



41891, 42891 – CLOUD COMPUTING

LAB 4: vSWITCHES

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Outline:



1

RAM optimisation in VMware

2

vSwitches

3

Network design - Lab 4 tasks

1. RAM optimisation in VMware

Optimise RAM for 3 VMs in VMware:

- ESXi01: From 4GB down to 2GB
- ESXi02: From 4GB down to 2GB
- vcva: From 6GB down to 4GB.

1. ESXi01 for example

The screenshot displays the VMware Workstation interface for editing the settings of a virtual machine named **vclassICM55-ESXi01**. The left sidebar shows the **Devices** section with a list of hardware components. The main window shows the **Virtual Machine Settings** dialog, currently on the **Hardware** tab. The **Memory** device is selected in the hardware list. On the right, the **Memory** configuration panel allows setting the memory size for the virtual machine. The **OK** button is located at the bottom right of the settings dialog.

1 Memory 4 GB

Device	Summary
Memory	4 GB
Processors	2
Hard Disk (SCSI)	18 GB
CD/DVD (IDE)	Auto detect
Network Adapter	NAT
Network Adapter 2	NAT
Network Adapter 3	NAT
Network Adapter 4	NAT
USB Controller	Present
Display	Auto detect

2 2 GB

Memory for this virtual machine: 2048 MB

64 GB -
32 GB -
16 GB -
8 GB -
4 GB -
2 GB -
1 GB -
512 MB -
256 MB -
128 MB -
64 MB -
32 MB -
16 MB -
8 MB -
4 MB -

Maximum recommended memory (Memory swapping may occur beyond this size.) 6.2 GB

Recommended memory 256 MB

Guest OS recommended minimum 32 MB

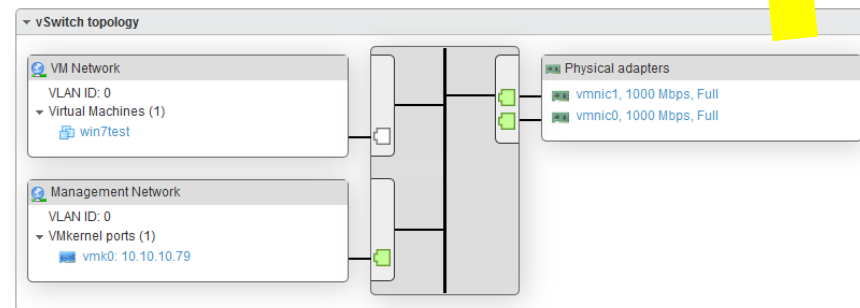
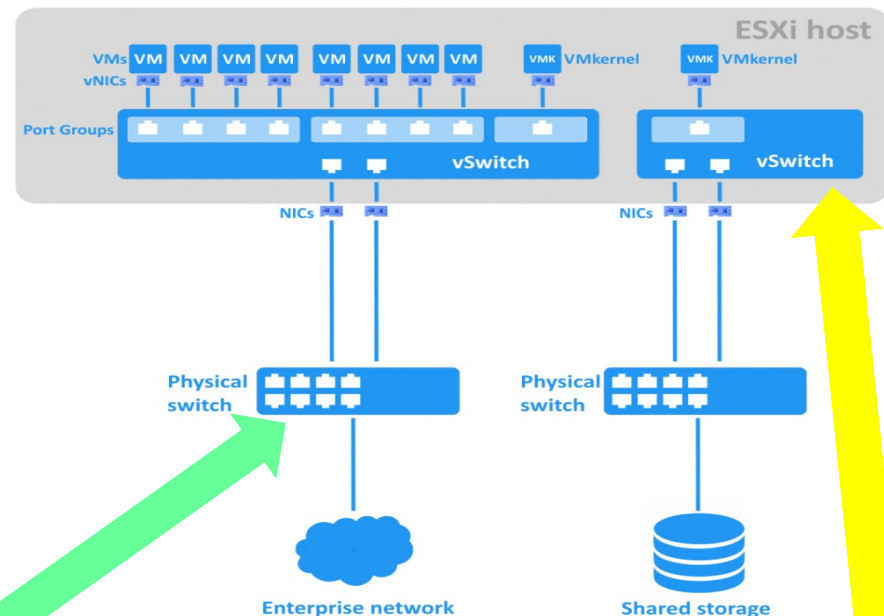
3 OK

