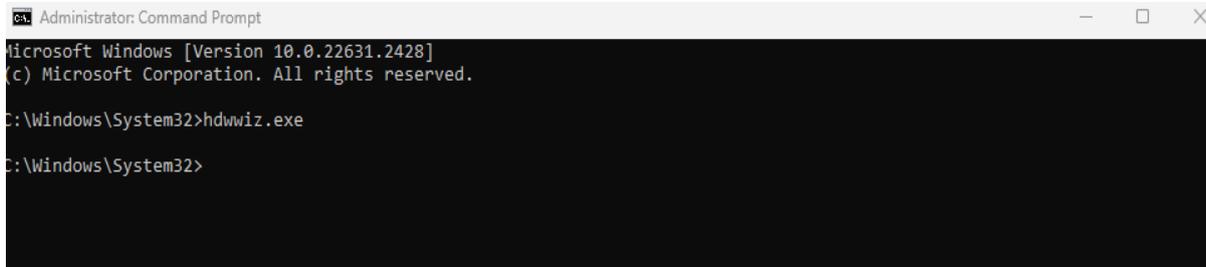


How to create and configure a virtual adapter

- **Steps :**

1- Run Command Prompt as administrator and run the command hdwwiz.exe:

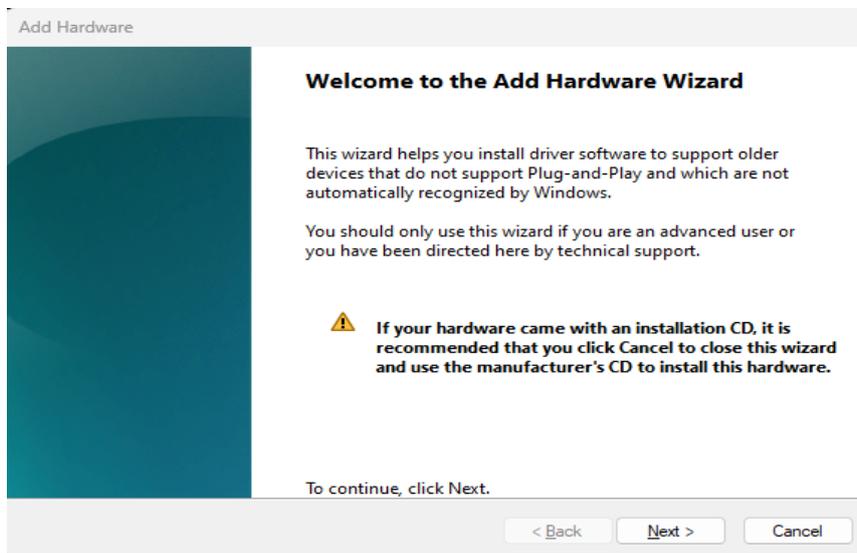


```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.22631.2428]
(c) Microsoft Corporation. All rights reserved.

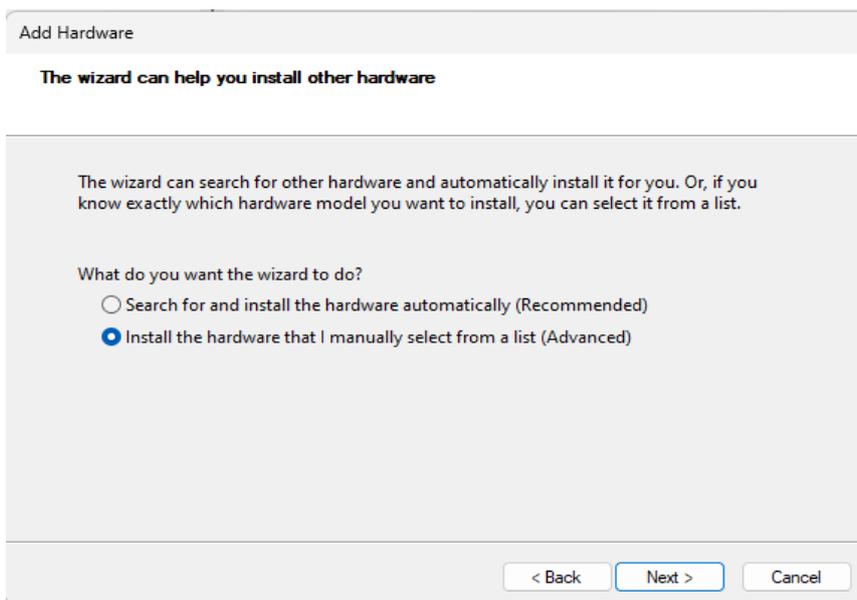
C:\Windows\System32>hdwwiz.exe

C:\Windows\System32>
```

