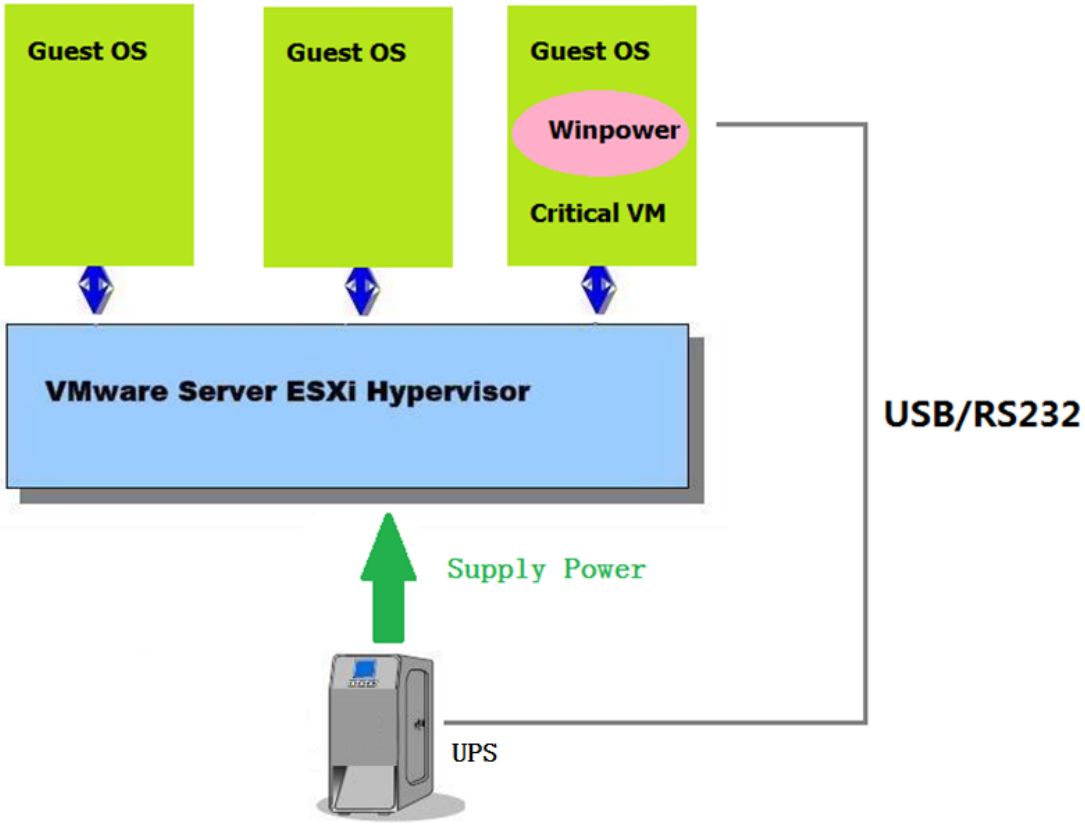
Software for VMware ESXi via USB/RS232 (paid version)

1 Over viewer

1.1 Topological structure

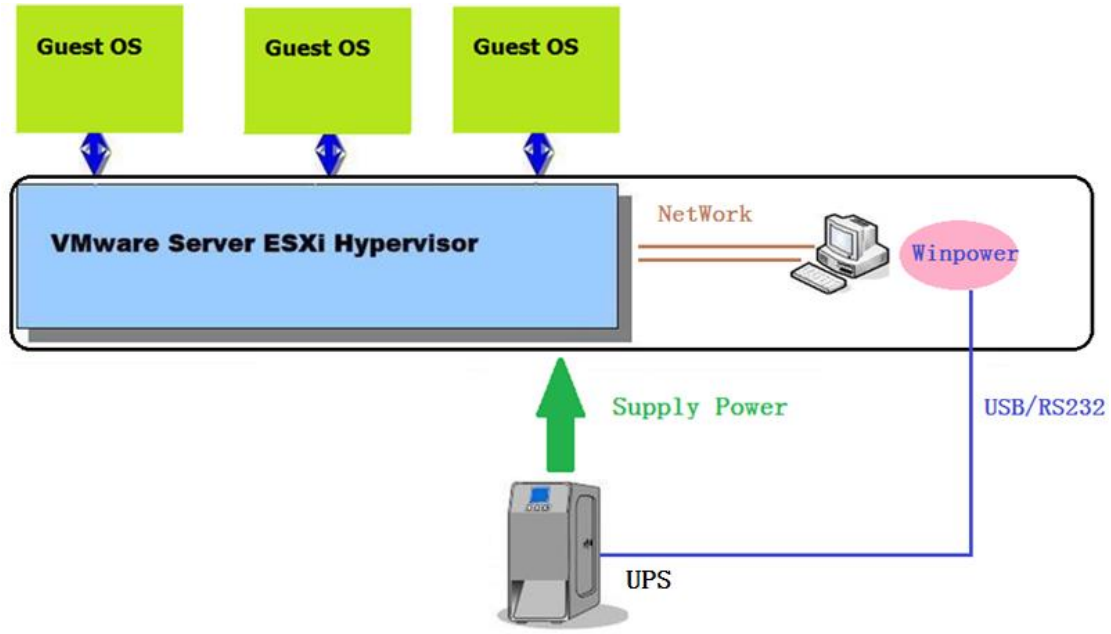
- **Case 1:**

Software can be installed on any of the Guest OS, just as windows, Linux, Mac OSX, Solaris.
Please make sure the "**VMware tools**" are installed for all the Guest OS.
The guest OS that is installed Software is the Critical VM.



- **Case 2:**

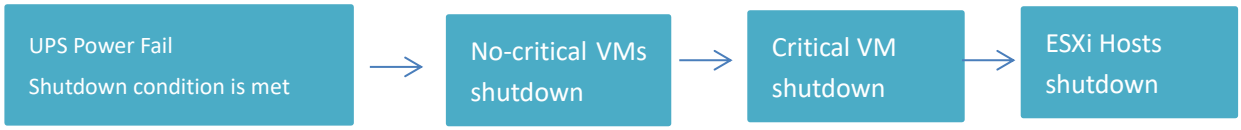
Software can be installed on the other physical Computer at the same network with VMware ESXi, just like Windows, Linux, Mac OSX, Solaris.
Please make sure the "**VMware tools**" are installed for the all the Guest OS.



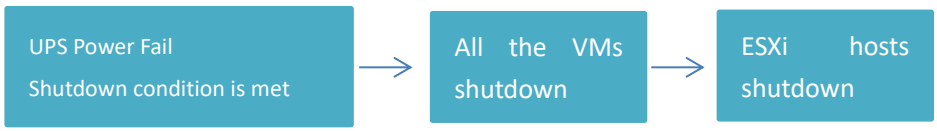
1.2 Shutdown Sequence

Case 1（Case 1 has two Instances）:

- Software shut down the VMs and Hosts(Host disable Autostart)



- Software only shut down the Hosts(Host enable Autostart)



