

***CompTIA A Core 2 Exam Guide to Operating
Systems and Security 10th edition Andrews Test Bank***

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Ch 02: Installing Windows

Multiple Response

1. Penny is setting up computers at a local nonprofit organization. The computers were donated by a company that was upgrading to new computers. Penny must decide whether to use a 32-bit or 64-bit version of Windows 8.1.

What hardware on the computers should Penny check? (Select all that apply.)

- a. Video card
- b. Hard drive
- c. Motherboard
- d. RAM
- e. Processor
- f. Network card

ANSWER: b, d, e

FEEDBACK:

- a. Incorrect. The video card is not a factor when deciding whether to use a 32-bit or 64-bit version of Windows 8.1. The video requirements are the same for both versions. The video must support a Microsoft DirectX 9 graphics device with WDDM driver.
- b. Correct. The hard drive is a factor when deciding whether to use a 32-bit or 64-bit version of Windows 8.1. The amount of storage required for a 32-bit version is 16GB, and the amount of storage required for a 64-bit version is 20GB.
- c. Incorrect. The motherboard is not a factor when deciding which version of Windows 8.1 to use. However, the BIOS/UEFI will need to be compatible with Windows 8.1.
- d. Correct. RAM is the main factor in determining whether to use a 32-bit or 64-bit version of Windows. If the computers Penny is working on have four or more gigabytes of RAM installed, she should use the 64-bit version because a 32-bit OS will not be able address all the RAM.
- e. Correct. The processor is a factor when deciding on which version of Windows 8.1 to use. The computers Penny is working on must have a processor that can support a 64-bit OS. However, all multicore processors allow installation of a 64-bit OS.
- f. Incorrect. The network card is not a factor when deciding which version of Windows 8.1 to use. There is no requirement for a network card when installing Windows.

POINTS: 1

QUESTION TYPE: Multiple Response

HAS VARIABLES: False

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2. You are planning to install Windows 10 on your computer and must decide which file system to use on the hard drive.

What file systems are available in Windows 10 for a local hard drive? (Select all that apply.)

- a. exFAT
- b. FAT32
- c. CDFS
- d. ext4
- e. NTFS
- f. HFS

ANSWER: b, e

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FEEDBACK:

- a. Incorrect. The exFAT file system is used for large capacity flash drives. You can choose to format a flash drive using exFAT but not a hard drive.
- b. Correct. The FAT32 file system is available for use on a hard drive in Windows 10. However, FAT32 is not recommended because of its size, 32GB, and security limitations. FAT32 provides no security in the file system, and you cannot limit who has access to the data as you can with NTFS.
- c. Incorrect. The CDFS file system is used for CD-ROM drives. You will be able to read and write to CDs, but you will not be able to format a hard drive using CDFS.
- d. Incorrect. The ext4 is a Linux file system. You cannot read a drive that is formatted using ext4 in a Windows system.
- e. Correct. NTFS is the recommended file system for Windows 10. NTFS has security that allows you to limit access to data based on permissions. The maximum size of an NTFS hard drive is 16 TB.
- f. Incorrect. HFS is a MAC OS file system. Drives formatted with the HFS file system can be read only by a MAC OS.

POINTS: 1

QUESTION TYPE: Multiple Response

HAS VARIABLES: False

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3. Scott has just completed installing Windows 8.1 and needs to install several applications on the computer before returning it to his client.

What should Scott check prior to installing the applications? (Select all that apply.)

- a. System requirements
- b. Network status
- c. Hard drive space
- d. CPU priority

ANSWER: a, c

FEEDBACK:

- a. Correct. Scott should make sure that the RAM, CPU, and video graphics required to run the application are available.
- b. Incorrect. Scott does not need to check the network status unless he is downloading the application from the network. However, he can check the application's usage of the network after he installs the program.
- c. Correct. Scott should make sure the required amount of hard drive space is available to install the program. He might also need to ensure that enough storage space is available to save the program's data.
- d. Incorrect. Unless specifically told by the software manufacturer to do so, a technician should never change the CPU priority. CPU priority allows the application to use the CPU whenever it is needed.