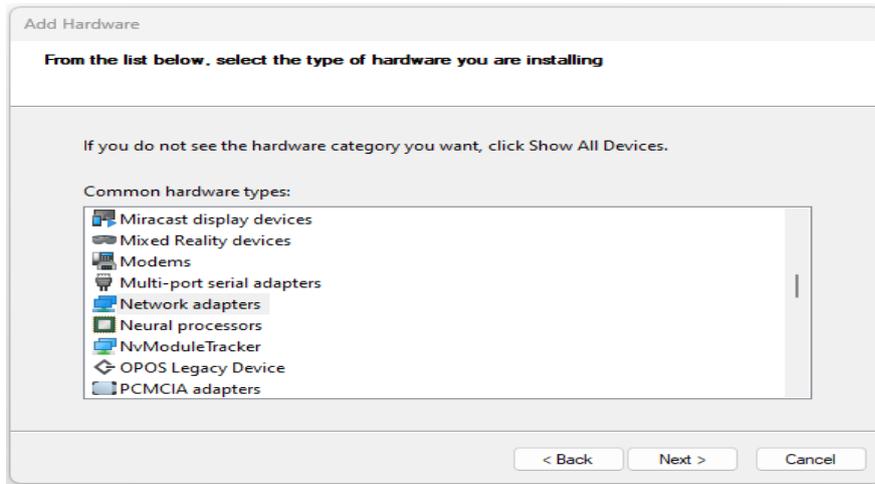
2- Click Next:



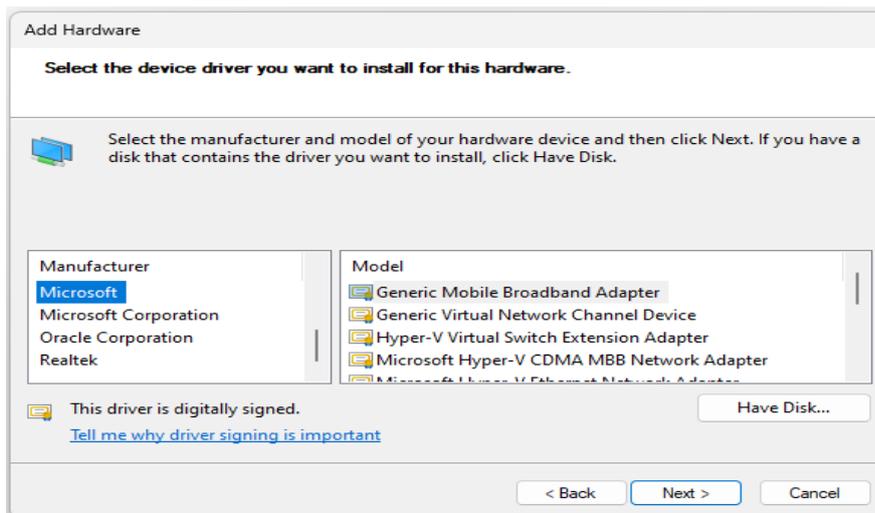
3- Select [Install the hardware that I manually select from a list \(Advanced\)](#), Then Click Next:



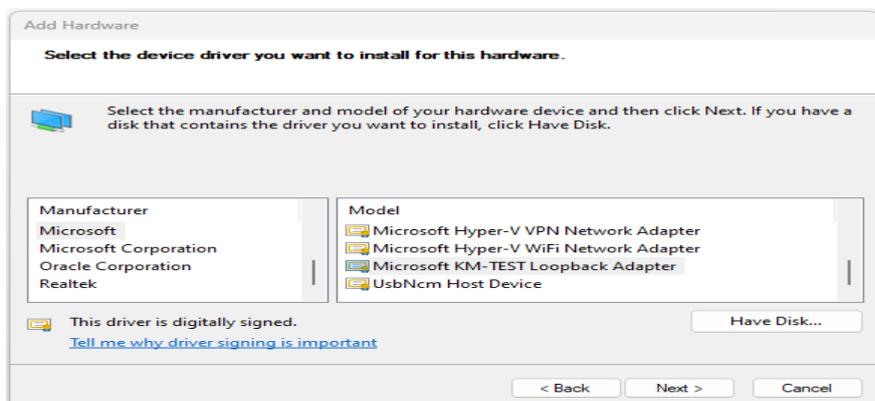
- 4- Scroll down the list and go till you see **Network adapters** in the list, and when you see, select it as shown below. Then Click Next:



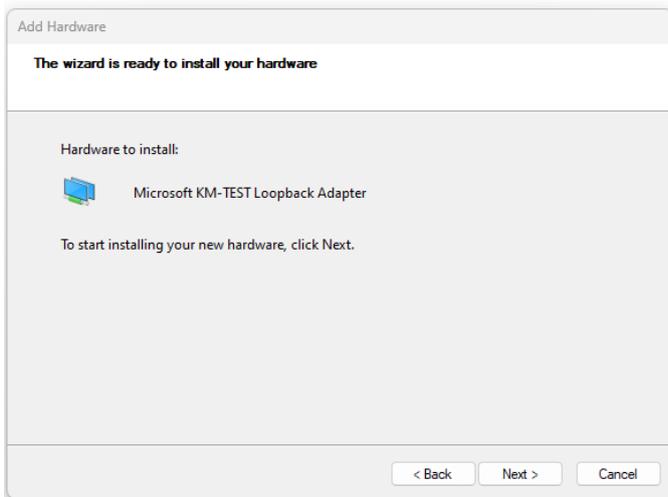
- 5- On the left-hand panel (Manufacturer list), scroll down and look out for **Microsoft**:



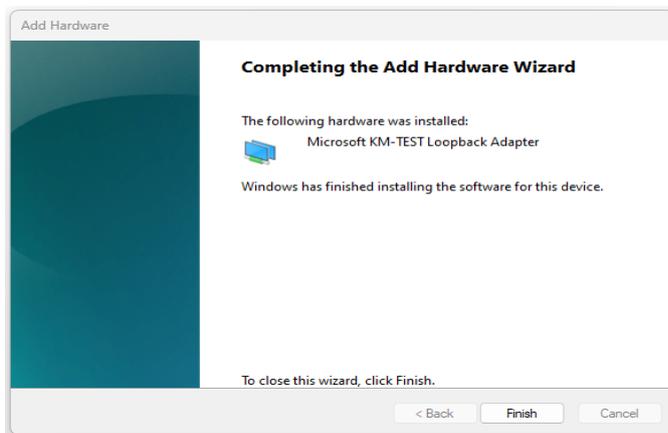
- 6- Now scroll down the right-hand side list and look for **Microsoft KM-TEST Loopback Adapter** in the list. Select it as shown below. Then Click Next:



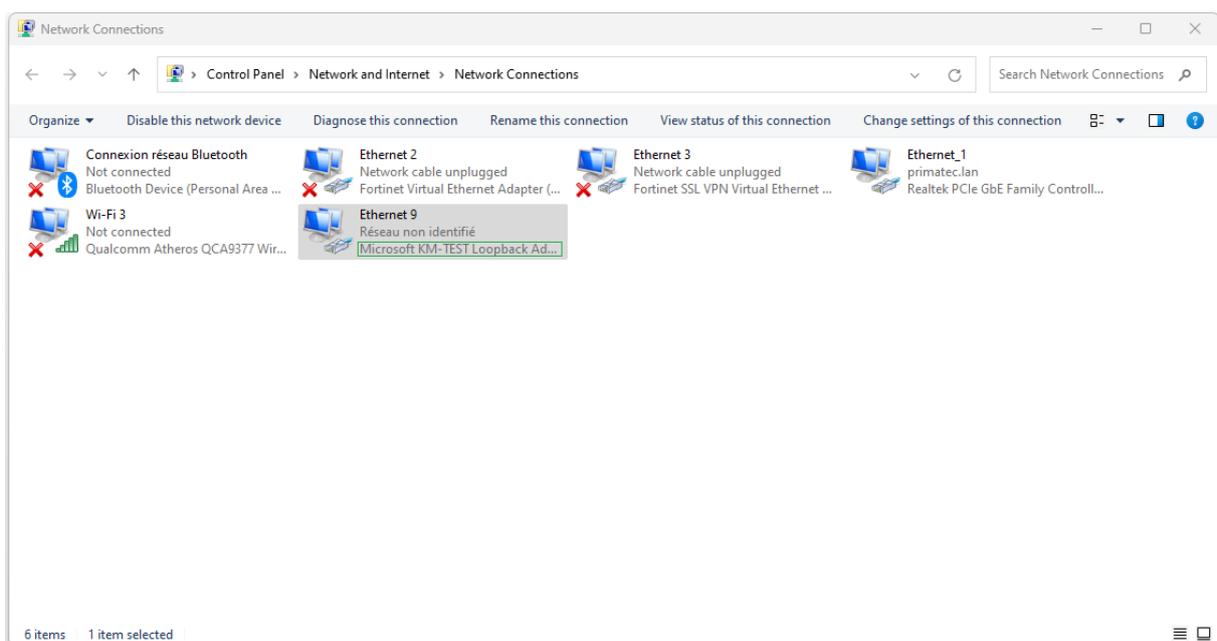
7- Once you click Next, windows will create the adapter and the finish window will appear as below:



8- Click Finish in the last window.

