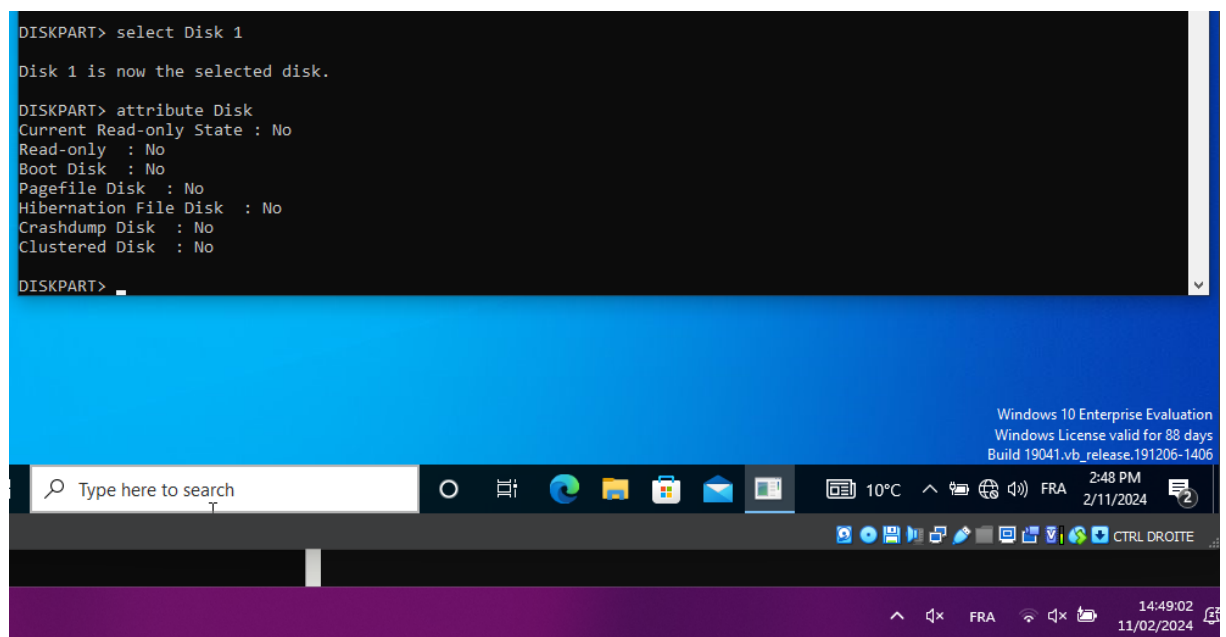
```
DISKPART> select Disk 1
```

Disk 1 is now the selected disk.

```
DISKPART> attribute Disk
```

Current Read-only State : No
Read-only : No
Boot Disk : No
Pagefile Disk : No
Hibernation File Disk : No
Crashdump Disk : No
Clustered Disk : No

```
DISKPART>
```

The screenshot shows the same Windows 10 desktop environment as the previous one. The command prompt window is open, displaying the output of the "select Disk 1" and "attribute Disk" commands. The system tray shows a clock showing "2:48 PM" and "2/11/2024".

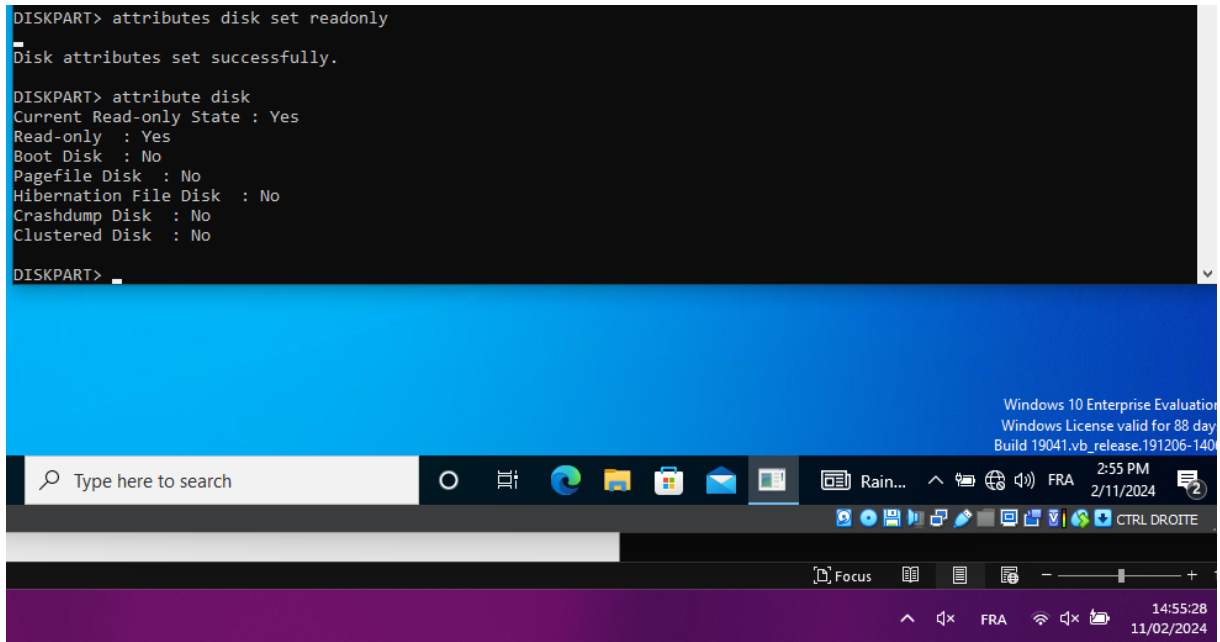
When we look through the different attributes, we can see that there is one called “Current Read_only state” and it is set to no.

