

USING A FREE VIRTUAL MACHINE TO SIMULATE A HEWLETT PACKARD "STREAM 11" LAPTOP

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Web location for this
presentation:

<http://aztcs.org>

Click on

“Meeting Notes”

SUMMARY

From inside your existing computer, you can use a free copy of "Windows 8.1" inside a free virtual machine to simulate a Hewlett Packard \$200 "Stream 11" laptop

TOPICS

- Advantages of using a virtual machine to simulate a computer that you or some else plans to buy
- Obtaining the manufacturer's specifications for the HP "Stream 11" laptop
- Using published reviews and users' comments for fine tuning the simulation of HP "Stream 11" laptop

TOPICS (continued)

- Installing a free virtual machine program into your existing computer
- Creating a new virtual machine

TOPICS (continued)

- Obtaining a free, time-limited copy of "Windows 8.1 Enterprise Evaluation" for the virtual machine
- Installing the free, time-limited copy of "Windows 8.1 Enterprise Evaluation" into the virtual machine

TOPICS (continued)

- Fine tuning the number of virtual processor cores for the virtual machine
- Fine tuning the amount of RAM for the virtual machine

TOPICS (continued)

- Installing (desktop) software application programs into the virtual machine
- Installing "Windows Store apps" into the virtual machine

TOPICS (continued)

- Monitoring free space on the virtual internal hard drive of the virtual machine

ADVANTAGES OF
USING A VIRTUAL
MACHINE TO SIMULATE
A HEWLETT PACKARD
"STREAM 11" LAPTOP

ADVANTAGES OF USING A VIRTUAL MACHINE TO SIMULATE A HP "STREAM 11" ..

- Determine if the HP "Stream 11" laptop has enough RAM and free hard drive space for the end user's needs.
- Determine what additional computer accessories will be needed by the end user.

ADVANTAGES OF USING A VIRTUAL MACHINE TO SIMULATE A HP "STREAM 11.. (continued)

- Determine if the HP "Stream 11" laptop is compatible with the end users' existing computer and networking equipment

OBTAINING THE
MANUFACTURER'S
SPECIFICATIONS
FOR THE HP
"STREAM 11"
LAPTOP:

OBTAINING THE MANUFACTURER'S SPECIFICATIONS..

- Use the manufacturer's Web site to determine the exact edition of "Windows..", the amount of RAM, the size of the hard drive, the maximum resolution of the monitor

OBTAINING THE MANUFACTURER'S SPECIFICATIONS (continued)

- Use a Web browser to go to <http://store.hp.com/webapp/wcs/stores/servlet/us/en/pdp/Laptops/hp-stream-notebook---11-d010nr-energy-star>



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complete customization

365

24/7 free support

Free

5



HP Stream - 11-d010nr Laptop

[See all offers](#)

- Windows 8.1 64 with Bing
- Intel® Celeron® N2840 with Intel HD Graphics (2.16 GHz, up to 2.58 GHz, 1 MB cache, 2 cores)
- 2 GB 1333 MHz DDR3 SDRAM (1 x 2 GB)
- 11.6" diagonal HD anti-glare WLED-backlit (1366 x 768)

[See all Specs](#)

\$199.99

Add To Cart



Feedback?



HP Stream - 11-d010nr Laptop

[See all offers](#)

- Windows 8.1 64 with Bing
- Intel® Celeron® N2840 with Intel HD Graphics (2.16 GHz, up to 2.58 GHz, 1 MB cache, 2 cores)
- 2 GB 1333 MHz DDR3 SDRAM (1 x 2 GB)
- 11.6" diagonal HD anti-glare WLED-backlit (1366 x 768)

- Windows 8.1 64 with Bing
- Intel® Celeron® N2840 with Intel HD Graphics (2.16 GHz, up to 2.58 GHz, 1 MB cache, 2 cores)
- 2 GB 1333 MHz DDR3 SDRAM (1 x 2 GB)
- 11.6" diagonal HD anti-glare WLED-backlit (1366 x 768)

11.6" diagonal HD anti-glare WLED-backlit
(1366 x 768)

Hard drive

32 GB eMMC

32 GB eMMC

OBTAINING THE MANUFACTURER'S SPECIFICATIONS (continued)