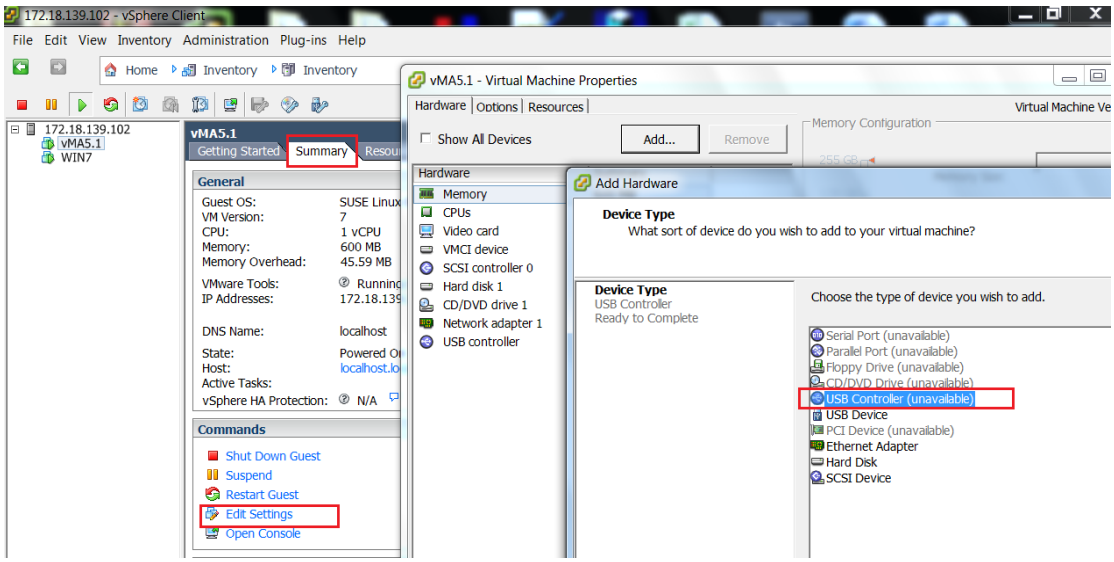
Case 2:

2 Configuring for critical guest OS(only need to be done for case1)

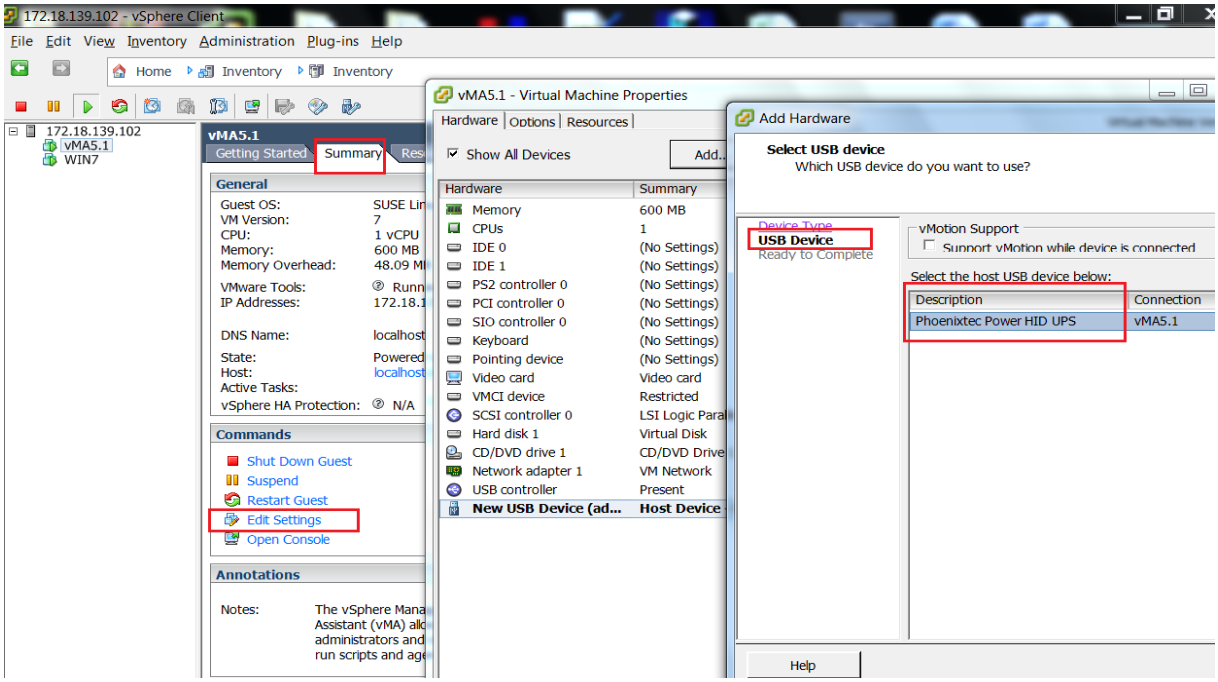
2.1 USB Communication

2.1.1 Earlier than ESXi 6.5:

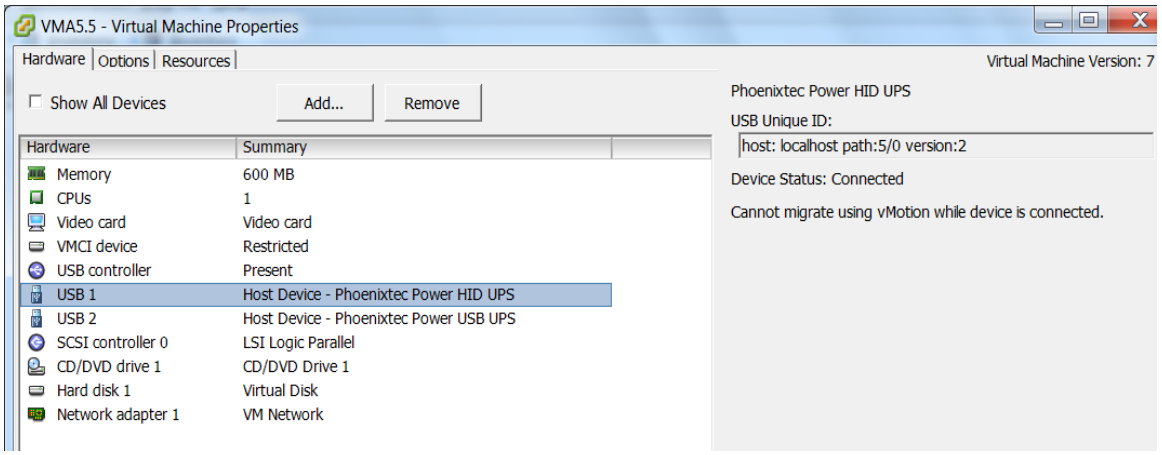
- Choose the critical guest OS that Software is installed , Add the USB controller by the "**Summary**"->"**Edit setting**"->"**add**"->"**USB Controller**"



- Choose the critical guest OS that Software is installed, Add the USB device by the "**Summary**"->"**Edit setting**"->"**add**"->"**USB device**", make sure the UPS is connected.



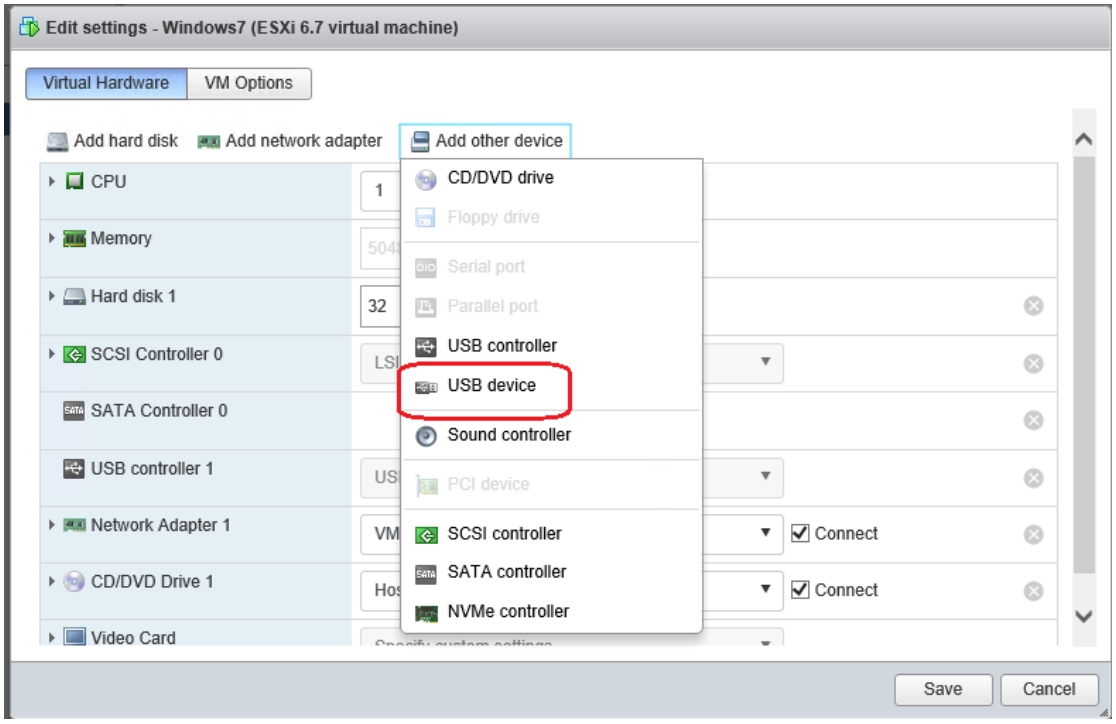
- The UPS USB can be added successfully as below image