POINTS: 1

QUESTION TYPE: Multiple Response

HAS VARIABLES: False

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4. What two methods are available for Windows to use to partition a drive?

- a. UEFI
- b. GPT
- c. exFAT
- d. MBR

ANSWER: b, d

FEEDBACK:

- a. Incorrect. UEFI or Unified Extensible Firmware Interface is the motherboard firmware.
- b. Correct. GPT, or GUID Partition Table, is a newer method of partitioning a drive that allows for any size hard drive and Windows can have up to 128 partitions.
- c. Incorrect. exFAT is a file system used by Windows, NOT a drive partitioning method.
- d. Correct. MBR, or Master Boot Record, is an older method of partitioning a drive, but only allows four partitions and is limited to 2.2-TB drives.

POINTS: 1

QUESTION TYPE: Multiple Response

HAS VARIABLES: False

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5. Which products are considered to be hypervisors?

- a. Client Hyper-V
- b. Virtual PC
- c. VirtualBox
- d. VMvisor
- e. VMware Player

ANSWER: a, b, c, e

FEEDBACK:

- a. Correct. Client Hyper-V is a hypervisor software that is embedded in Windows 10/8 Pro or Enterprise but is not available for other Windows releases.
- b. Correct. Virtual PC is a hypervisor software that is free for download in all other editions of Windows 10/8/7 except Windows 7 Starter
- c. Correct. VirtualBox is a hypervisor freeware.
- d. Incorrect. VMvisor is not a hypervisor software
- e. Correct. VMware Player is a hypervisor freeware.

POINTS: 1

QUESTION TYPE: Multiple Response

HAS VARIABLES: False

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Multiple Choice

6. Tracy has completed installing Windows 7 on a computer and is ready to install a printer. Tracy attaches the printer to the computer and a message pops up that a new device is being installed. When the process is done, she tries to locate the printer, but the printer is not available.

What can Tracy do to use the printer?

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- a. Turn the printer off and on again.
- b. Check the printer cable.
- c. Check UEFI/BIOS to make sure printing is enabled.
- d. Install the driver from the manufacturer's website.

ANSWER: d

FEEDBACK:

- a. Incorrect. Cycling the power is a quick way to make sure the issue is not with the hardware. However, the problem is that the software driver for the printer Tracy wanted to install is not available on the computer.
- b. Incorrect. If the printer cable were the issue, the computer would not have registered a new device. The issue is with the software the OS uses to communicate with the printer. This software is known as the device driver.
- c. Incorrect. Printers are not a type of hardware that UEFI/BIOS detects. No setting in UEFI/BIOS enables printing.
- d. Correct. Microsoft does not embed drivers for all devices. If a device will not work with the Windows drivers, Tracy should check for third-party drivers at the manufacturer's website.

POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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7. Jenny is preparing to install Windows 10 on a system that has a version of Windows 8.1 installed. This version of Windows 8.1 runs slowly and crashes occasionally. The optical drive also does not work, so Jenny decides to use a flash drive to install Windows 10. Jenny wants to remove all the programs and data from the computer and start over with Windows 10.

What type of installation should Jenny perform?

- a. In-place upgrade
- b. Repair installation
- c. Recovery installation
- d. Custom installation

ANSWER: d

FEEDBACK:

- a. Incorrect. An in-place upgrade would keep all the data and programs in Windows 8.1 and move them to Windows 10.
- b. Incorrect. While there is an issue with Windows 8.1, it will still run and Jenny can still use the OS. She would perform a repair installation only if Windows 8.1 were not working. Also, to do a repair installation, Jenny would have to repair the current OS. She would not be able to do an upgrade during a repair installation.
- c. Incorrect. Jenny is not trying to recover Windows 8.1. This option would refresh or reset the current OS. Jenny would refresh the PC to reinstall Windows and keep the stored files and settings. Jenny would reset the PC to reinstall Windows but delete the files, settings, and apps—except for the apps that came with the PC.
- d. Correct. Jenny wants to do a custom installation, also known as a clean installation. A custom installation will delete all the programs and files on the PC.

POINTS: 1

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HAS VARIABLES: False

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8. William's supervisor wants to create a test lab at the company in order to test Windows 10 updates. He has instructed William to create a virtual lab. William decides to use Hyper-V as the hypervisor for the virtual machines. When William tries to use Hyper-V, he realizes that it is not installed.