- For details about "eMMC", see <http://www.howtogeek.com/196541/emmc-vs.-ssd-not-all-solid-state-storage-is-equal/>

Wireless

802.11b/g/n (1x1); Bluetooth®

Power supply

45 W AC power adapter

OBTAINING THE MANUFACTURER'S SPECIFICATIONS (continued)

- For details about "eMMC", see <http://www.howtogeek.com/196541/emmc-vs.-ssd-not-all-solid-state-storage-is-equal/>

Battery

3-cell

37 Wh Li-ion polymer

Battery life

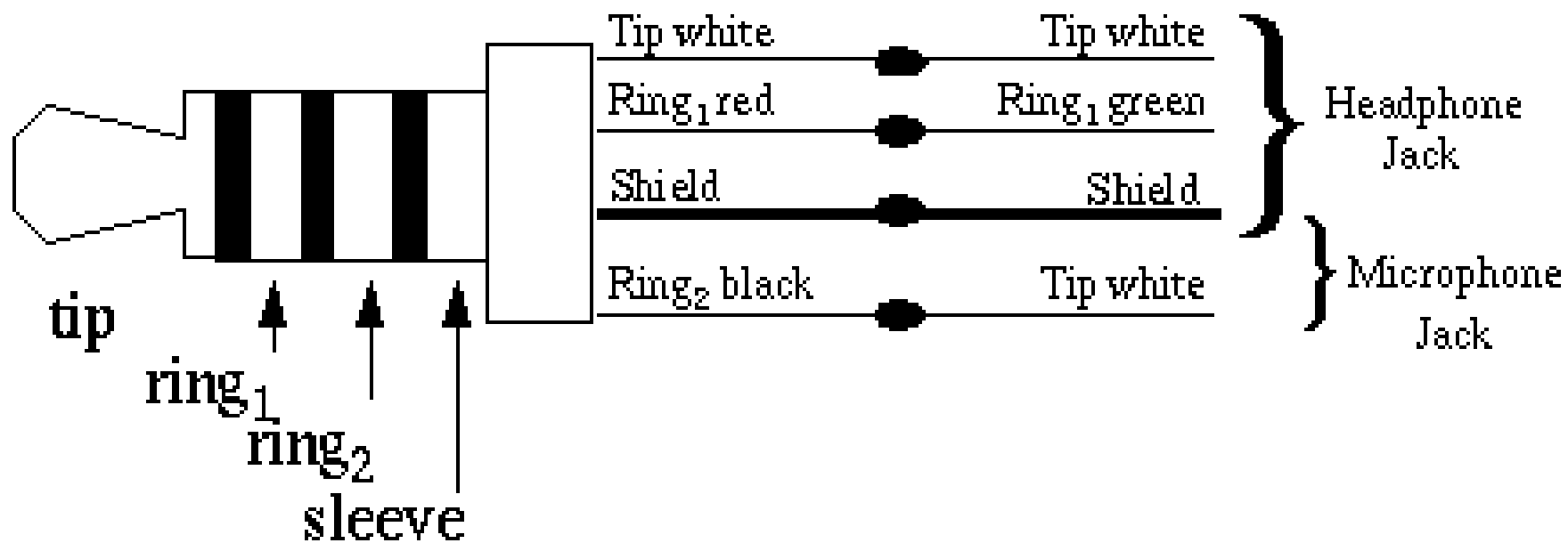
Up to 8 hours and 15 minutes

OBTAINING THE MANUFACTURER'S SPECIFICATIONS (continued)

- Battery cannot be replaced by the end-user of the computer.

Ports

1 USB 3.0; 1 USB 2.0; 1 HDMI; 1
headphone/microphone combo



Expansion slots

1 multi-format SD media card reader

Webcam

HP TrueVision HD Webcam (front-facing) with integrated digital microphone

Dimensions

11.81 x 8.1 x 0.78 in

Weight

2.74 lbs

OBTAINING THE MANUFACTURER'S SPECIFICATIONS (continued)

- The User's Manual is available at

<http://h10032.www1.hp.com/ctg/Manual/c04489612.pdf>

USING PUBLISHED
REVIEWS AND USERS'
COMMENTS FOR FINE-
TUNING THE SIMULATION
OF THE TARGET
COMPUTER MODEL:

USING PUBLISHED REVIEWS AND USERS COMMENTS ..