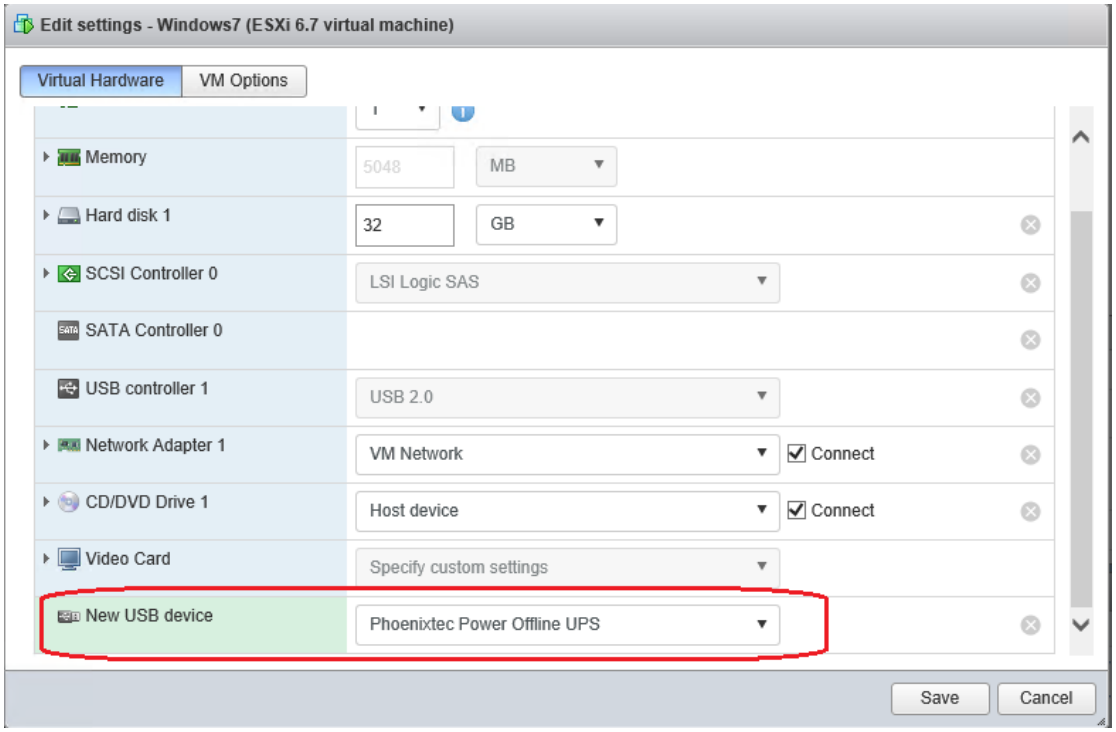
- Restart the guest OS after adding the USB controller and USB device

2.1.2 Later than ESXi 6.5:

- Choose the critical guest OS that Software is installed, Add the USB device by the ”**Edit settings**”->”**add other device**”->”**USB device**”



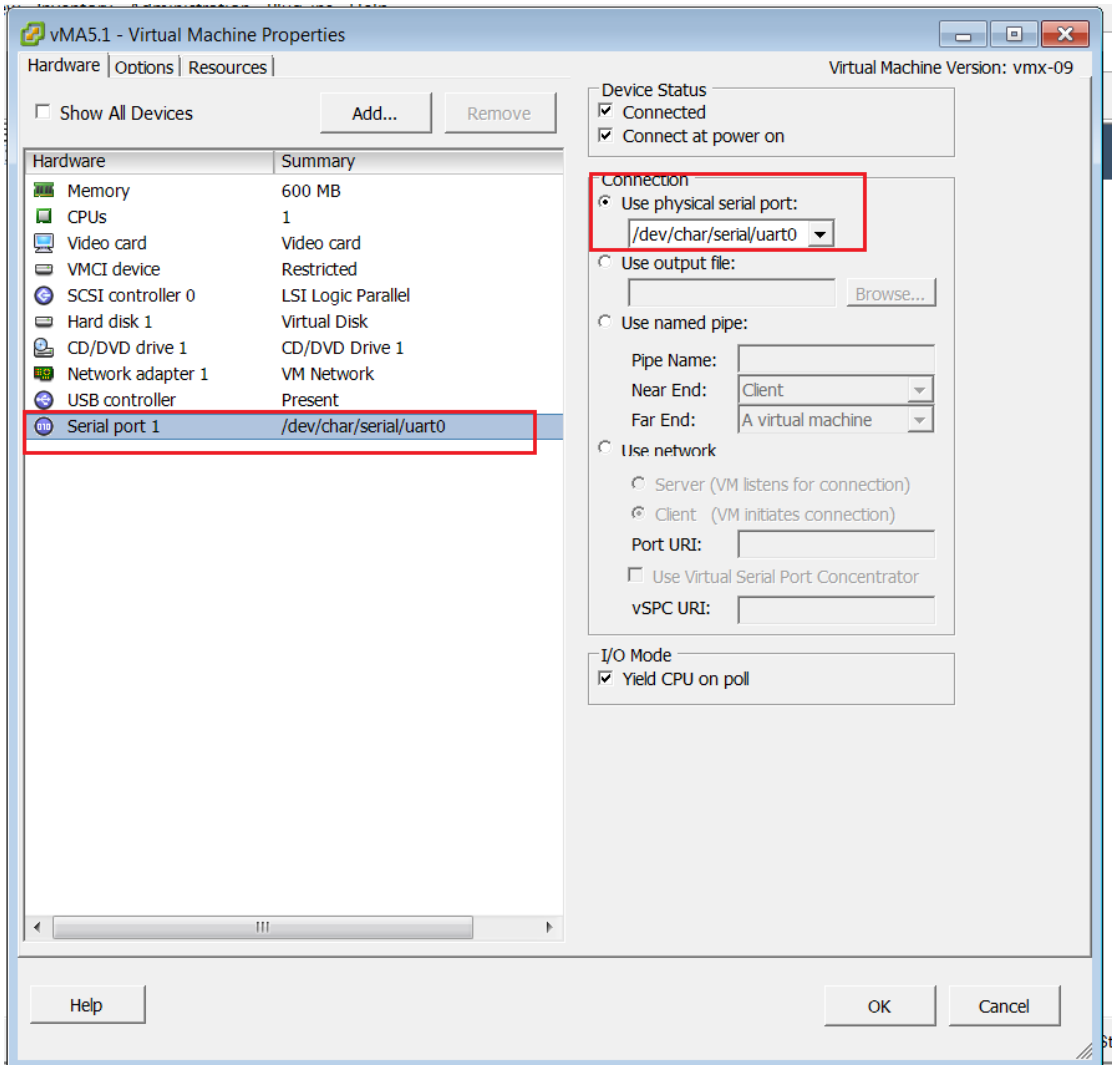
- The UPS USB can be added successfully as below image



