

IT Technology

Special Subject 2



Lillebaelt Academy of
Professional Higher Education

Author:

Milan Kristof Vince:

mila1025@edu.eal.dk

October, 11, 2017

The following guide shows how to create telnet session between the vMX VCP-s on the ESXi and the physical machine.

Step 1

At navigation select the ESXi server and go to Configuration tab

Select Security Profile and click Properties

localhost.localdomain VMware ESXi, 6.0.0, 3620759 | Evaluation (34 days remaining)

Getting Started Summary Virtual Machines Resource Allocation Performance Configuration Users Events Permissions

Hardware

- Health Status
- Processors
- Memory
- Storage
- Networking
- Storage Adapters
- Network Adapters
- Advanced Settings
- Power Management

Software

- Licensed Features
- Time Configuration
- DNS and Routing
- Authentication Services
- Virtual Machine Startup/Shutdown
- Virtual Machine Swapfile Location
- Security Profile
- Host Cache Configuration
- System Resource Reservation
- Agent VM Settings
- Advanced Settings

Security Profile

Services

- SNMP Server
- PC/SC Smart Card Daemon
- Load-Based Teaming Daemon
- ESXi Shell
- X.Org Server
- VMware vCenter Agent
- NTP Daemon
- Active Directory Service
- VProbe Daemon
- SSH
- Syslog Server
- Direct Console UI
- CIM Server

Firewall

Incoming Connections

Service	Port	Protocol	Access
Virtual SAN Clustering Service	12345,23451,12321	(UDP)	All
CIM Server	5988	(TCP)	All
DNS Client	53	(UDP)	All
DHCPv6	546	(TCP,UDP)	All
SNMP Server	161	(UDP)	All
vMotion	8000	(TCP)	All
DVSSync	8301,8302	(UDP)	All
SSH Server	22	(TCP)	All
CIM SLP	427	(UDP,TCP)	All
vSphere Web Client	902,443	(TCP)	All

Select the **VM serial port connected over network** box and click **OK**.

Firewall Properties

Remote Access

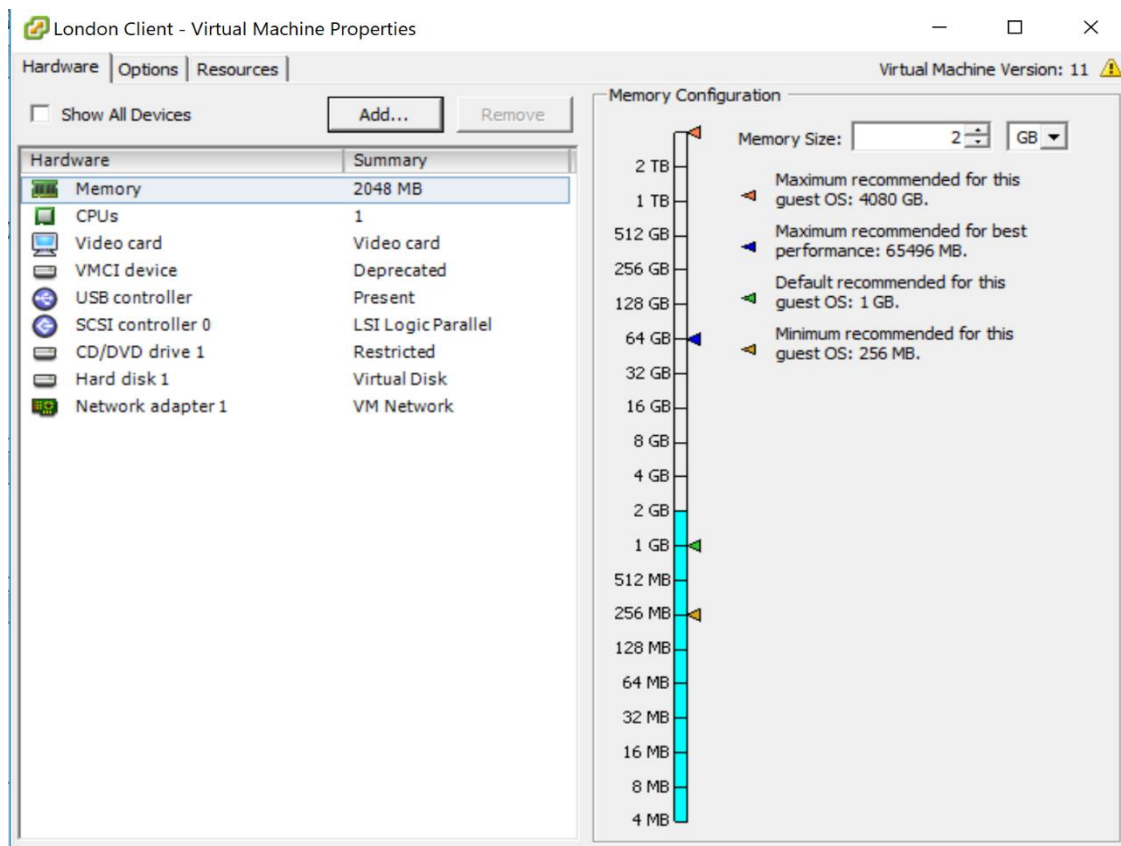
By default, remote clients are prevented from accessing services on this host, and local clients are prevented from accessing services on remote hosts.