- Using published reviews and users' comments, you can determine specifications that the computer manufacturer does not publish on their Web site:

USING PUBLISHED REVIEWS AND USERS COMMENTS .. (continued)

- Size of the C: hard drive partition and the "Restore" partition
- Processor Benchmarks
- Bundled software and drivers

DETERMINE THE SIZE OF
THE C: DRIVE PARTITION
AND THE "RESTORE"
PARTITION

DETERMINE THE SIZE OF THE C: DRIVE PARTITION AND THE RESTORE PARTITION

- 21.5 Gigabyte C: hard drive partition
and a
8 Gigabyte "Restore"
partition
according to:

DETERMINE THE SIZE OF THE C: DRIVE PARTITION AND THE RESTORE PARTITION (continued)

- <http://www.pcworld.in/how2s/hands-hps-stream-11-200-windows-laptop-wants-kill-chromebooks>
- <http://www.amazon.com/review/R28HR668I6LU8Y>

DETERMINE THE SIZE OF THE C: DRIVE PARTITION AND THE RESTORE PARTITION (continued)

- <http://www.zdnet.com/what-can-you-expect-from-a-199-pc-more-than-you-might-expect-7000035888/>

DETERMINE PROCESSOR BENCHMARKS

DETERMINE PROCESSOR BENCHMARKS

- 1245 =
"PCMark 8" "Work conventional"
benchmark
according to
<http://www.pcworld.in/how2s/hands-hps-stream-11-200-windows-laptop-wants-kill-chromebooks>

DETERMINE PROCESSOR BENCHMARKS

- 1757 =
"PCMark 8" "Work conventional"
benchmark according to
<http://www.pcmag.com/article2/0,2817,2472504,00.asp>
and
[http://www.computershopper.com/laptops/reviews/hp-stream-11/\(page\)/2#review-body](http://www.computershopper.com/laptops/reviews/hp-stream-11/(page)/2#review-body) ⁴⁴

DETERMINE PROCESSOR BENCHMARKS (continued)

- 1245 =
"PCMark 8" "Work conventional"
benchmark
according to
<http://www.pcworld.in/how2s/hands-hps-stream-11-200-windows-laptop-wants-kill-chromebooks>

DETERMINE BUNDLED SOFTWARE AND DRIVERS

DETERMINE BUNDLED SOFTWARE AND DRIVERS

- Bundled with a 12-month subscription to Microsoft "Office 365 Personal" which is, in turn, bundled with a 1-Terabyte cloud storage allotment at any existing or new "OneDrive" account.

DETERMINE BUNDLED SOFTWARE AND DRIVERS

- Microsoft is in the process of converting the OneDrive space allotment that is bundled with "Office 365.." to "unlimited"

according

<https://blog.onedrive.com/office-365-onedrive-unlimited-storage/>

DETERMINE BUNDLED SOFTWARE AND DRIVERS

- "Office 365.." is NOT pre-installed into the HP "Stream 11" laptop. After you download it into the laptop, it will take up approximately 2.6 Gigabytes of space on the C: hard drive partition.

DETERMINE BUNDLED SOFTWARE AND DRIVERS

- If you activate the "OneDrive" Windows Store app with an existing "Microsoft account" that already has files and folders stored up at "OneDrive", it will immediately "synchronize" your "OneDrive" folder on the local C: hard drive partition.