2.2 RS232 Communication

2.2.1 Earlier than ESXi 6.5:

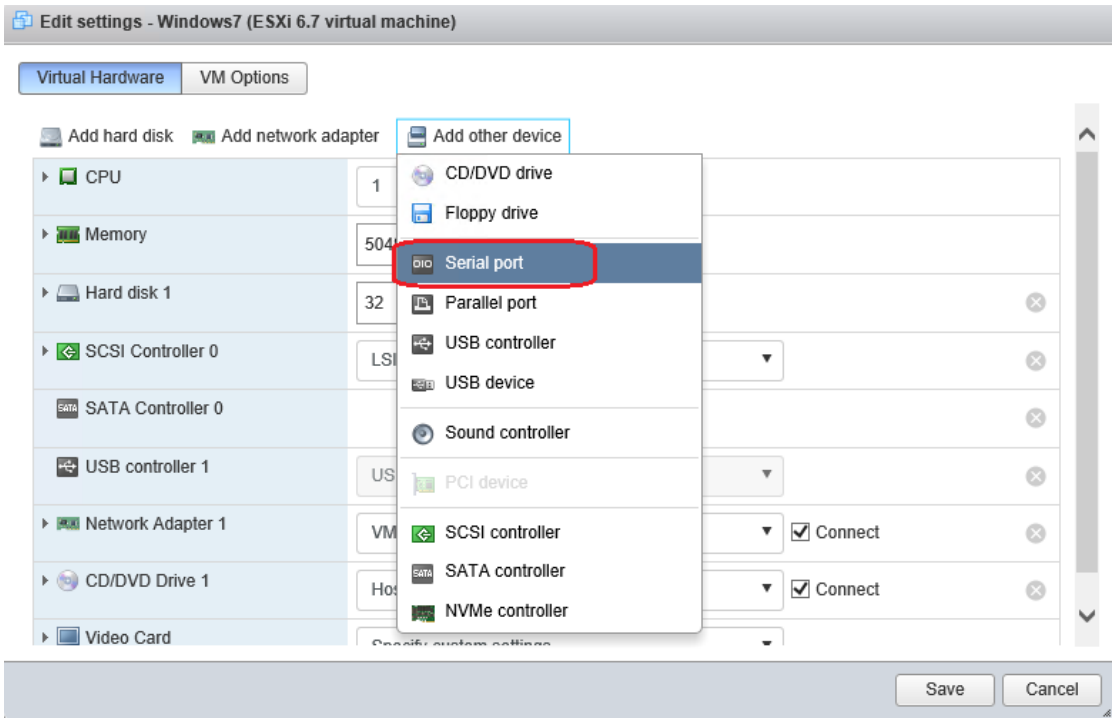
- Power off the critical guest OS that Software is installed, right click it. Add the serial port by the "**Summary**"->"**Edit setting**"->"**add**"->"**Serial Port**"->"**Use physical serial port**", the serial port name is "/dev/char/serial/uart0" as default.



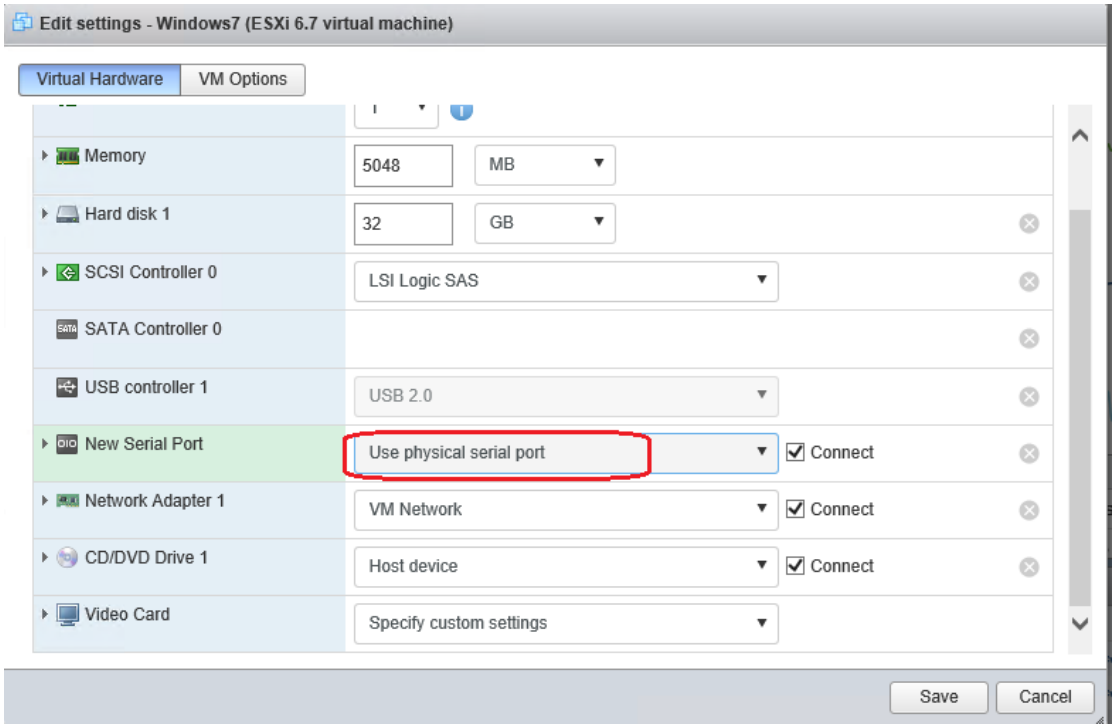
- Restart the guest OS after adding the serial port

2.2.2 Later than ESXi 6.5:

- Power off the critical guest OS that Software is installed, right click it. Add the serial port by the "**Edit settings**"->"**add other device**"->"**Serial Port**"->



- Choose “Use physical serial port”

