

 Generalitat de Catalunya Departament d'Educació INS Daniel Blaxart	Mòdul 1: Sistemes Informàtics	Curs 2024-2025
Departament d' Informàtica Grup DAW1	Test Activitat 1 (BETA)	Data 2 Octubre 2024

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Here there are questions about the video from Chapter 3 / T2
You must write a cross in front of the letter of the correct answers.

QUESTIONS:

01. Which is the main reason of choosing "Dynamically allocated" on storage of the virtual hard disk of the VM?

- A. Increases performance of the VM
- ☒ B. Doesn't waste space of the host storage disk
- C. It's the "by default" option when creating the VM

02. The VM resources like RAM-storage disk-processors can be changed after the VM is created

- ☒ A. True
- B. False

03. Which is the maximum number of CPU processors assigned to VMs that we mustn't exceed?

- A. 1, which is the by default option when creating the VM
- B. 4
- ☒ C. Half of the ones available

04. What is for the "GRUB boot loader"?

- ☒ A. It is offered when installing Kali Linux for getting best performance of the VM guest
- B. It is offered only if you have more than 2 processors
- C. It is offered if you have one already existing OS in the primary drive

05. What happens if we pause a VM?

- ☒ A. Pause execution of the VM and use less resources in case you want to do something more at the moment. Clicking again "pause" you're resuming the VM
- B. We can start or close a VM, but the "pause" option doesn't exist

06. Can a VM be installed in whatever computer?

- A. No
- ☒ B. Yes, but for being workable it needs to have a minimum of hardware capacity for sharing with the VM guests (CPU, RAM, storage, processors)
- C. Yes, always

07. What is the name of the computer where the VMs are stored?

- ☒ A. Host
- B. VirtualBox

08. What is the main characteristic of a VM?

- A. The size of RAM allocated to it
- B. The size of Storage allocated to it
- ☒ C. The OS being implemented with that VM
- D. The number of processors associated to it

09. What of next are characteristics of a VM?

- ☒ A. The size of RAM allocated to it
- ☒ B. The size of Storage allocated to it
- ☒ C. The OS being implemented with that particular VM
- ☒ D. The number of processors associated to it

10. In which areas can VMs improve your IT knowledge?

- ☒ A. If you want to become a hacker
- ☒ B. If you want to learn a new OS
- ☒ C. If you want to learn what a VM is

11. What of next are part of the definition of "Virtual Machine"?

- ☒ A. A computer inside a computer
- ☒ B. An instance of the hypervisor that allows to virtualize a guest into your host

OK: 19
KO: 6

NO

12. What of next are part of the definition of "Hypervisor"?
- ☒ A. The software that allows create a guest VM into our host
 - B. The software that allows speed-up the speed of the CPU when we use virtualization
 - C. The check in the BIOS that must be enabled to allow virtualization to work in our host
13. What do you need to do on your host if you need to install a 64-bits VM?
- ☒ A. In the BIOS of the host, you must enable the hardware virtualization support for your CPU
 - B. In the BIOS of the guest, you must enable the hardware virtualization support for your CPU
 - C. In the BIOS of both, the host and guest, you must enable the hardware virtualization support for your CPU
14. What to download the most of times to get a new OS for a VM?
- ☒ A. .iso
 - B. .ova
 - C. .jar
15. What of next are terms related with the back-up of a VM?
- ☒ A. Clone
 - ☒ B. Snapshot
 - C. Network
16. In case you're hacking using VMs, for not compromising security ...
- ☒ A. Do not share clipboard between host-guest
 - B. Do not allow drag & drop between host-guest
 - C. Do not use snapshots
17. Which is the utility of the "Network adaptor" parameter in a VM?
- A. Allow to the VM connect with the host and/or the Internet
 - ☒ B. Allow to the VM connect with Internet
 - C. Allow to the VM to remain isolated for blocking attacks from hackers
18. Which of next are possible values for Network adaptor of a VM?
- ☒ A. Bridge adaptor
 - B. Remote
 - C. Internal Network
19. Which is the company that created and owns the Hypervisor VirtualBox?
- ☒ A. Oracle
 - B. Microsoft
 - C. Google
20. What of next are characteristic provided by the VirtualBox Extension Pack?
- A. Support for USB 2.0 and 3.0
 - ☒ B. Share clipboard host - guest
 - C. Share folder host - guest
21. Which is the rule to follow when assigning hardware resources -like RAM or storage- from the host to the VM?
- A. Assign all you can
 - B. Assign the minimum possible
 - ☒ C. Assign just enough
22. Say the name of a hypervisor mentioned in the video that works on Mac/Linux/Windows hosts
- ☒ A. VirtualBox
 - B. VMWare
 - C. Gnome
 - D. Hypervisor
23. What is done by the hypervisor for every VM?
- A. Associate to it fake software resources by borrowing them from the real machine
 - ☒ B. Associate to it, among others, CPU and RAM resources by borrowing them from the real machine
24. What of next are characteristics of a Hypervisor type 2?
- ☒ A. It is a Hypervisor installed on top of the OS that we already have in our real machine
 - ☒ B. VirtualBox is an example
 - C. You can't install it at your home computer but normally is used in the servers of big companies
25. What of next are characteristics of a Hypervisor type 1?
- ☒ A. It is a Hypervisor installed directly on top of the real machine hardware. Normally is used in companies
 - ☒ B. It isn't a Hypervisor like VirtualBox, but a Hypervisor like VMWare
 - C. You can't install at your home computer, can only be used in the servers of big companies