DETERMINE BUNDLED SOFTWARE AND DRIVERS

- If you activate the "OneDrive" Windows Store app, it with an existing "Microsoft account" that already has files and folders stored up at "OneDrive", it is best to immediately halt the synchronization process:

Windows 8.1 Enterprise Evaluation
Windows License valid for 85 days
Build 9600



8:36 PM

12/2/2014

Open OneDrive in File Explorer

Go to the OneDrive website

View sync problems

Sync

Pause syncing

OneDrive storage

Settings

Help

ram Files

12/2/2014

DETERMINE BUNDLED SOFTWARE AND DRIVERS (continued)

- According to http://h10025.www1.hp.com/ewfrf/wc/softwareCategory?os=4158&lc=en&cc=us&dlc=en&sw_lang=&product=7538970



Driver - Audio (1)

Realtek High-Definition (HD) Audio Driver

2014-10-17 , Version 6.0.1.7339 A, 225.45M

This package provides the driver for the Realtek High-Definition (HD) Audio in supported notebook models that are running a supported operating system. ([More details](#))

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Driver - Chipset (5)

Intel Chipset Installation Utility and Driver

2014-10-17 , Version 9.4.4.1006 A, 6.23M

This package contains the Intel Chipset Installation Utility and Driver for supported notebook models and operating systems. This utility enables the operating system to show the correct name for the ... [\(More details\)](#)

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Intel Dynamic Platform and Thermal Framework Driver

2014-10-17 , Version 7.10.0.2210 A, 6.89M

This package contains the driver that enables the Intel Dynamic Platform and Thermal Framework firmware. Intel Dynamic Platform and Thermal Framework provide system temperature and power utilization ... ([More details](#))

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Intel Dynamic Platform and Thermal Framework Driver

2014-10-17 , Version 7.10.0.2210 A, 6.89M

This package contains the driver that enables the Intel Dynamic Platform and Thermal Framework firmware. Intel Dynamic Platform and Thermal Framework provide system temperature and power utilization ... ([More details](#))

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Intel Serial IO Driver without Connected Standby Support

2014-10-17 , Version603.9600.1948.29470 A, 1.58M

This package contains the Intel Serial IO Driver without Connected Standby Support. This package installs the Intel General-Purpose Input/Output (GPIO) host controller driver and the Intel ... ([More details](#))

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Intel Sideband Fabric Device Driver

2014-10-17 , Version 1.70.305.16316 A, 1.37M

This package provides the driver that enables the Intel Sideband Fabric device. Intel Sideband Fabric Device Driver is a bridge to the Intel Dynamic Platform and Thermal Framework. This package is ... ([More details](#))

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Intel Trusted Execution Engine Interface Driver

2014-10-17 , Version 1.1.0.1064 A, 34.7M

This package provides the Intel Trusted Execution Engine Interface (TXE) Driver for the supported notebook models running a supported operating system. The Intel Trusted Execution Engine Interface ... ([More details](#))

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[-] **Driver - Graphics** (1)

Intel High-Definition (HD) Graphics Driver

2014-10-17 , Version 10.18.10.3925 A, 123.34M

This package provides the driver that enables the Intel High-Definition (HD) Graphics in supported notebook models that are running a supported operating system. If high-definition multimedia ... ([More details](#))

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[-] Driver - Keyboard, Mouse and Input Devices (1)

Synaptics Touchpad Driver

2014-10-17 , Version18.1.29.0 A, 77.68M

This package provides the driver that enables the Synaptics TouchPad in supported notebook models that are running a supported operating system. The driver enables general touchpad functionality (for ... [\(More details\)](#))

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[-] **Driver - Network** (4)

Realtek RTL8723BE/RTL8188EE 802.11b/g/n Wireless LAN Drivers

2014-10-23 , Version 2013.8.915.2014 A, 30.57M

This package contains the driver installation package for the Realtek RTL8723BE/RTL8188EE wireless LAN Controller in the supported notebook models running a supported operating system. ([More details](#))

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Broadcom 802.11b/g/n Wireless LAN Driver

2014-08-28 , Version 6.223.215.14 A, 36.25M

The package contains Broadcom Wireless LAN driver. It is required to enable integrated Broadcom Wireless LAN adapter. ([More details](#))

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Broadcom Bluetooth Driver

2014-08-22 , Version 12.0.0.9840 A, 22.15M

This package contains the Broadcom Bluetooth driver for supported notebook models that are running a supported operating system. Broadcom Bluetooth Driver is required to enable Broadcom Bluetooth ... ([More details](#))

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HP hs3110/hs3114 Mobile Broadband Drivers

2014-04-28 , Version 12.1803.2.4 A, 37.82M

This package provides the device drivers for the HP hs3110/hs3114 HSPA+ Mobile Broadband modules in supported notebook models running a supported operating system. ([More details](#))