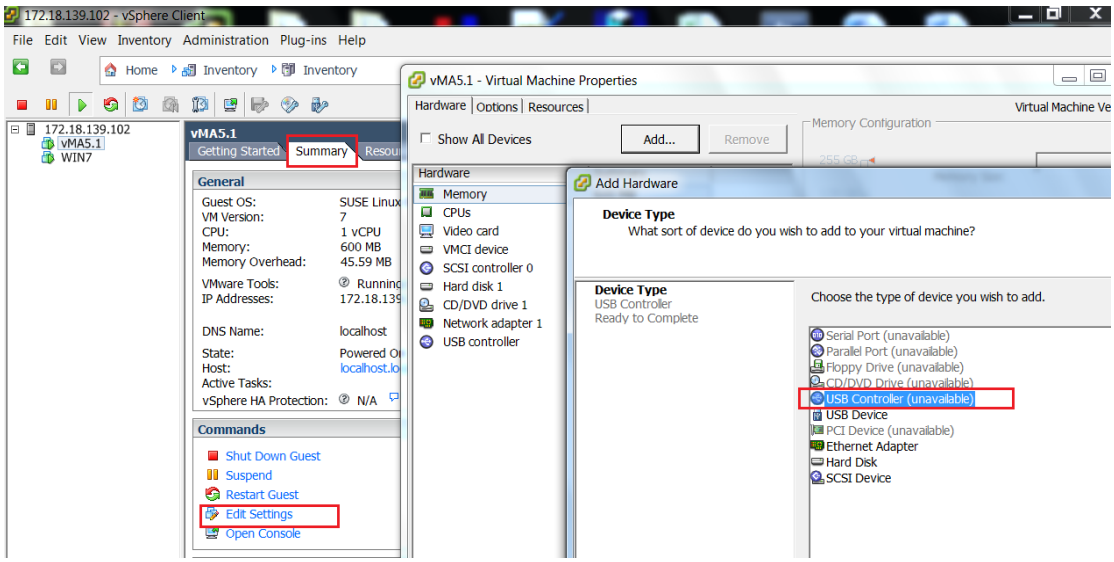


- Restart the guest OS after adding the serial port

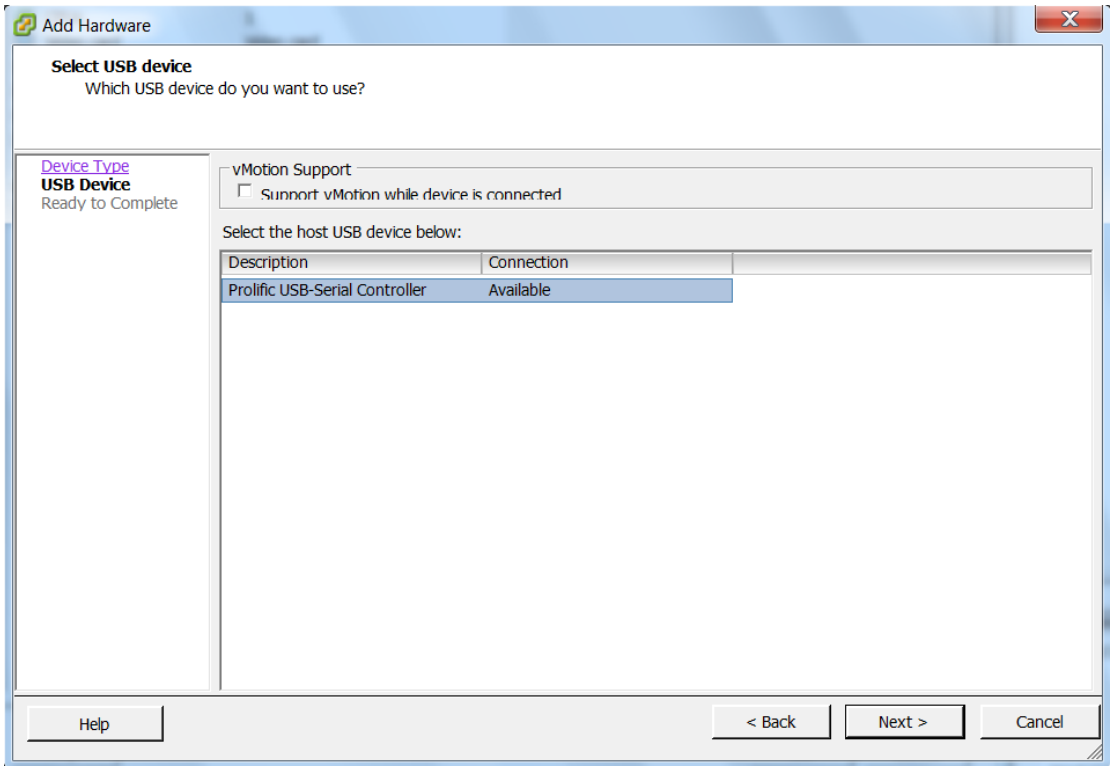
2.3 USB TO RS232 Communication

2.3.1 Earlier than ESXi 6.5:

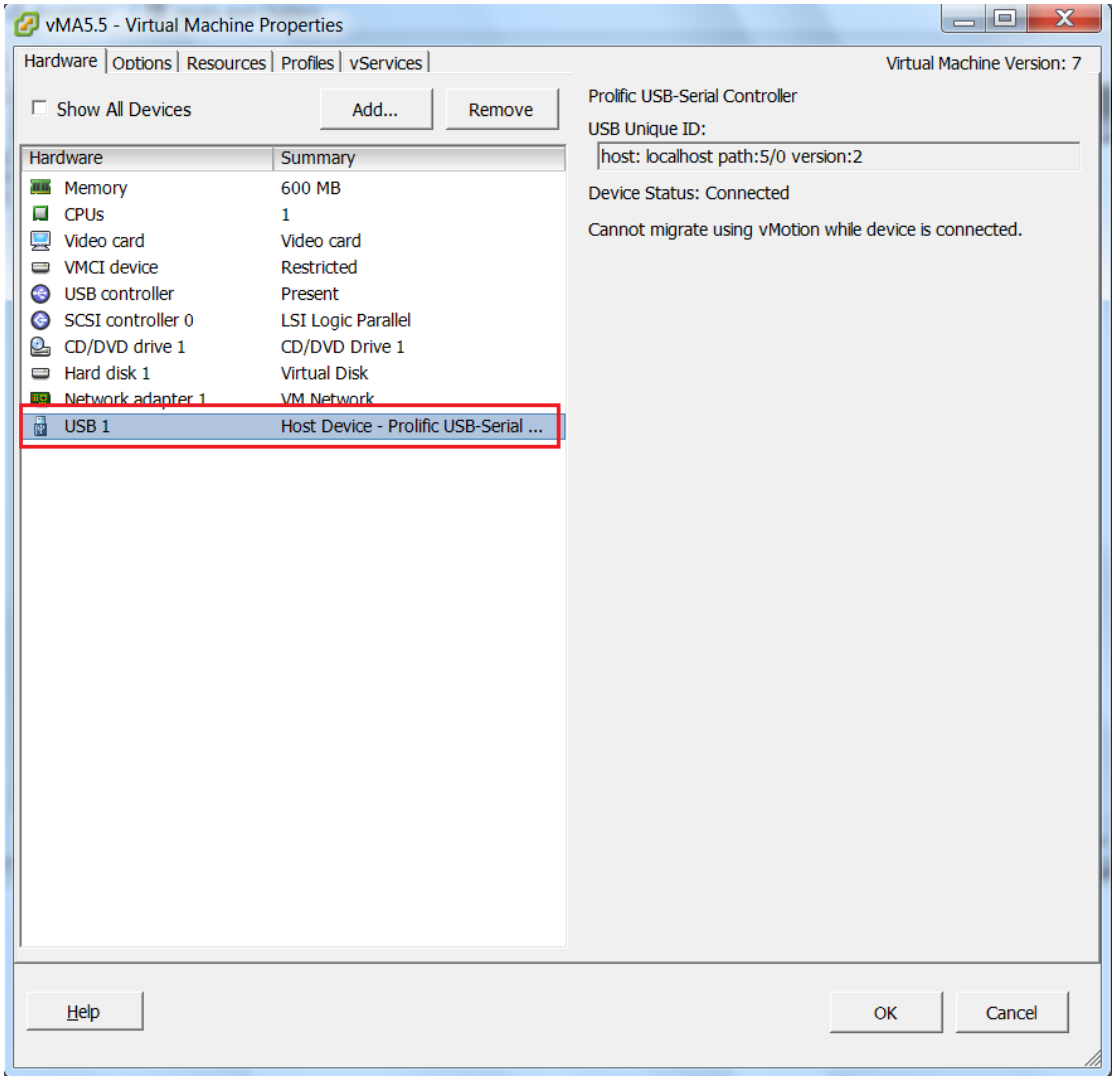
- Choose the critical guest OS that Software is installed, Add the USB controller by the "**Summary**"->"**Edit setting**"->"**add**"->"**USB Controller**"



- Choose the critical guest OS that Software is installed, Add the USB device by the "**Summary**"->"**Edit setting**"->"**add**"->"**USB device**", Choose "**prolific USB-Serial Controller**", make sure the UPS is connected.