Select a check box to provide access to a service or client. Daemons will start automatically when their ports are opened and stop when all of their ports are closed, or as configured.

	Label	Incoming Ports	Outgoing Ports	Protocols	Daemon
<input type="checkbox"/>	vprobeServer	57007		TCP	Stopped
<input checked="" type="checkbox"/>	HBR		31031,44046	TCP	N/A
<input checked="" type="checkbox"/>	Virtual SAN Transport	2233	2233	TCP	N/A
<input checked="" type="checkbox"/>	Fault Tolerance	8100,8200,8300	80,8100,8200,8300	TCP,UDP	N/A
<input type="checkbox"/>	syslog		514,1514	UDP,TCP	N/A
<input checked="" type="checkbox"/>	VMware vCenterAgent		902	UDP	Stopped
<input type="checkbox"/>	IKED	500	500	UDP	N/A
<input type="checkbox"/>	vsanhealth-multicasttest	5001	5001	UDP	N/A
<input checked="" type="checkbox"/>	VM serial port connected over net...	23,1024-65535	0-65535	TCP	N/A
<input type="checkbox"/>	httpClient		80,443	TCP	N/A

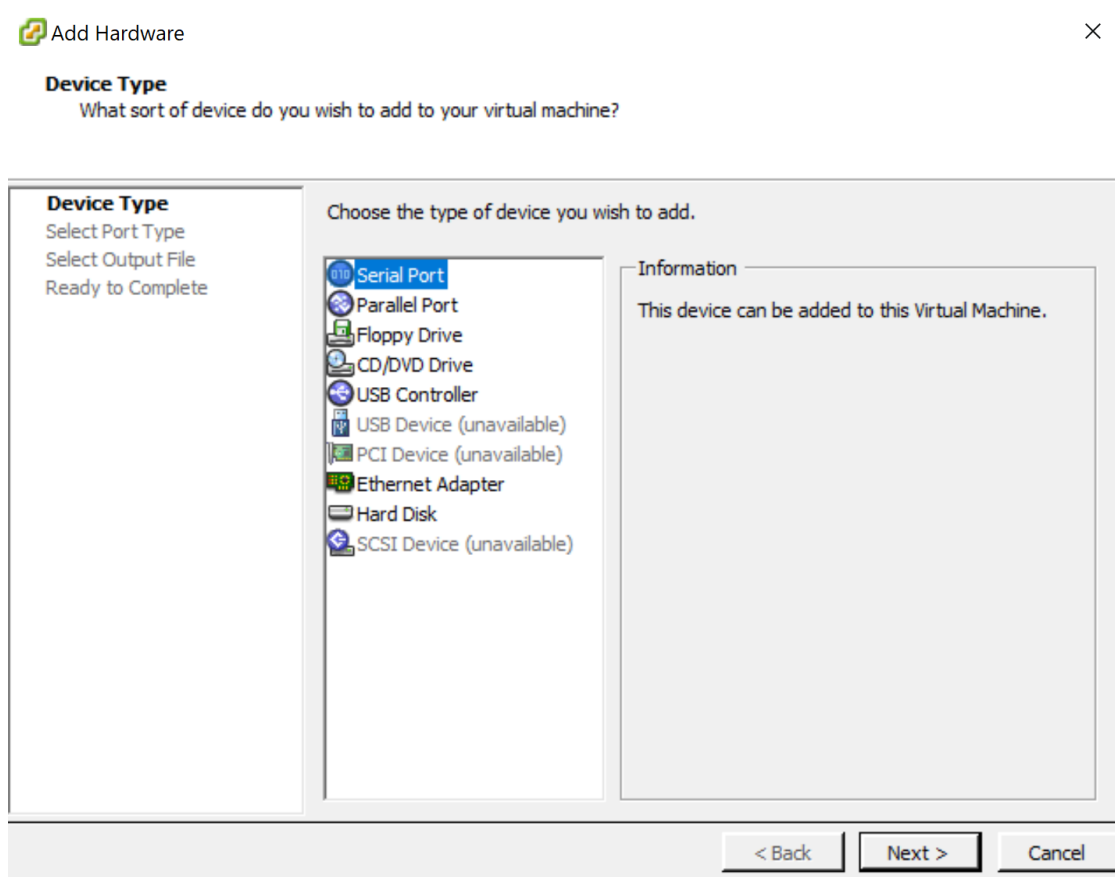
Step 2

At the Virtual machine click Edit Settings



Click Add

Select Serial Port



Select Connect via Network

The screenshot shows the 'Add Hardware' dialog box with the 'Serial Port Type' step selected. The title bar says 'Add Hardware' with a close button. The main heading is 'Serial Port Type' with the subtitle 'What media should this virtual serial port access?'. On the left, a sidebar shows 'Device Type' (selected), 'Select Port Type' (current step), 'Select Network Backing', and 'Ready to Complete'. The main area has the instruction 'Select the type of media you would like the virtual serial port to access.' and a section titled 'Serial Port Output' containing four radio button options: 'Use physical serial port on the host', 'Output to file', 'Connect to named pipe', and 'Connect via Network' (which is selected). At the bottom are '< Back', 'Next >', and 'Cancel' buttons.

Add Hardware

Serial Port Type
What media should this virtual serial port access?

Device Type
Select Port Type
Select Network Backing
Ready to Complete

Select the type of media you would like the virtual serial port to access.