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[-] Driver - Storage (1)

Realtek Card Reader Driver

2014-10-17 , Version 6.3.9600.30176 A, 8.83M

This package contains the driver that enables the Realtek Card Reader in supported notebook models that are running a supported operating system. The card reader enables users to read from or write to ... ([More details](#))

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[-] **Software - Solutions** (1)

HP System Event Utility

2014-10-09 , Version 1.20 C, 2.8M

This package contains the HP System Event Utility for supported notebook models running a supported operating system. HP System Event Utility enables special function keys to be programmed. ([More details](#))

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[-] **Utility - Tools** (2)

HP Wireless Hotspot Software

2014-11-03 , Version 1.0.27.1 A, 5.97M

This package provides the HP Wireless Hotspot software for supported notebook models running a supported operating system. HP Wireless Hotspot allows the Internet connection on a supported notebook to ... ([More details](#))

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HP Support Assistant Software

2014-09-22 , Version 7.7.34.34 A, 35.86M

This package provides the HP Support Assistant Software for the supported notebook models running a supported operating system. The HP Support Assistant enables HP customers to discover, maintain, and ... ([More details](#))

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DETERMINE BUNDLED SOFTWARE AND DRIVERS

- According to http://www.amazon.com/review/R1S8YTLV25JQS5/ref=cm_cr_pr_viewpnt#R1S8YTLV25JQS5, Cisco LEAP networking software and the following are bundled with the HP "Stream 11" laptop:

Various HP junkware
Apple Bonjour (spyware in my opinion)
Dropbox
TripAdvisor
Amazon
McAfee LiveSafe
Weather Channel
"Snapfish"
"MySMS"

DETERMINE BUNDLED SOFTWARE AND DRIVERS

- According to [http://www.computershopper.com/holidayguide/2014/analysis-best-black-friday-laptop-deals-2014/\(page\)/2#review-section](http://www.computershopper.com/holidayguide/2014/analysis-best-black-friday-laptop-deals-2014/(page)/2#review-section)

32GB of flash storage; 1TB of OneDrive cloud storage for a year; and one year's subscription to Office 365 Personal. The Walmart gift card is a perky plus—perhaps suitable for an antivirus solution if you don't want to pony up for the McAfee LiveSafe trial included on the system.

DETERMINE BUNDLED SOFTWARE AND DRIVERS

- To confuse the end-user, "Best Buy" throws in another antivirus software trial which changes daily.

See

<http://www.bestbuy.com/site/hp-stream-11-6-laptop-intel-celeron-2gb-memory-32gb-emmc-solid-state-drive-horizon-blue/9195102.p?id=1219398344673&skuld=9195102>

**INSTALLING A FREE
VIRTUAL MACHINE
PROGRAM INTO
YOUR EXISTING
COMPUTER:**

INSTALLING A FREE VIRTUAL MACHINE PROGRAM..

- Before you can create a virtual machine in your existing "Windows..", Mac "OS X", or Linux computer, you need to install a free (or not free) virtual machine program:

INSTALLING A FREE VIRTUAL MACHINE PROGRAM.. (continued)

- For a "Windows.." computer, you can install the free "VMware Player" program, or the free "Oracle VM VirtualBox" program. If you are running "Windows 8", "Windows 8.1", or "Windows Technical Preview" of "Windows 10", you can also activate the bundled "Hyper-V" program.

INSTALLING A FREE VIRTUAL MACHINE PROGRAM.. (continued)

- For a Mac "OS X" computer, you can install the "Oracle VM VirtualBox" program (free), or the "Parallels Desktop" program (not free) or the "VMware Fusion" program (not free)