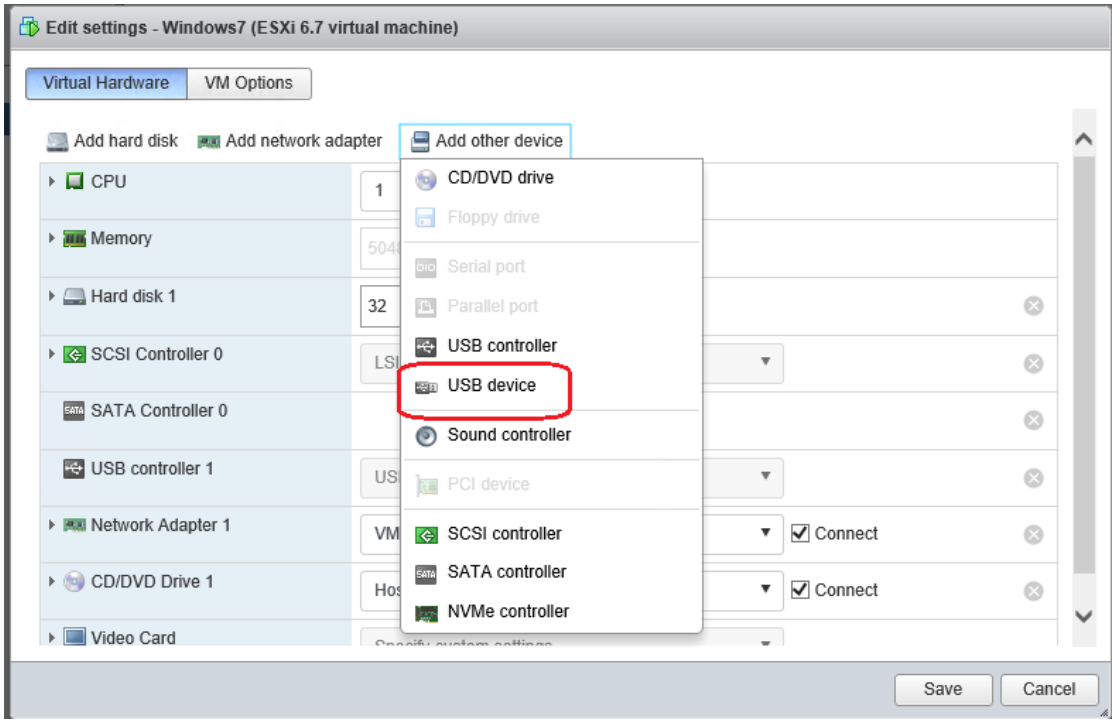


- The UPS can be added successfully as below image

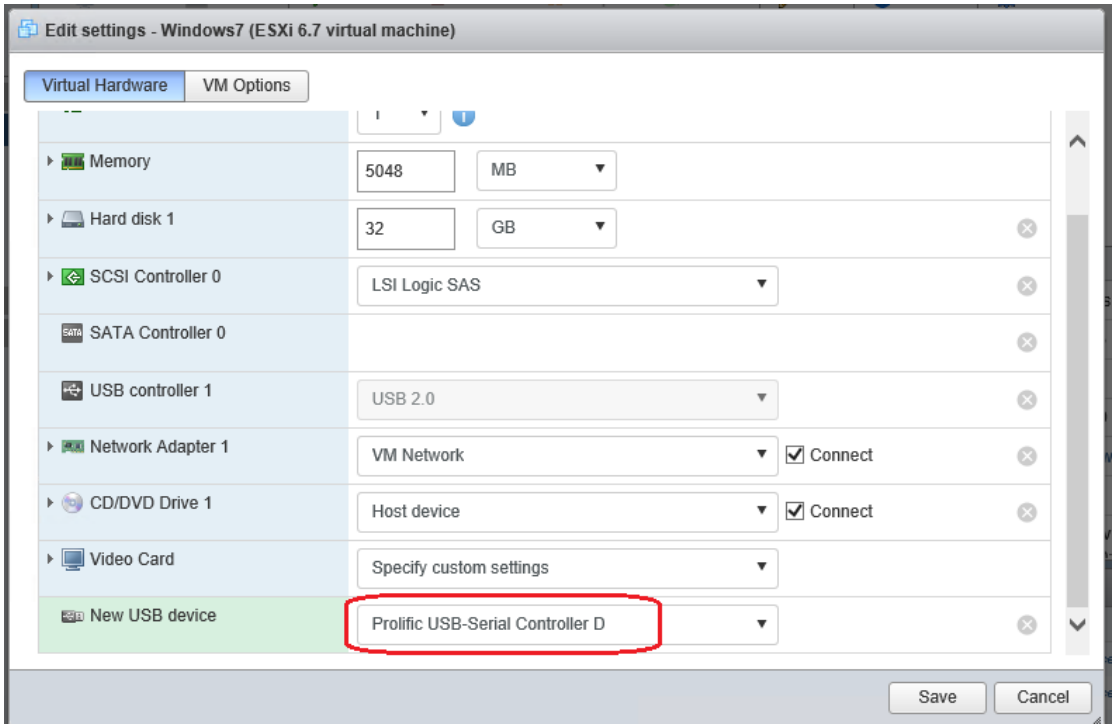


2.3.2 Later than ESXi 6.5:

- Choose the critical guest OS that Software is installed ,Add the USB device by the "**Summary**"->"**Edit settings**"->"**add other device**"->"**USB device**"



- The UPS USB-RS232 can be added successfully as below image



3 Configuring for Software

3.1 Software installation

Software can be installed on any of the OS, just like Windows, Linux, MACOSX, Solaris
For more simply, just give the windows and Linux samples.
Please check the Software user manual for more information.

3.1.1 Software installation on Windows OS

- Right click the “setup.exe”, choose “Run as administrator” to complete the installation.
- The Software agent will be running automatically when the Windows boots

3.1.2 Software installation on Linux OS

- Download the software (Software_setup_LinuxAMD64.tar.gz) from the Website or from the CD attached. Upload the software from Windows to the Linux using WinSCP tools.
- Extract the software, there are two files including LinuxAMD64 and InstallerData.
- Enter the LinuxAMD64 and then enter the following command to install the software:
  cd LinuxAMD64
  ./setup.bin (if the Linux is GUI Mode)
  ./setup_console.bin (if the Linux is CUI mode)
- Go to the installation path and enter the following command to start the Software agent manually:
  cd /opt/MonitorSoftware
  ./agent start
  Note：The Software agent will be running automatically when the Linux boots, you don’t need to enter the command for every time.

3.2 Software start

3.2.1 Software start on windows OS

- Software agent will be started automatically, you can right click the green icon choose “start monitor” to start the Software manager.

3.2.2 Software start on Linux OS

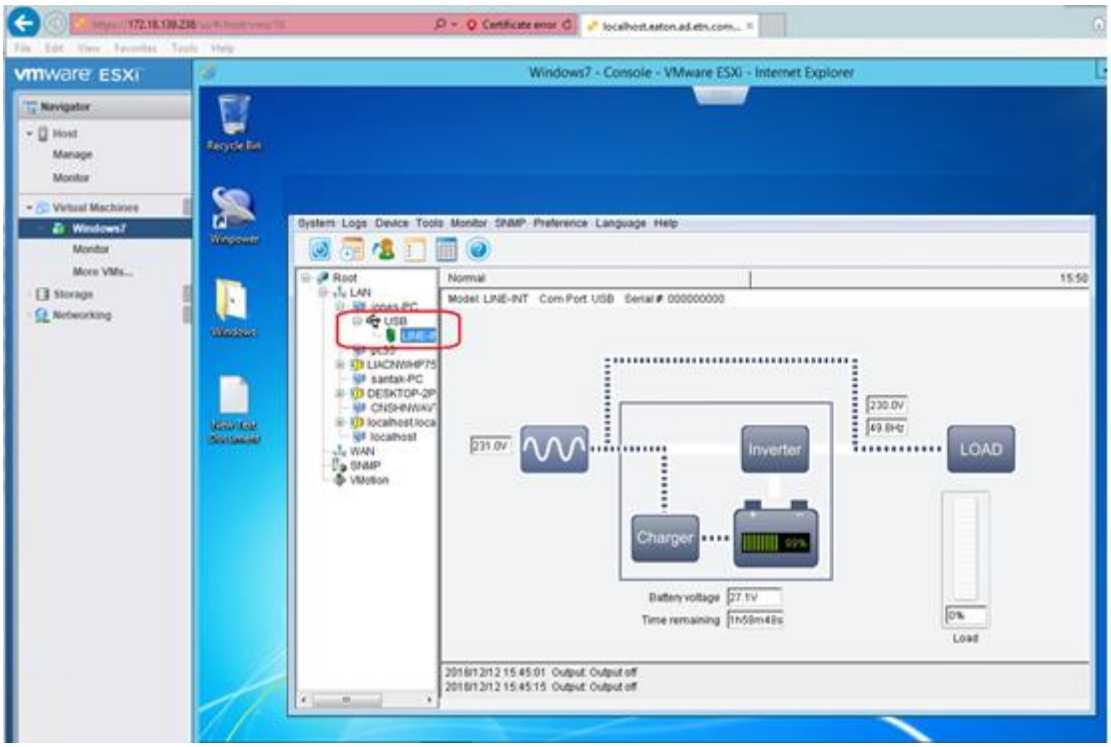
- Software agent will be start automatically, you can input the command "**./monitor**" under the "/opt/MonitorSoftware" to start the Software manager