What will William use to install Hyper-V in Windows 10?

- a. Windows installation disk
- b. Windows features
- c. Windows Store
- d. Microsoft website

ANSWER: b

FEEDBACK:

- a. Incorrect. The Windows installation disk does not contain the installation files for Hyper-V. To enable Hyper-V, go to the Apps and Features window, select Turn Windows Features on or off, select Hyper-V, and click OK.
- b. Correct. Hyper-V is enabled in the Apps and Features window, where William can turn on a Windows feature by using a check box and selecting the required feature.
- c. Incorrect. The Windows Store does not contain an app to install Hyper-V. The Windows Store contains programs, music, movies, and books that can be used in Windows 10.
- d. Incorrect. There is documentation on how to use Hyper-V on the Microsoft website. However, William cannot download or install Hyper-V from the Microsoft website.

POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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9. Sam would like to install a new application on every computer in his SOHO network. All the computers are currently connected in a workgroup.

What is the easiest way for Sam to install the application on all the computers?

- a. Have a USB device for every computer.
- b. Have multiple copies of the software on a DVD.
- c. Go to the Windows Store and install the software on each computer.
- d. Use a network share to share the installation files.

ANSWER: d

FEEDBACK:

- a. Incorrect. Although a USB device will work, using it would be very inefficient because Sam would have to copy the installation files to multiple USB devices or copy the files to every computer before installation.
- b. Incorrect. Having multiple copies of the software on DVD might violate the copyright law. Also, Sam would still have to burn all the software to the DVD.
- c. Incorrect. Sam might have to purchase the software from the Windows Store for every computer. If the company already has the license for the software for all the computers, Sam would not want to purchase it again at the Windows Store.

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- d. Correct. Using a network share allows Sam to share the installation files from one location to all the computers on the network.

POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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10. What is it called when a partition is formatted with a file system and assigned a drive letter?

- a. Operating system
- b. Volume
- c. Path
- d. Product key

ANSWER: b

FEEDBACK:

- a. Incorrect. The operating system manages hardware, runs applications, provides an interface for users, stores, retrieves, and manipulates files to control the computer.
- b. Correct. A volume is a formatted partition with a file system and assigned drive letter.
- c. Incorrect. Path is the location of a file, including the drive and directories.
- d. Incorrect. A product key is a code that is required to activate a software license.

POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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11. What is the maximum number of partitions allowed using the GUID Partition Table (GPT) method for partitioning a drive for Windows?

- a. 4
- b. 64
- c. 128
- d. 256

ANSWER: c

FEEDBACK:

- a. Incorrect. MBR, or Master Boot Record, method is older, allows for four partitions, and is limited to 2.2-TB drives.
- b. Incorrect. MBR, or Master Boot Record, method only allows up to 4 partitions and the GPT method can have more than 64 partitions on a drive.
- c. Correct. GPT method of partitioning is newer, allows for any size hard drive, and for Windows can have up to 128 partitions on the drive.
- d. Incorrect. MBR, or Master Boot Record, method only allows up to 4 partitions and the GPT method is limited to much less than 256 partitions.

POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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12. What type of OS should you install for best performance when you have enough RAM?

- a. 8-bit
- b. 16-bit
- c. 32-bit
- d. 64-bit

ANSWER: d

FEEDBACK:

- a. Incorrect. 8-bit OS systems have been replaced by more powerful operating systems.
- b. Incorrect. 16-bit OS systems have been replaced by more powerful operating systems.
- c. Incorrect. 32-bit OS for Windows are still in use. However, more powerful operating systems will give better performance if you have enough RAM.
- d. Correct. 64-bit OS for Windows should be installed for best performance when you have enough RAM.

POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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13. What is it called when software is used to simulate the hardware of a physical computer?