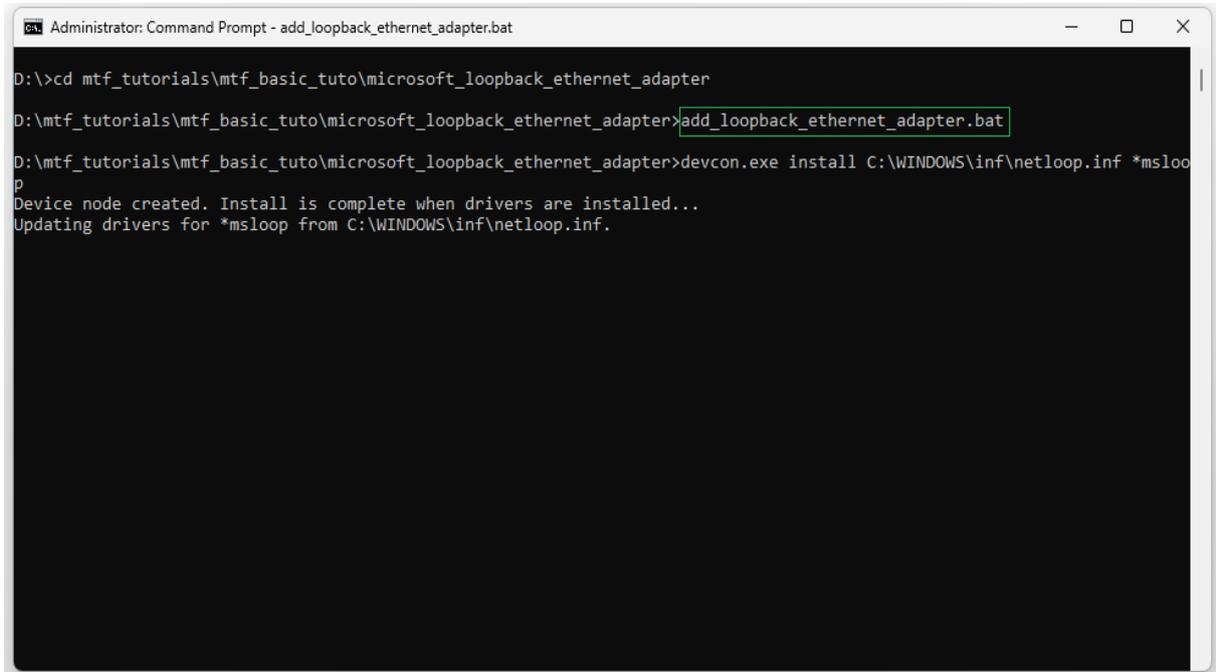


9- Check the adapter is created.



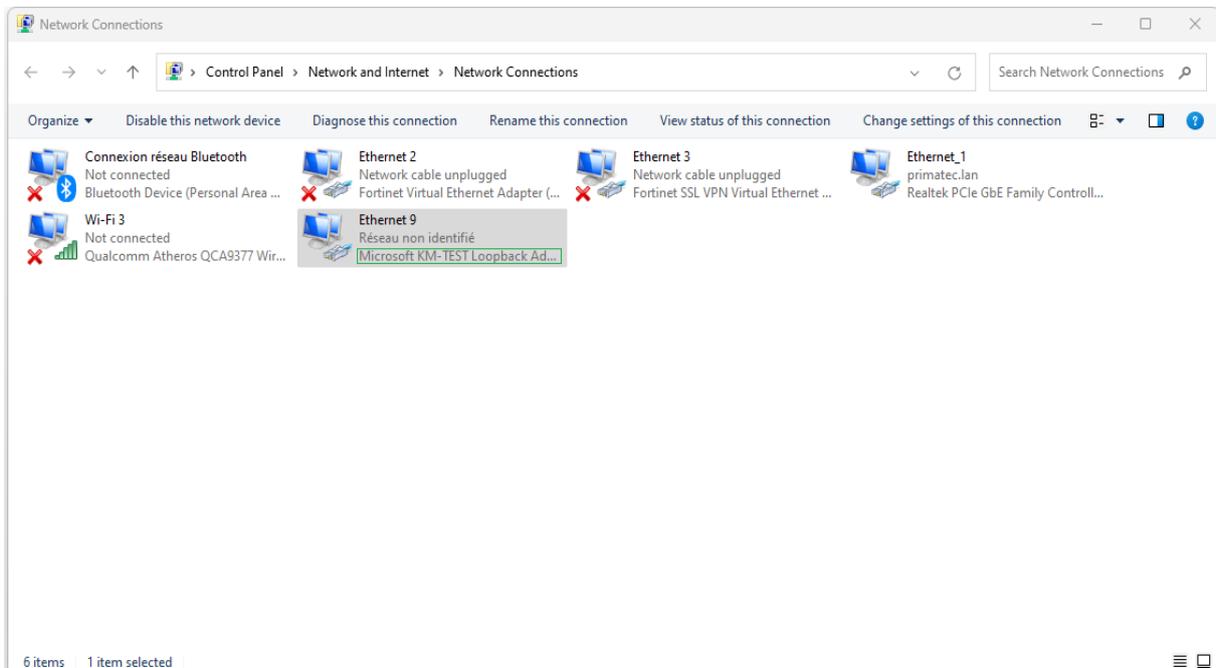
- **Method 2 :**

- 1- Open Command Prompt as administrator.
- 2- Using the `cd` command to change folder to `mtf_tutorials\mtf_basic_tuto\microsoft_loopback_ethernet_adapter .`
- 3- Run bat file "add_loopback_ethernet_adapter.bat":