3.3 Software communication

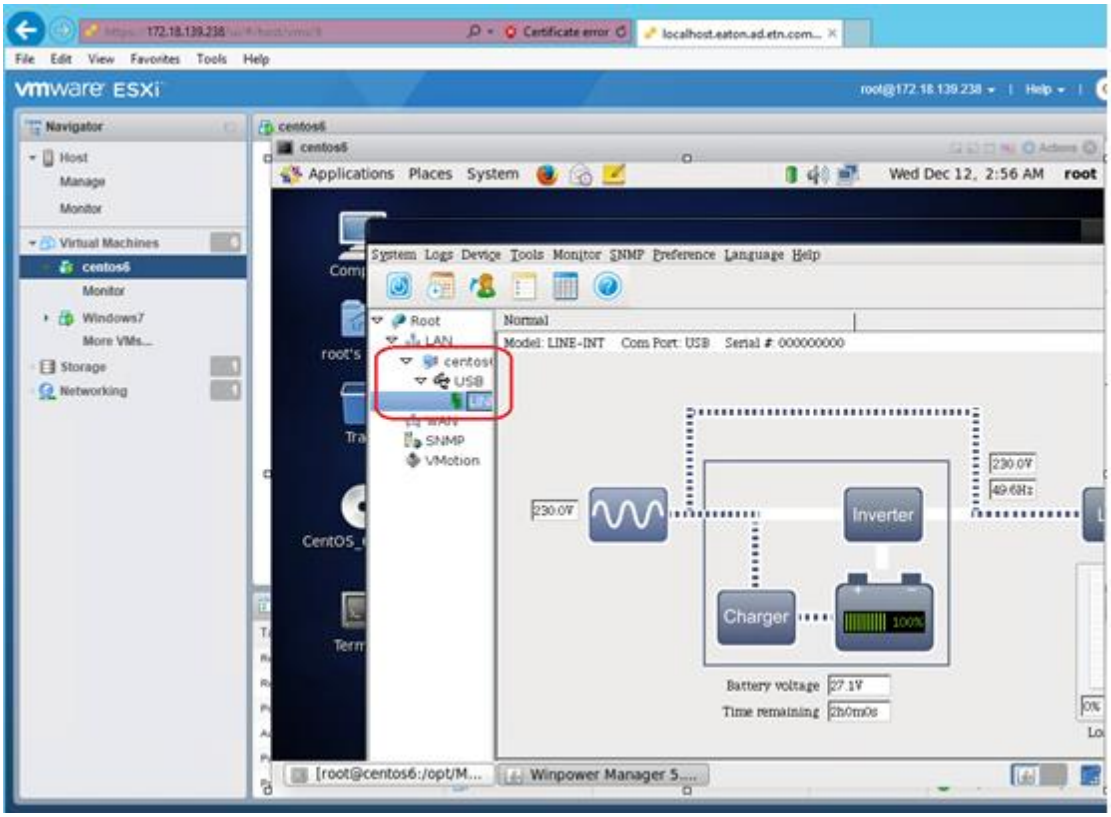
3.3.1 RS232 or USB

- If the Software communication with UPS via USB or RS232, just auto search it by "System" ->"Auto search device"

  Windows OS:

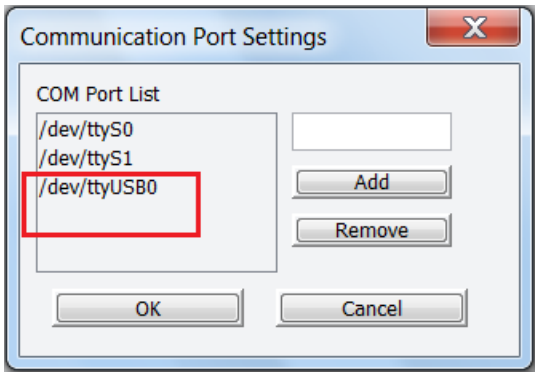


  Linux OS:



3.3.2 USB TO RS232

- If the Software communication with UPS via USB-RS232:
  On the Windows OS, you should install the USB-RS232 driver, then restart the system and auto search the device.
  On the Linux OS, you don't need to install the USB-RS232 driver, you should add the serial port name by "System" ->"Com port Setting", add the serial port name "/dev/ttyUSB0", then auto search the device



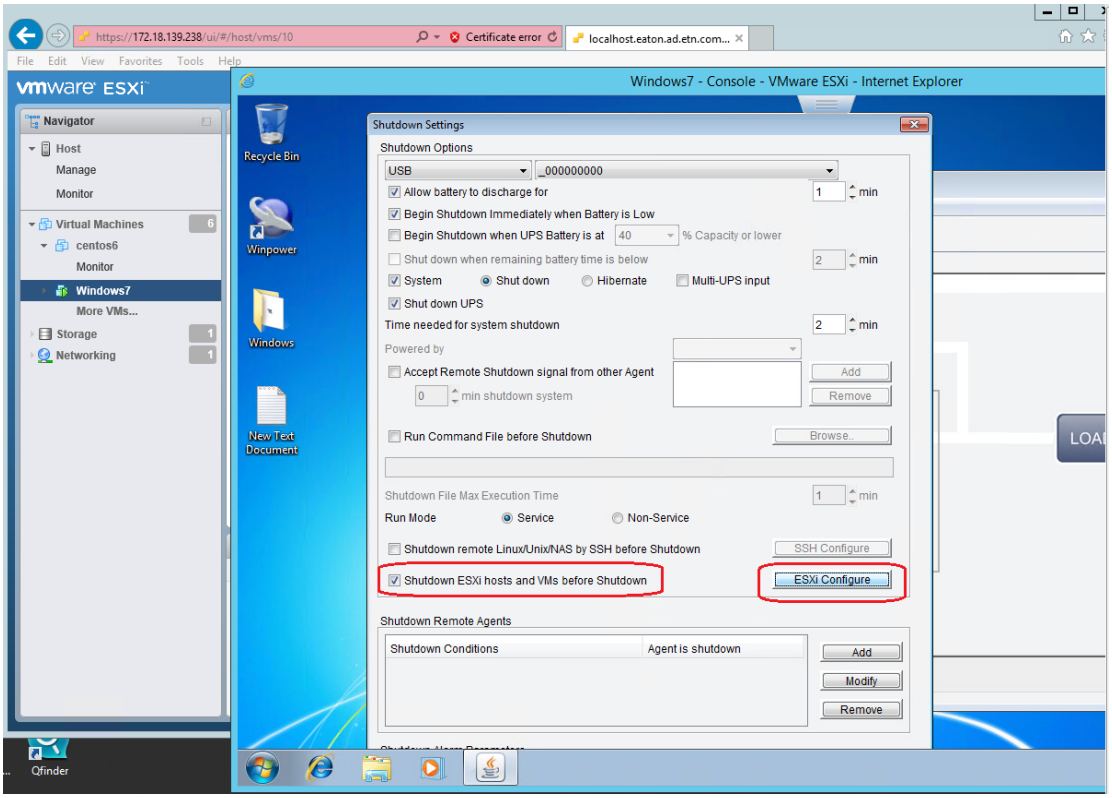
3.4 Set the shutdown condition

- Open Software manager, Click "Device" -> "Shutdown Parameter", Set the shutdown