- a. Dual boot
- b. Windows Run as Administrator
- c. Virtual machine
- d. Compatibility mode

ANSWER: c

FEEDBACK:

- a. Incorrect. A dual boot, or multiboot, allows you to install a new OS without disturbing the old one, so that you can boot to either OS.
- b. Incorrect. Using Windows Run as Administrator allows the user to run programs and applications that may be restricted by Windows user account security.
- c. Correct. A virtual computer, or virtual machine (VM), is software that simulates the hardware of a physical computer.
- d. Incorrect. Windows compatibility mode is used to run programs and applications that used to run on older versions of Windows.

POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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14. If you wish to install a new OS without disturbing the old one so that you can boot to either OS, what type of boot setup should you create?

- a. Dual
- b. Cross
- c. Controlled

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d. Selective

ANSWER: a

FEEDBACK:

- a. Correct. A dual boot, or multiboot, allows you to install a new OS without disturbing the old one, so that you can boot to either OS.
- b. Incorrect. Cross boot is NOT used to describe the installation of a new OS without disturbing the old one, so that you can boot to either OS.
- c. Incorrect. Controlled boot is NOT used to describe the installation of a new OS without disturbing the old one, so that you can boot to either OS.
- d. Incorrect. Selective boot is NOT used to describe the installation of a new OS without disturbing the old one, so that you can boot to either OS.

POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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15. What type of installation should you perform if you want to install a 64-bit version of Windows on a computer that already has a 32-bit OS installed?

- a. Clean install
- b. Dual boot
- c. In-place upgrade
- d. Standard

ANSWER: a

FEEDBACK:

- a. Correct. If you want to install a 64-bit version of Windows on a computer that already has a 32-bit OS installed, you must perform a clean install.
- b. Incorrect. A dual boot installation installs a separate OS and requires its own partition.
- c. Incorrect. In-place upgrades only allow OS version upgrades. 32-bit Windows OS can only upgrade to a 32-bit OS and 64-bit Windows OS can only upgrade to a 64-bit OS.
- d. Incorrect. Standard installation is not used to describe the installation of a 64-bit or 32-bit Windows OS.

POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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16. Where should a user disable virus protection settings that might prevent the boot area of the hard drive from being altered?

- a. Control Panel
- b. BIOS/UEFI setup
- c. Device Manager
- d. Start menu

ANSWER: b

FEEDBACK:

- a. Incorrect. Control Panel settings control Windows OS settings. Installations of a new OS or upgrade may require changes to settings in other areas.

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- b. Correct. You should disable any virus protection settings that might prevent the boot area of the hard drive from being altered in the BIOS/UEFI setup before any installation.
- c. Incorrect. The Device Manager manages the devices connected to the computer. Installations of a new OS or upgrade may require changes to settings in other areas.
- d. Incorrect. The Start menu allows access to the application installed in the OS. Installations of a new OS or upgrade may require changes to settings in other areas.

POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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17. What is used to change motherboard settings, finds a boot device, and contains instructions for running essential hardware before an OS is started?

- a. Kernel
- b. Device driver
- c. BIOS/UEFI setup
- d. Control Panel

ANSWER: c

FEEDBACK:

- a. Incorrect. The kernel is the part of Windows OS responsible for relating to hardware. The OS must successfully start before the kernel makes changes.
- b. Incorrect. Windows uses device drivers to communicate with hardware. The OS must successfully start before the using the device drivers.
- c. Correct. The BIOS/UEFI setup is used to change motherboard settings, finds a boot device, and contains instructions for running essential hardware before an OS is started.
- d. Incorrect. The Control Panel can only be used after the OS has successfully started.

POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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18. Which of the following is used to uniquely identify a computer on a network?

- a. Network ID
- b. Serial number
- c. IP address
- d. Microsoft ID

ANSWER: c

FEEDBACK:

- a. Incorrect. A network ID is a type of Windows account that authenticates the user to a local computer and to the Windows domain on a corporate network or in the cloud.
- b. Incorrect. The serial number of the computer is physically located on the computer. This number is not associated with a network.
- c. Correct. An IP address uniquely identifies a computer on the network.
- d. Incorrect. A Microsoft account is an email address initially setup on a Microsoft Web site and it gives access to several types of accounts.

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POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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19. The Master Boot Record (MBR) method of partitioning hard drives is limited to what maximum size of drives?

