

VIRTUAL SWITCH

Dashboard WELCOME TO SERVER MANAGER

Local Server
All Servers
AD DS
DNS
File and Storage Services
Hyper-V

Hyper-V Manager
WIN-6NQ842FMB9T

File Action View Help

Virtual Machines

Name	State	CPU Usage	Assigned Memory
No virtual machines were found on this server.			

Snapshots

No virtual machine selected.

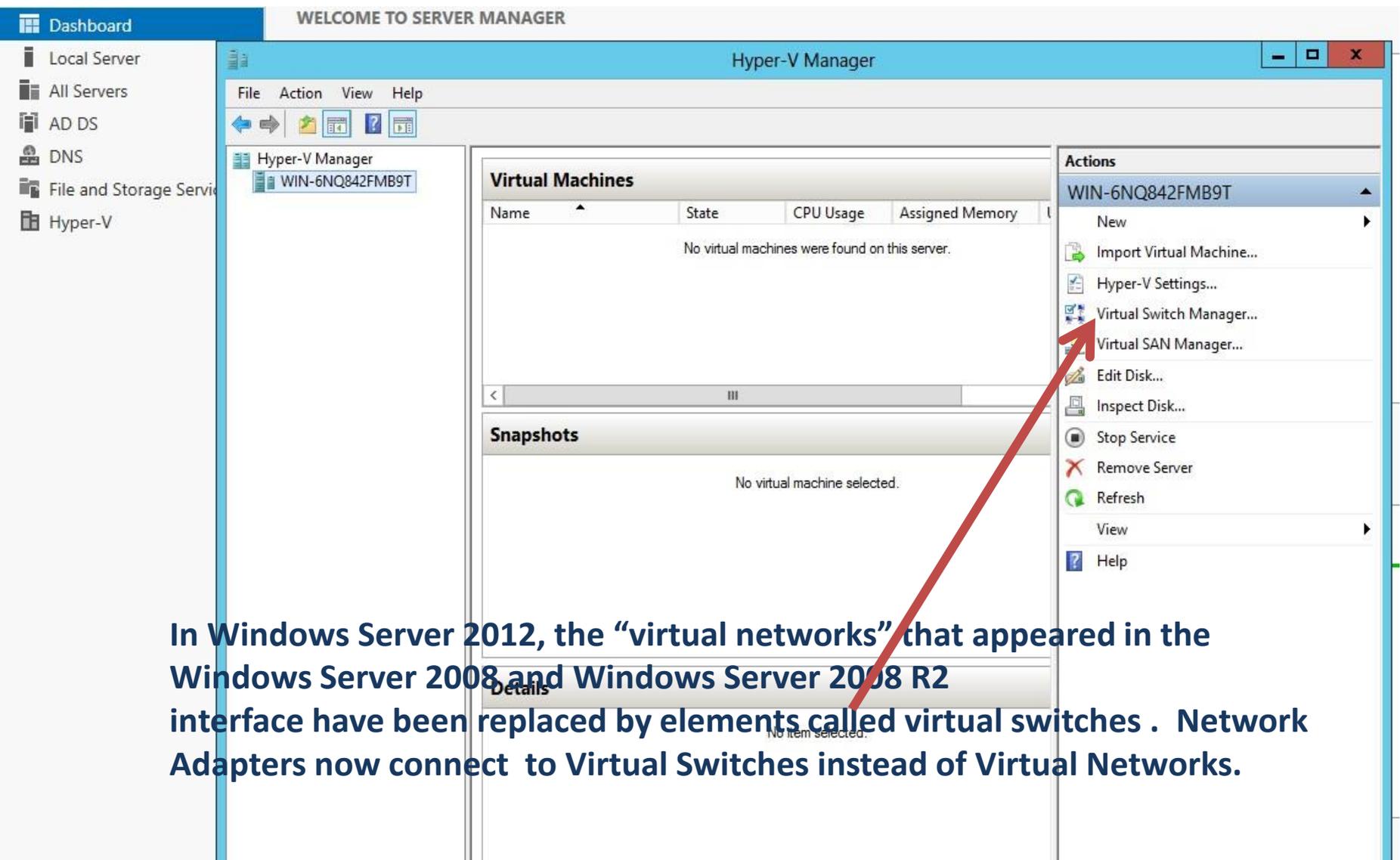
Actions

WIN-6NQ842FMB9T

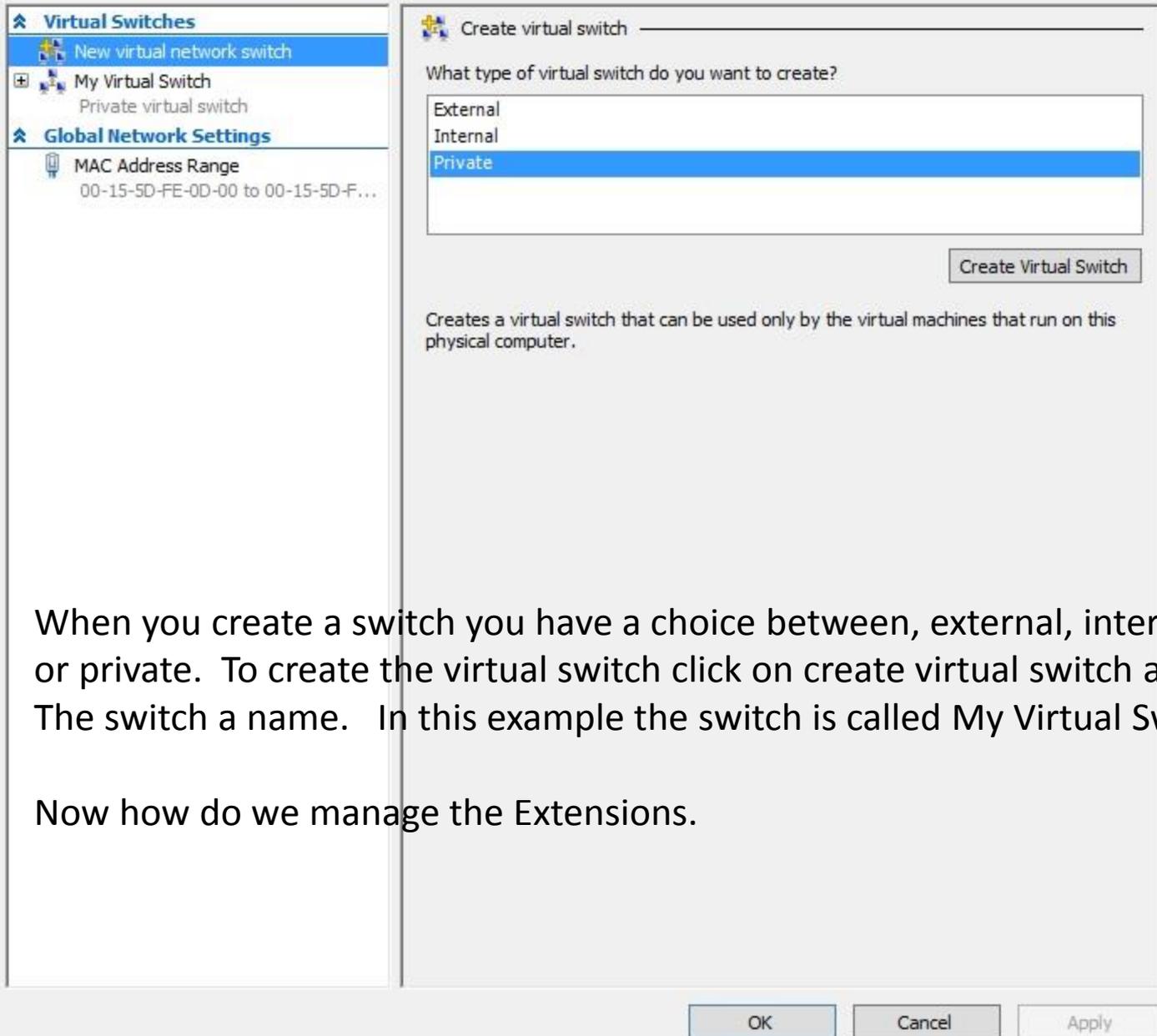
- New
- Import Virtual Machine...
- Hyper-V Settings...
- Virtual Switch Manager...
- Virtual SAN Manager...
- Edit Disk...
- Inspect Disk...
- Stop Service
- Remove Server
- Refresh
- View
- Help

Details

No item selected.



In Windows Server 2012, the “virtual networks” that appeared in the Windows Server 2008 and Windows Server 2008 R2 interface have been replaced by elements called virtual switches . Network Adapters now connect to Virtual Switches instead of Virtual Networks.



When you create a switch you have a choice between, external, internal or private. To create the virtual switch click on create virtual switch and give The switch a name. In this example the switch is called My Virtual Switch.