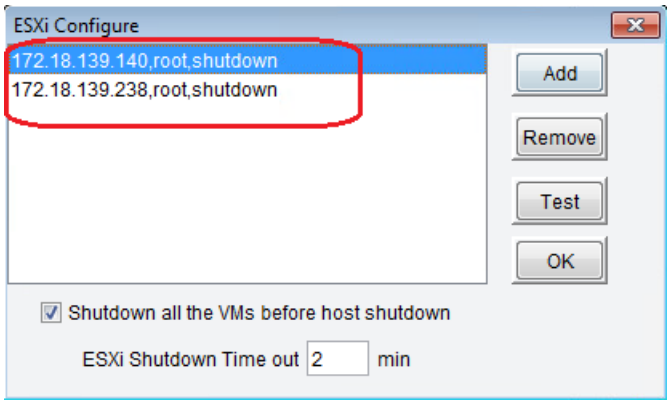
condition

3.5 Add the ESXi hosts

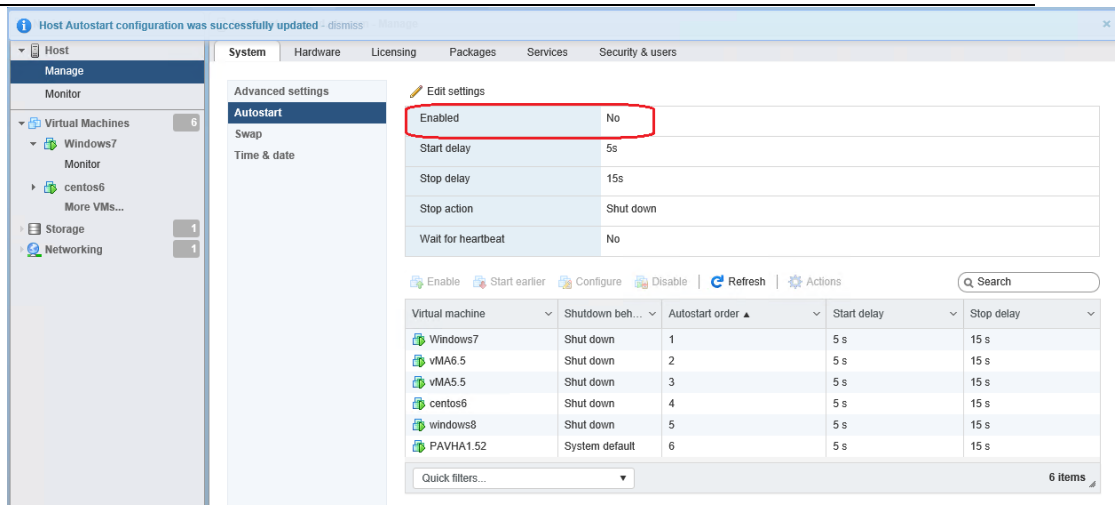
- Open Software manager, Click “Device” -> ”Shutdown Parameter”, choose the “Shutdown ESXi hosts and VMs before Shutdown”



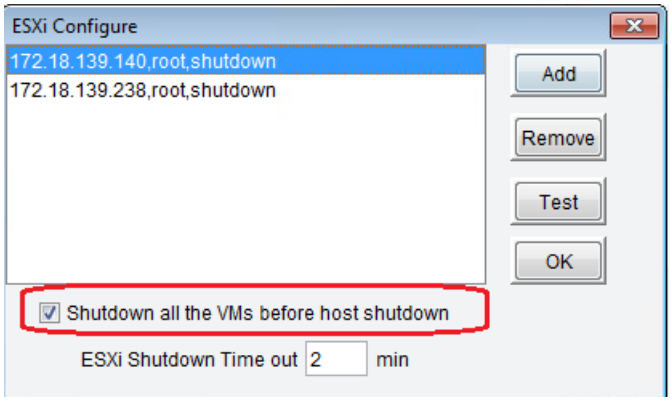
- Click “ESXi Configure”->”Add”, Enter the ESXi hosts IP, user name, password
  You can input multi-ESXi hosts.



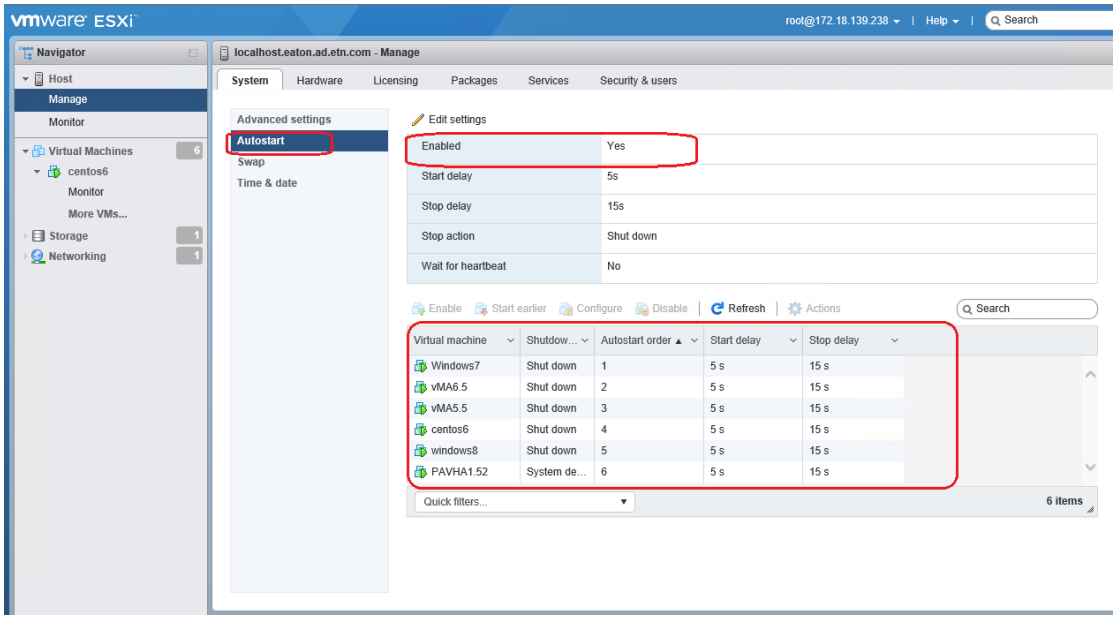
- If you have disabled the “Autostart” as below image:



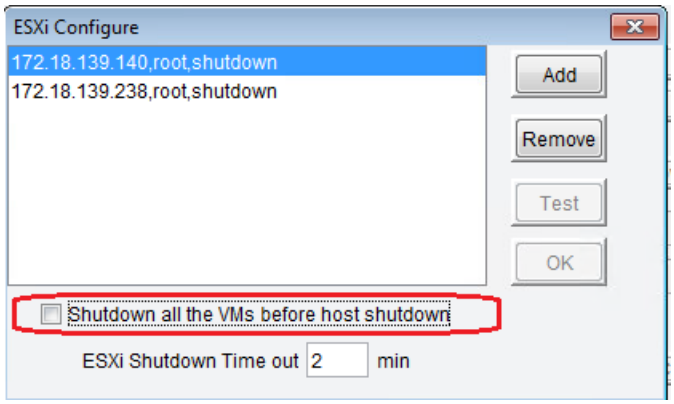
Please check the Software box “Shutdown all the VMs before host shutdown” , Software will shut down all the no-critical VMs firstly, then shutdown the critical VMs and hosts.



- If you have enable the “Autostart” as below image:



Please don’t check the box “Shutdown all the VMs before host shutdown”, so Software only shut down the hosts. The VMs will be shut down before host shutdown by the “Autostart” function.


ESXi Configure
172.18.139.140,root,shutdown
172.18.139.238,root,shutdown
Add
Remove
Test
OK
Shutdown all the VMs before host shutdown
ESXi Shutdown Time out
2
min