2. What is vSwitches? [1]

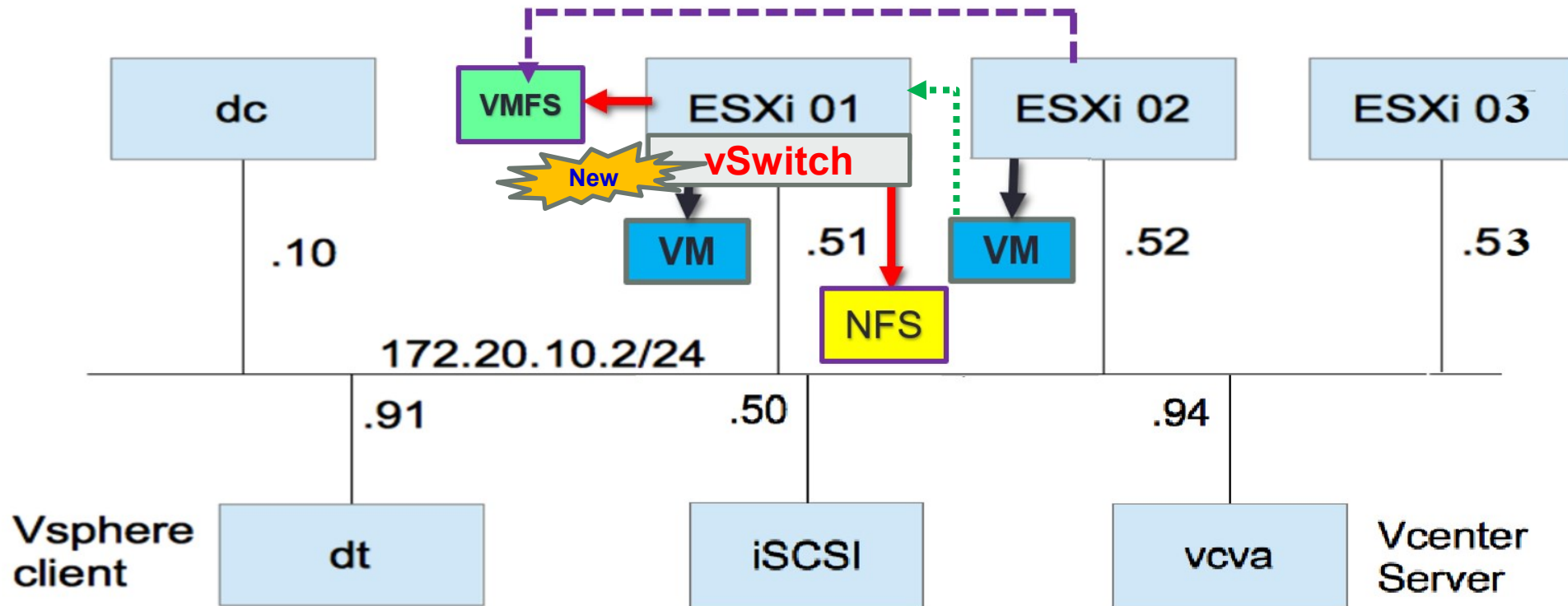
VMware vSwitch is a software program ensures the same functions as a regular switch that connects devices on a computer network by using packet switching to receive, process, and forward data to the destination device.



[1] <https://www.nakivo.com/blog/what-is-vmware-vswitch/>



3. Network design for Lab 4 (Week 5)



3. Main tasks for Lab 4

- ✓ **Task 1:** Clone VM (twins)
- ✓ **Task 2:** Create Port Group under a vSwitch

THANK YOU!

Question & Answer