Now how do we manage the Extensions.

Virtual Switches

- New virtual network switch
- My Virtual Switch**
Private virtual switch

Global Network Settings

- MAC Address Range
00-15-5D-FE-0D-00 to 00-15-5D-F...

During switch creation you have the choice of enabling single-root I/O virtualization.

New feature in Server 2012. Enabling this feature reduces input and output overhead, which in turn will increase performance to the point where the VMs performance is almost as good as the physical machine. In addition to this the processing overhead of the host is reduced.

Virtual Switch Properties

Name: My Virtual Switch

Notes:

Connection type

What do you want to connect this virtual switch to?

External network:
Microsoft Network Adapter Multiplexor Driver

Allow management operating system to share this network adapter

Enable single-root I/O virtualization (SR-IOV)

Internal network

Private network

VLAN ID

Enable virtual LAN identification for management operating system

The VLAN identifier specifies the virtual LAN that the management operating system will use for all network communications through this network adapter. This setting does not affect virtual machine networking.

2

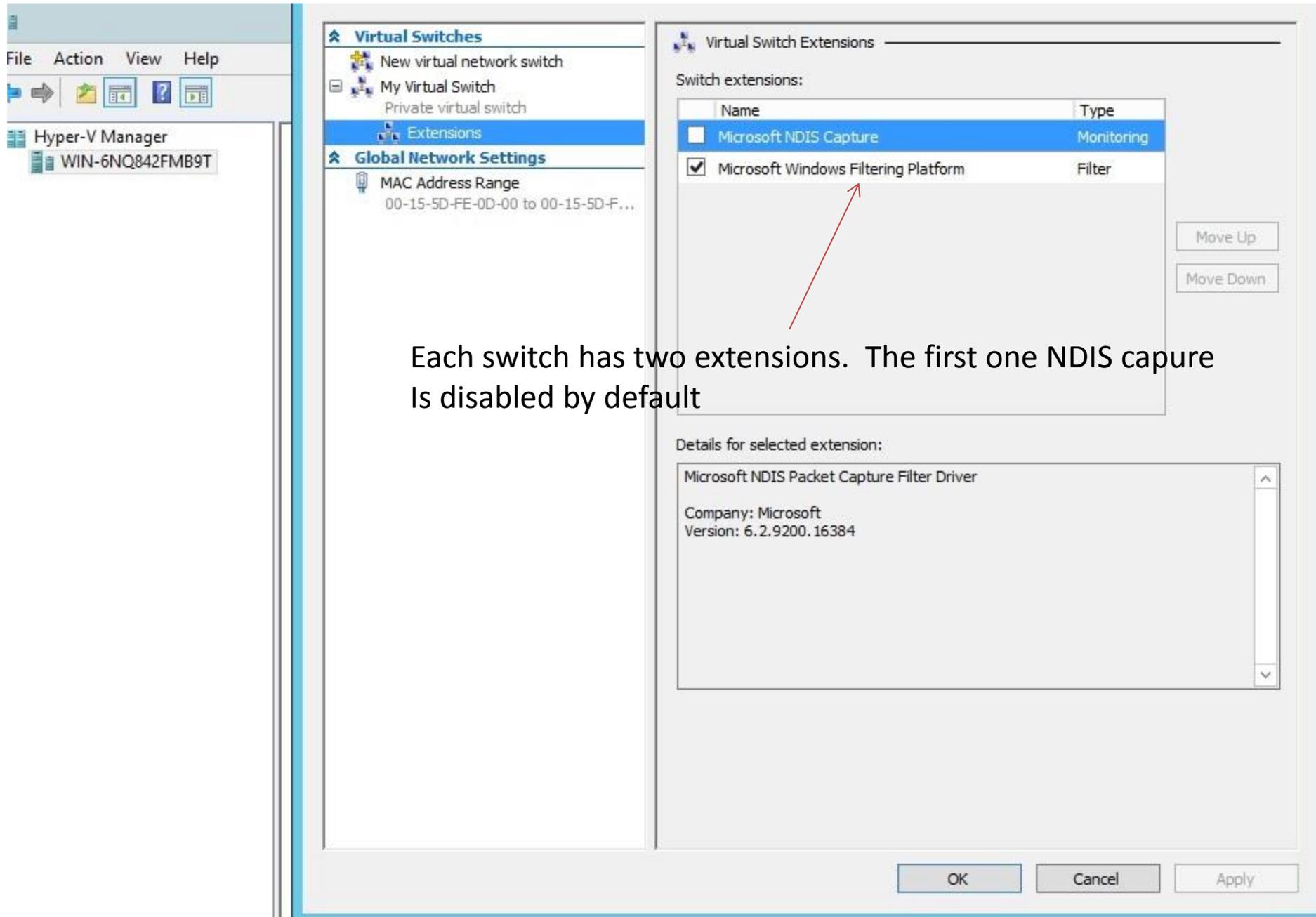
Remove

i SR-IOV can only be configured when the virtual switch is created. An external virtual switch with SR-IOV enabled cannot be converted to an internal or private switch.