Serial Port Output

- ☐ Use physical serial port on the host
- ☐ Output to file
- ☐ Connect to named pipe
- ☒ Connect via Network

< Back Next > Cancel

Then click on Server and type at Port URI: `telnet://:port-number` ([telnet://8601](#) for example)

The screenshot shows the 'Add Hardware' dialog box with the 'Network Serial Port Settings' step selected. The title bar says 'Add Hardware' with a close button. The main heading is 'Network Serial Port Settings' with the subtitle 'How should this serial port connect via network?'. On the left, a sidebar shows 'Device Type', 'Select Port Type', 'Select Network Backing' (current step), and 'Ready to Complete'. The main area has the instruction 'How should this serial port connect via network?' and three sections: 'Network Backing' with 'Server (VM listens for connection)' selected and 'Client (VM initiates connection)' unselected; 'Port URI' with a text box containing 'telnet://8601'; and 'Use Virtual Serial Port Concentrator' unselected with an empty 'vSPC URI' text box below it. The 'Device Status' section has 'Connect at power on' checked. The 'I/O Mode' section has 'Yield CPU on poll' checked, with a note: 'Allow the guest operating system to use this serial port in polled mode rather than in interrupt mode.' At the bottom are '< Back', 'Next >', and 'Cancel' buttons.

Add Hardware

Network Serial Port Settings
How should this serial port connect via network?

Device Type
Select Port Type
Select Network Backing
Ready to Complete

How should this serial port connect via network?

Network Backing

- ☒ Server (VM listens for connection)
- ☐ Client (VM initiates connection)

Port URI:

☐ Use Virtual Serial Port Concentrator

vSPC URI:

Device Status

- ☒ Connect at power on

I/O Mode

- ☒ Yield CPU on poll
Allow the guest operating system to use this serial port in polled mode rather than in interrupt mode.

< Back Next > Cancel

Click on Finish

Start the Virtual Machine

Open Command Prompt on your physical machine and type: telnet *ip-address port-number*
(<telnet://8601>)

Then you should be able to connect to your VCP!