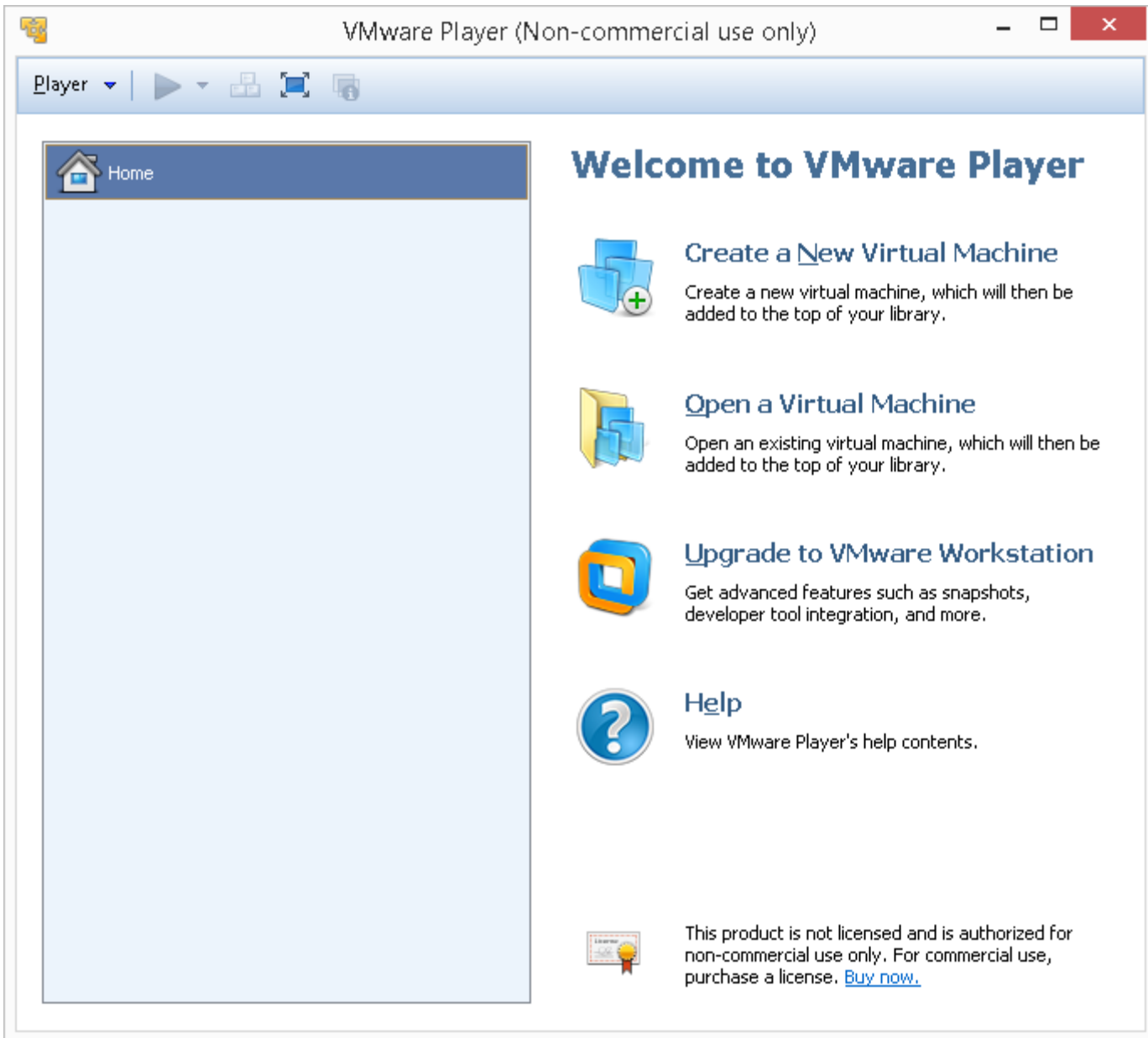
INSTALLING A FREE VIRTUAL MACHINE PROGRAM.. (continued)

- For a Linux computer, you can install the "Oracle VM VirtualBox" program (free), or the "VMware Player program (free)

CREATING A NEW VIRTUAL MACHINE:

CREATING A NEW VIRTUAL MACHINE

- Start up the virtual machine program
- Then use its wizard for creating a new virtual machine





Create a New Virtual Machine

Create a new virtual machine, which will then be added to the top of your library.

**OBTAINING A FREE, TIME-
LIMITED COPY OF
"WINDOWS.."**

OBTAINING A FREE, TIME-LIMITED COPY OF "WINDOWS 8.1.."