OK

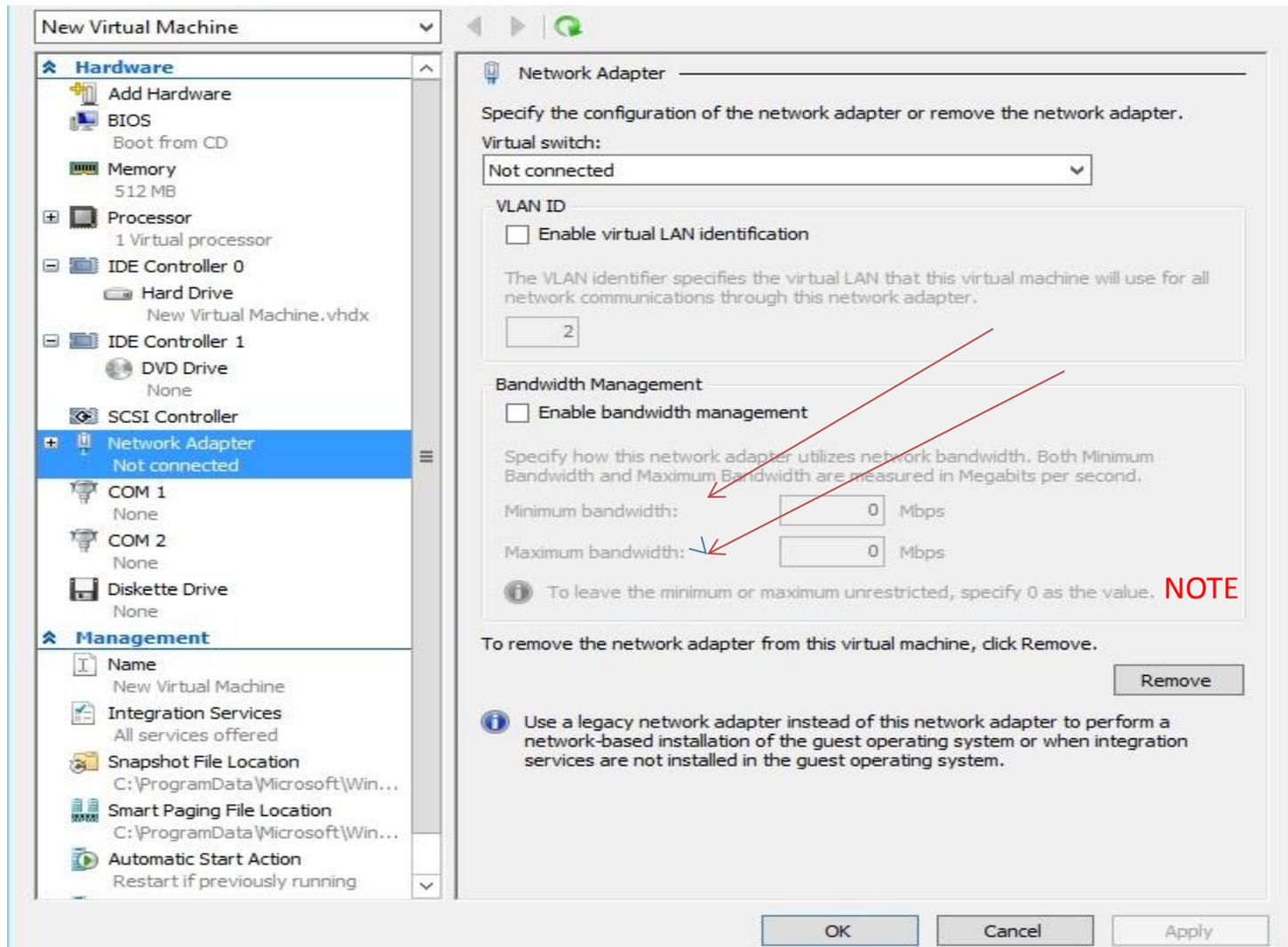
Cancel

Apply

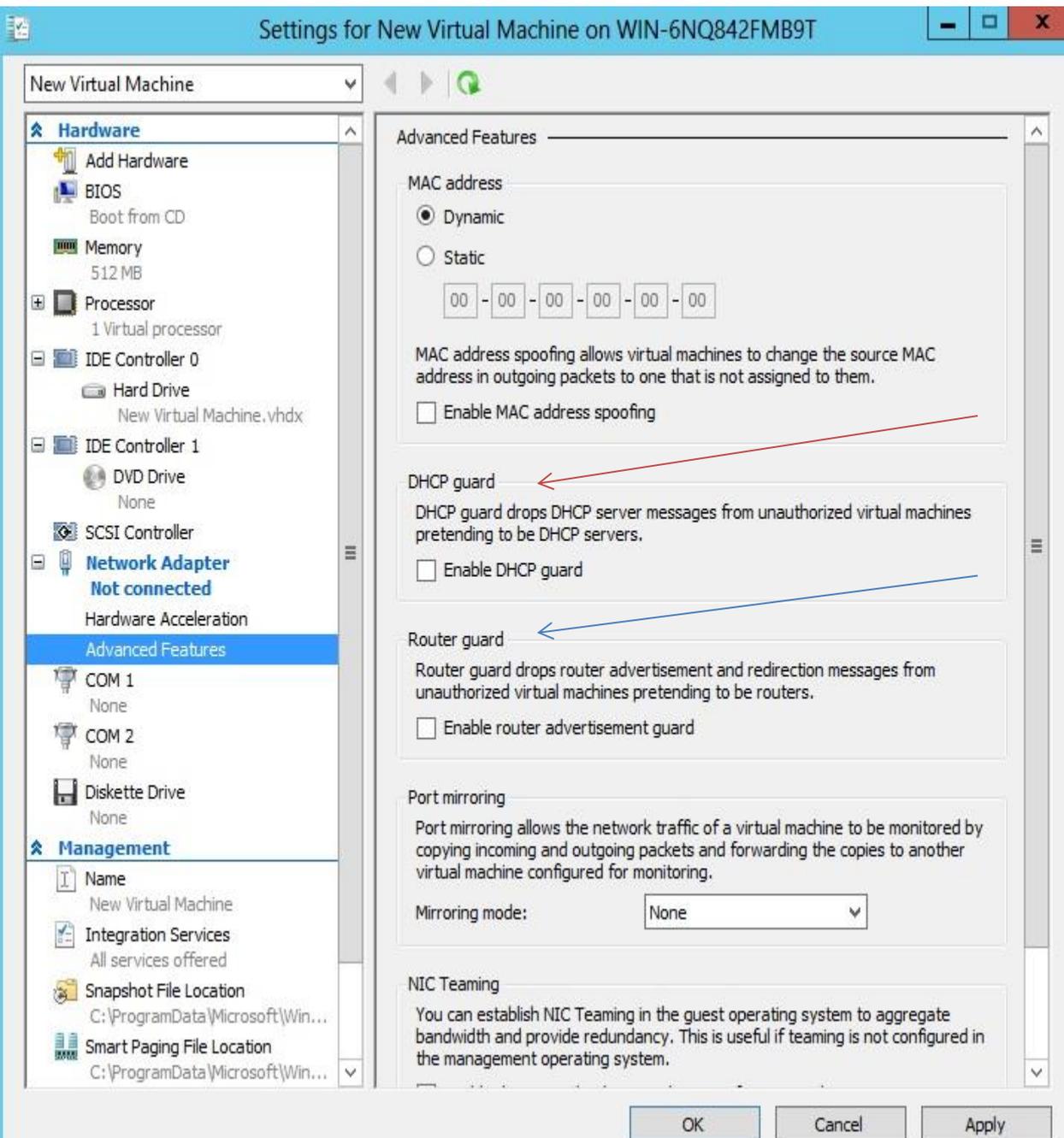


Each switch has two extensions. The first one NDIS capture is disabled by default

BANDWIDTH – another new feature of Server 2012 allows you set the minimum Maximum bandwidth (Mbps) for the virtual network adapter. This can be Managed in the settings of the VM



ADVANCED FEATURES FOR VIRTUAL NETWORK ADAPTERS



Two Features: DHCP Guard And Router Guard.