41891, 42891 – CLOUD COMPUTING LAB 1: VMWARE ESXI, BUID VMS

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Outline:

1 (Some attentions for the lab

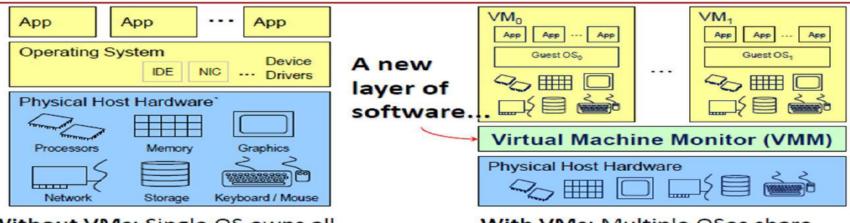
2 (Virtualization and Hypervisor

3 (The overview of Lab 1

2. Virtualization [1]

System Virtual Machines (VMs)

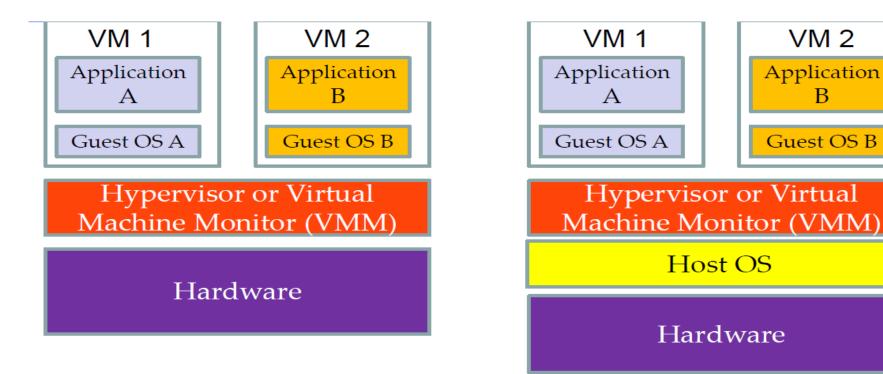




Without VMs: Single OS owns all hardware resources With VMs: Multiple OSes share hardware resources

Virtualization is a conversion process that translates unique IT hardware into Emulated and Standardized software-based copies.

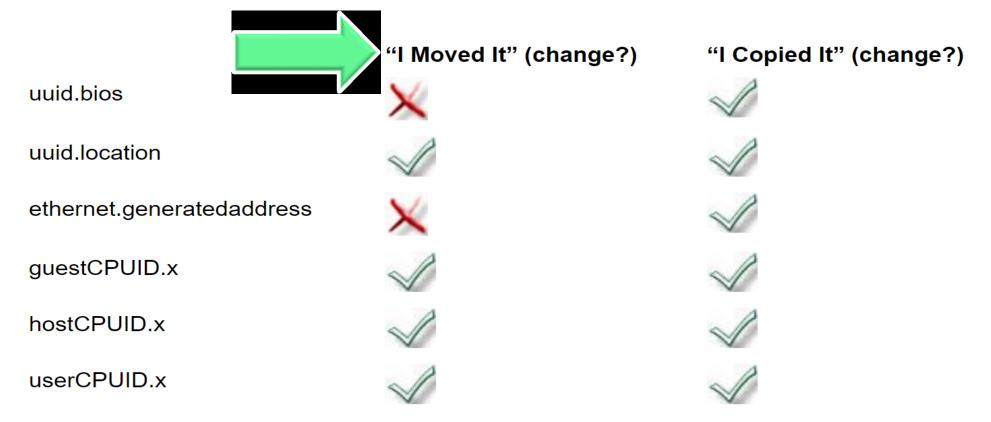
2. Virtualisation and Hypervisor [1]



Hardware-based Virtualization

Operating System-based Virtualization

2. Vmware: moved or copied using for your laptop



[...] https://techhead.co/vmware-esx-i-moved-it-or-i-copied-it-whats-the-difference/

2. What is VMware [2]

- VMware is a virtualization and cloud computing software provider based in Palo Alto, California
- VMware products include virtualization, networking and security management tools, software-defined data center software and storage software



2. What is ESXi [3]

- VMware ESXi Server is computer virtualization software developed by Vmware
- ESXi can be used to facilitate centralized management for enterprise desktops and data center applications
 - [3] https://www.vmware.com/content/

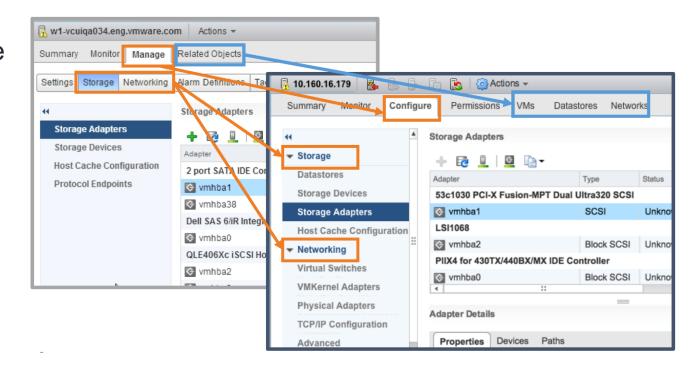


2. What is DC [3]

- The Domain Controller provide DNS (required) services to domain members.
- The Domain Controller will act as a router and provide Internet access, so it also needs a path to the physical network, e.g. via NAT.

2. What is Vsphere Client dt [4]

 vSphere Desktop can be used only to host a desktop virtualization environment or desktop management and monitoring tools.



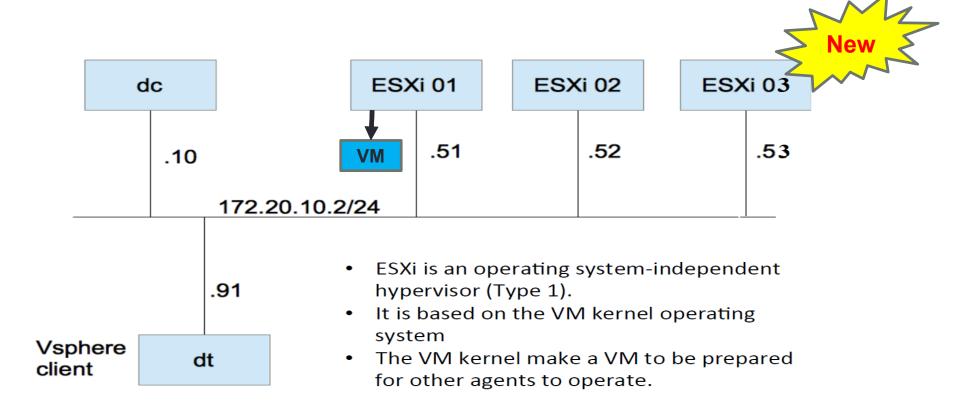
3. Over view of Lab 1

- ✓ Task 1: Clone all VMs (linked snapshot) slow but sure
- ✓ **Task 2:** Power on dc and dt VMs
- ✓ Task 3: Power on and Ip configure for ESXi-01 and ESXi-02
- ✓ Task 4: Vsphere client connect to ESXi-01, 02
- ✓ Task 5: Create new VMs on ESXi via Vsphere
- ✓ Task 6: Create a new ESXi-03 (as a VM)

Note: do not rush, you can do task 5 and 6 in the lab 2

3. Network design for lab 1 (Week 2)

Week 2: VMware ESXi, Build VMs



THANK YOU!

Question & Answer