- To obtain a free, time-limited copy of "Windows 8.1..", see <http://www.microsoft.com/en-us/evalcenter/evaluate-windows-8-1-enterprise>



http://www.microsoft.com/en-us



Try



Windows 8.1 Enterprise

Evaluations | **90 days**



Download

Please sign in to download Window

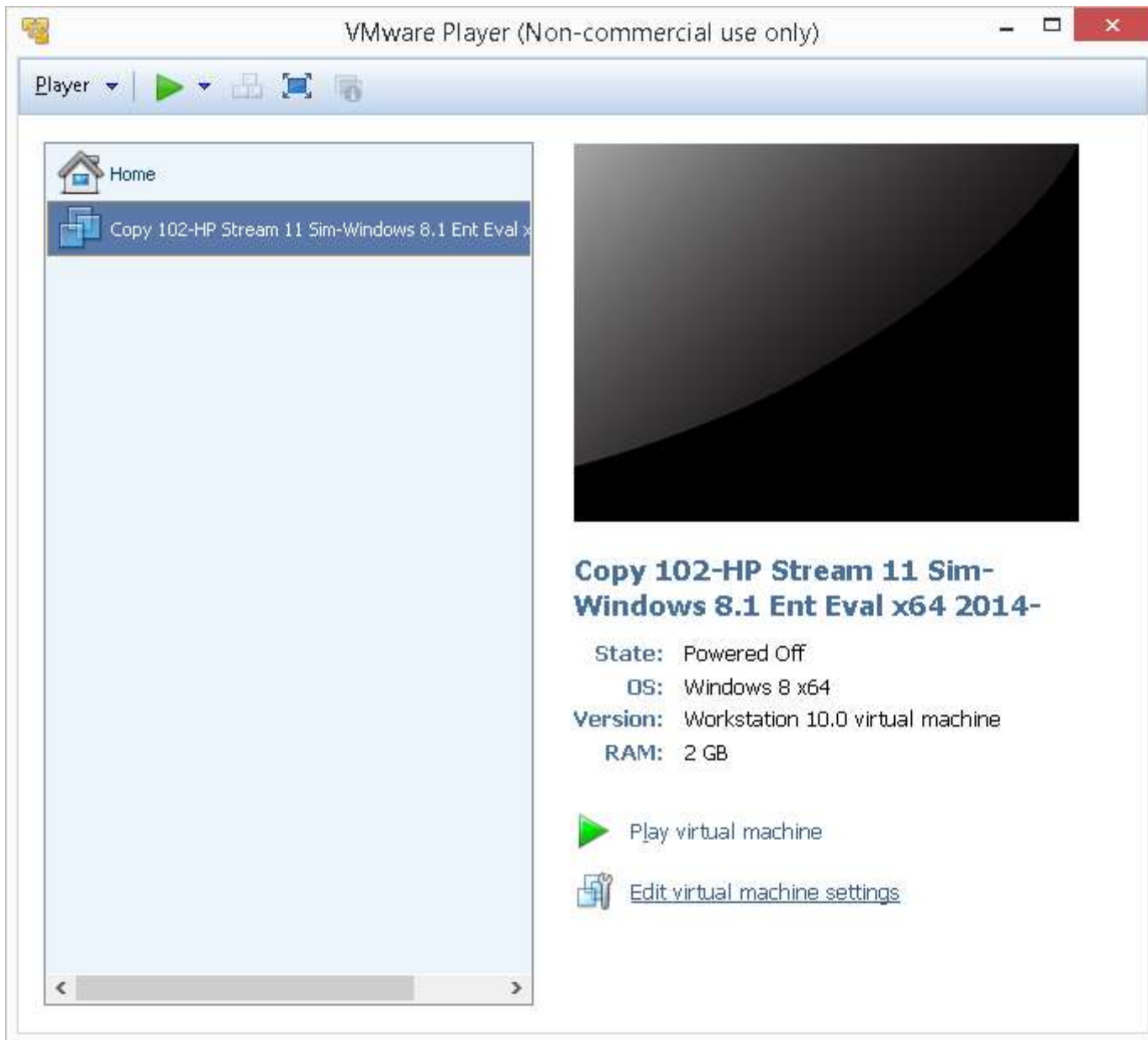
Sign In

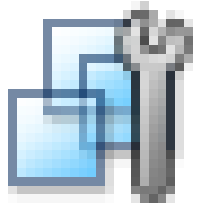
INSTALLING A FREE, TIME-
LIMITED COPY OF
"WINDOWS.." INTO THE
NEW VIRTUAL MACHINE

