INSTALL AND RUN "VIRTUAL MACHINES" INSIDE YOUR REAL PHYSICAL "WINDOWS.." COMPUTER

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SUMMARY

You can install "virtual machines" inside your existing Windows computer. Then you can install and run "guest operating systems" inside these "virtual machines" to try out computer operating systems that are different from the one that is running in your existing Windows, Linux, or MacOS computer.
TOPICS

- Type 1 versus Type 2 Hypervisors
- Three Hypervisor Options for a "Windows.." Computer
TYPE 1 VERSUS TYPE 2
"HYPERVERVISORS"

• "Virtual machine program"
  = "Hypervisor"
  = software program that can create virtual machines

• "Virtual machines" have virtual motherboards, virtual USB ports, virtual sound cards, virtual hard drive controllers, virtual mice, virtual keyboards, etc.
Real computer (="host computer") runs 64-bit version of "Windows..

"Type 2" Hypervisor such as "VMware Workstation Player" or "Virtualbox" runs inside "Windows..

"Virtual Machine" running one of the following operating "guest operating systems": Linux, Windows.., MS-DOS, Unix, etc.
Real computer (= host computer) runs "Type 1" Hypervisor such as "Hyper-V"

"Windows 10" or "Windows 8" runs inside "Hyper-V" as a "Root Partition" (= "Parent Partition")

"Virtual Machine" running one of the following "guest operating systems" : Linux, Windows..., MS-DOS, Unix, etc.
THREE HYPERVERVISOR OPTIONS FOR A "WINDOWS.." COMPUTER

- "VMWare Workstation Player"
- "VirtualBox"
- "Hyper-V"
THREE HYPERVISOR OPTIONS FOR A "WINDOWS.." COMPUTER (continued)

- "VMWare Workstation Player" and "VirtualBox" are both free for "private in-home use". Neither is free for use in any business, company, government entity, or non-profit organization.

- "Hyper-V" is bundled into "Windows 10 Pro", "Windows 10 Education", "Windows 10 Enterprise".
THREE HYPERVERVISOR OPTIONS FOR A "WINDOWS.." COMPUTER (continued)

- "VMWare Workstation Player" is owned by the "VMware" company
- "VirtualBox" is owned by the "Oracle" company
- "Hyper-V" is owned by the "Microsoft" company
THREE HYPERVERVISOR OPTIONS FOR A "WINDOWS.." COMPUTER (continued)

- "VMWare Workstation Player" and "VirtualBox" will run in any version of "Windows."
- For "retail" copies of "Windows..": "Hyper-V" is bundled with the "Windows 8.1 Pro" and "Windows 10". It is not available in "Windows 10 (core)" or "Windows 10 Home".
THREE HYPERVERVISOR OPTIONS FOR A "WINDOWS.." COMPUTER (continued)

- "VMWare Workstation Player" has great USB 2/3 and audio support
- "VirtualBox" has unreliable USB 2/3 and audio support
- "Hyper-V" has no USB or audio support for Linux operating system but "Hyper-V" runs faster than the other two "VMware Workstation Player" and "VirtualBox"
GENERIC IMPLEMENTATION
PROCEDURE FOR
RUNNING
"VIRTUAL MACHINES"
Real computer (="host computer") runs 64-bit version of "Windows 7", "Windows 8.1," or "Windows 10"
BIG STEP 100: INSTALL A "VIRTUAL MACHINE PROGRAM" (= "hypervisor")
Real computer (="host computer") runs 64-bit version of "Windows..

Install the a single "virtual machine program" such as "VMware Workstation Player", "VirtualBox", or "Hyper-V"
BIG STEP 200:
CREATE A NEW "VIRTUAL MACHINE" USING THE "VIRTUAL MACHINE" PROGRAM
Real computer (="host computer") runs 64-bit version of "Windows.."

"virtual machine program" (= "hypervisor")

Create a new "virtual machine"
BIG STEP 300:
INSTALL A "GUEST OPERATING SYSTEM" INTO THE "VIRTUAL MACHINE"
Real computer (="host computer") runs 64-bit version of "Windows..

"virtual machine program" (= "hypervisor")

Install a single "guest operating system" inside the "virtual machine" such as Ubuntu Linux, Windows 10 Enterprise Evaluation, etc.