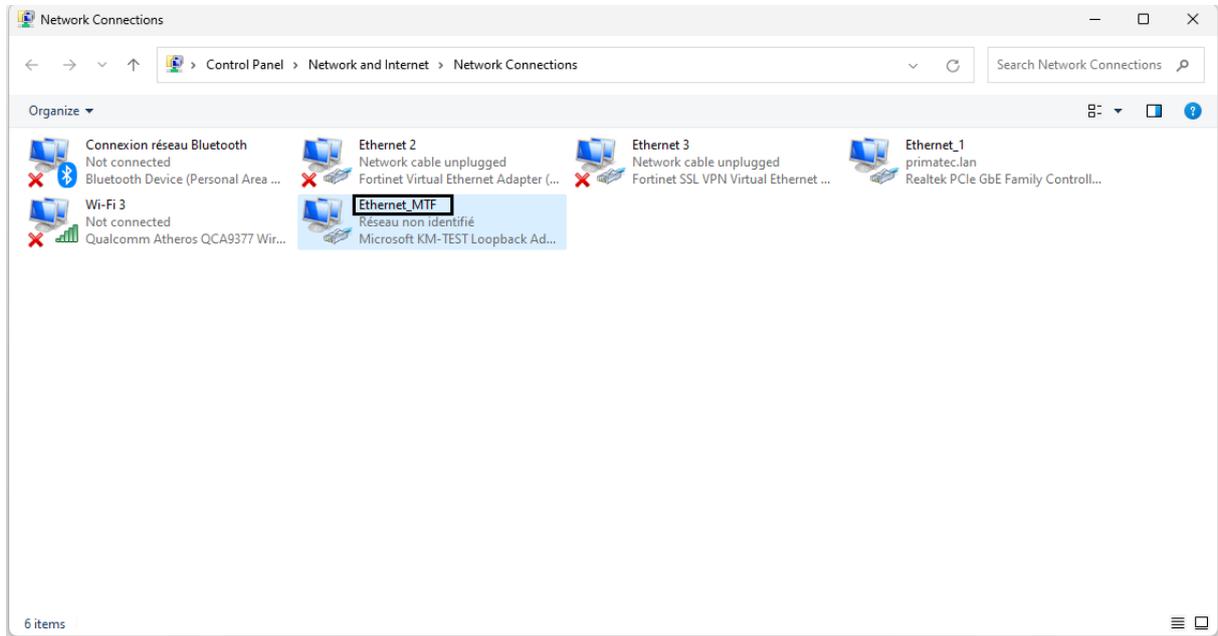
```
Administrator: Command Prompt - add_loopback_ethernet_adapter.bat
D:\>cd mtf_tutorials\mtf_basic_tuto\microsoft_loopback_ethernet_adapter
D:\mtf_tutorials\mtf_basic_tuto\microsoft_loopback_ethernet_adapter>add_loopback_ethernet_adapter.bat
D:\mtf_tutorials\mtf_basic_tuto\microsoft_loopback_ethernet_adapter>devcon.exe install C:\WINDOWS\inf\netloop.inf *msloop
Device node created. Install is complete when drivers are installed..
Updating drivers for *msloop from C:\WINDOWS\inf\netloop.inf.
```

- 4- Check the adapter is created:



The second step changing the naming of the adapter created by the last step, Then configure the needed IP address

- 1- Changing the naming of the adapter to [Ethernet_MTF](#)



- 2- Open Command Prompt as administrator.
- 3- Run python script `mtf_tutorials\mtf_basic_tuto\microsoft_loopback_ethernet_adapter\set_ips_address.py` which is located under `microsoft_loopback_ethernet_adapter` folder.