- a. 1TB
- b. 1.2TB
- c. 2.2TB
- d. 4TB

ANSWER: c

FEEDBACK:

- a. Incorrect. MBR, or Master Boot Record, method is older, allows for four partitions, and it can handle more than 1-TB drives.
- b. Incorrect. MBR, or Master Boot Record, method is older, allows for four partitions, and it can handle more than 1.2-TB drives.
- c. Correct. MBR, or Master Boot Record, method is older, allows for four partitions, and is limited to 2.2-TB drives.
- d. Incorrect. MBR, or Master Boot Record, method is older, allows for four partitions, and is limited to much less than 4.2-TB drives.

POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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20. What component of UEFI helps to prevent malware from hijacking a system during or before the operating system load?

- a. Execute Disable Bit
- b. Secure Boot
- c. UEFI Defender
- d. BitLocker

ANSWER: b

FEEDBACK:

- a. Incorrect. Execute Disable Bit is an Intel hardware-based security feature.
- b. Correct. UEFI has a security system called Secure Boot which helps prevent malware from hijacking a system during or before the operating system load.
- c. Incorrect. The UEFI component to help prevent malware from hijacking a system is NOT called UEFI Defender.
- d. Incorrect. BitLocker is an encryption feature built into Windows to prevent data loss due to computer or drive theft.

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QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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21. If using a dual or multiboot configuration, what screen appears during the boot sequence?

- a. OS select BIOS screen
- b. Boot loader menu
- c. Multi-Windows Login screen
- d. Secure Boot OS page

ANSWER: b

FEEDBACK:

- a. Incorrect. The OS select BIOS screen is not seen in the dual or multiboot sequence.
- b. Correct. The boot loader menu appears during the boot sequence when using a dual or multiboot configuration.
- c. Incorrect. Windows does not use a Multi-Window Login screen.
- d. Incorrect. The Secure Boot selection is made in the UEFI setup.

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QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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22. What term refers to a major update release on Windows 7?

- a. System release
- b. Update pack
- c. Security update
- d. Service pack

ANSWER: d

FEEDBACK:

- a. Incorrect. Windows system releases refer to version releases, such as Windows 8.1 and Windows 10.
- b. Incorrect. Updates are packaged together in Windows 10 as updates.
- c. Incorrect. Windows uses security updates to fix or resolve security issues in Windows.
- d. Correct. Windows 7 major updates are released as service packs.

POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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23. What version of Windows 10 is a valid, in-place upgrade path for a computer that has Windows 7 Starter edition on it?

- a. Windows 10 Starter
- b. Windows 10 Home
- c. Windows 10 Pro
- d. Windows 7 Professional to Windows 8.1 to Windows 10

ANSWER: b

FEEDBACK:

- a. Incorrect. Windows does not have a Windows 10 Starter OS. Windows 10 has specific

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upgrade paths depending on the installed edition.

- b. Correct. Windows 10 Home is a valid, in-place upgrade path for a computer that has Windows 7 Starter edition on it.
- c. Incorrect. Windows 10 Pro is a valid, in-place upgrade path for a computer with Windows 7 Professional and Windows 7 Ultimate, but NOT Windows 7 Starter.
- d. Incorrect. The upgrade path from Windows 7 Starter is direct. You do not need to install each version, but you must upgrade to the correct path.

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QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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24. If a clean install is performed on a hard drive with a previous install of Windows and the drive is not re-formatted during the install, where will the files from the old installation be?

- a. system32
- b. Windows
- c. Windows.old
- d. Program Files (saved)

ANSWER: c

FEEDBACK:

- a. Incorrect. The files from the old installation will NOT be located in the system32 folder. During a clean install without re-formatting, previous settings and user profiles are moved to another folder.
- b. Incorrect. The Windows folder contains the Windows files from the current installation. Previous settings and user profiles are moved to another folder during a clean install without re-formatting.
- c. Correct. During a clean install on a hard drive with a previous installation of Windows, if the drive is not re-formatted the files from the old installation will be stored in the Windows.old folder.
- d. Incorrect. The files from the old installation will NOT be located in the Program Files (saved). During a clean install without re-formatting, previous settings and user profiles are moved to another folder.

POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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