We need to set the disk on Readonly with the command “attributes disk set readonly”. We can verify that the disk is on read only by doing the command “attribute Disk”.

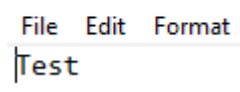
```
DISKPART> attributes disk set readonly
Disk attributes set successfully.

DISKPART> attribute disk
Current Read-only State : Yes
Read-only : Yes
Boot Disk : No
Pagefile Disk : No
Hibernation File Disk : No
Crashdump Disk : No
Clustered Disk : No

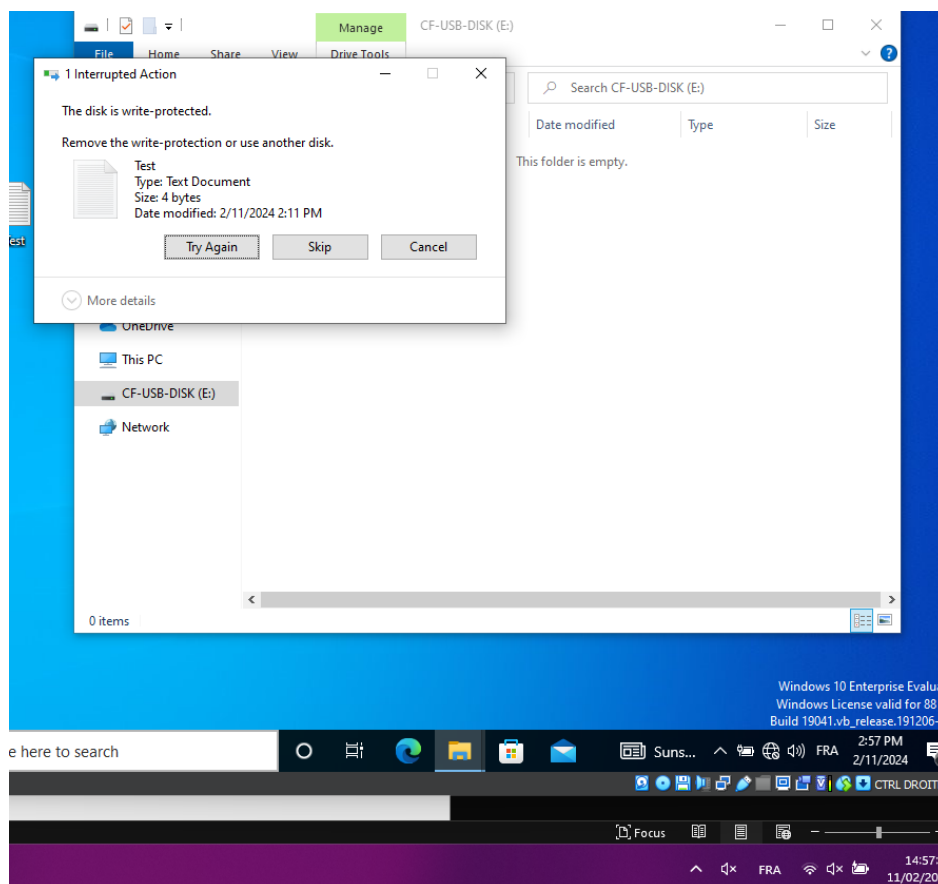
DISKPART> _
```

A screenshot of a Windows 10 desktop. The background is a blue gradient. In the top right corner, text reads: "Windows 10 Enterprise Evaluation", "Windows License valid for 88 day", "Build 19041.vb_release.191206-140". The taskbar is at the bottom, showing the search bar with "Type here to search", several application icons (Edge, File Explorer, Mail, etc.), and the system tray with the date "2:55 PM 2/11/2024" and location "FRA". A command prompt window is open, displaying the output of the DISKPART commands. The taskbar also shows a "Focus" button and a "CTRL DROITE" button.

We can now try creating a text file called Test.txt ( Test - Notepad) and move it into the disk.



We have now an error message saying that the disk is write-protected. (see screenshot below)



 1 Interrupted Action



The disk is write-protected.

Remove the write-protection or use another disk.



Test
Type: Text Document
Size: 4 bytes
Date modified: 2/11/2024 2:11 PM

Try Again

Skip

Cancel



More details