INSTALLING A FREE, TIME-LIMITED COPY OF "WINDOWS.." INTO THE NEW VIRTUAL MACHINE

- To install the free, time-limited copy of "Windows 8.1.." into the new virtual machine, see http://aztcs.org/meeting_notes/winhardsig/win8.1/win8.1enteval.pdf

FINE TUNING THE AMOUNT OF RAM FOR THE VIRTUAL MACHINE:





Edit virtual machine settings

Virtual Machine Settings

Hardware
Options
×

Device	Summary
Memory	2 GB
Processors	1
Hard Disk (SCSI)	32 GB
Network Adapter	NAT
USB Controller	Present
Sound Card	Auto detect
Display	1 monitor

Add...
Remove

Memory

Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.

Memory for this virtual machine: 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.)
24384 MB

Recommended memory
2048 MB

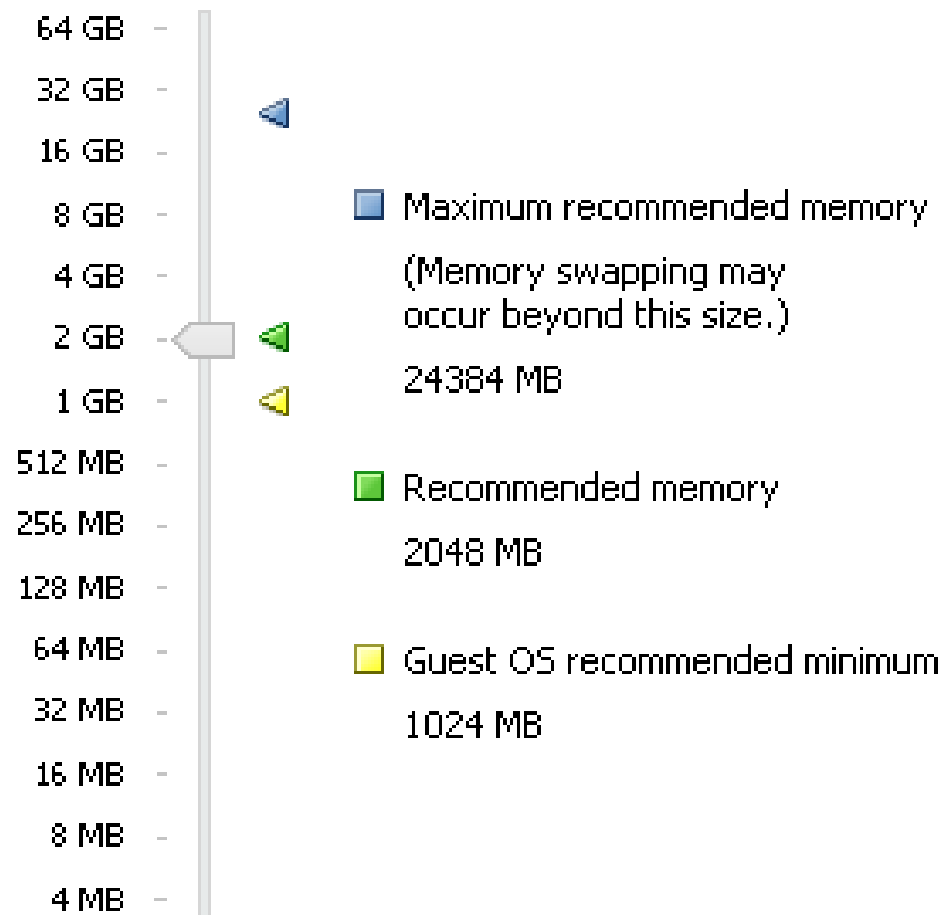
Guest OS recommended minimum
1024 MB

OK
Cancel
Help

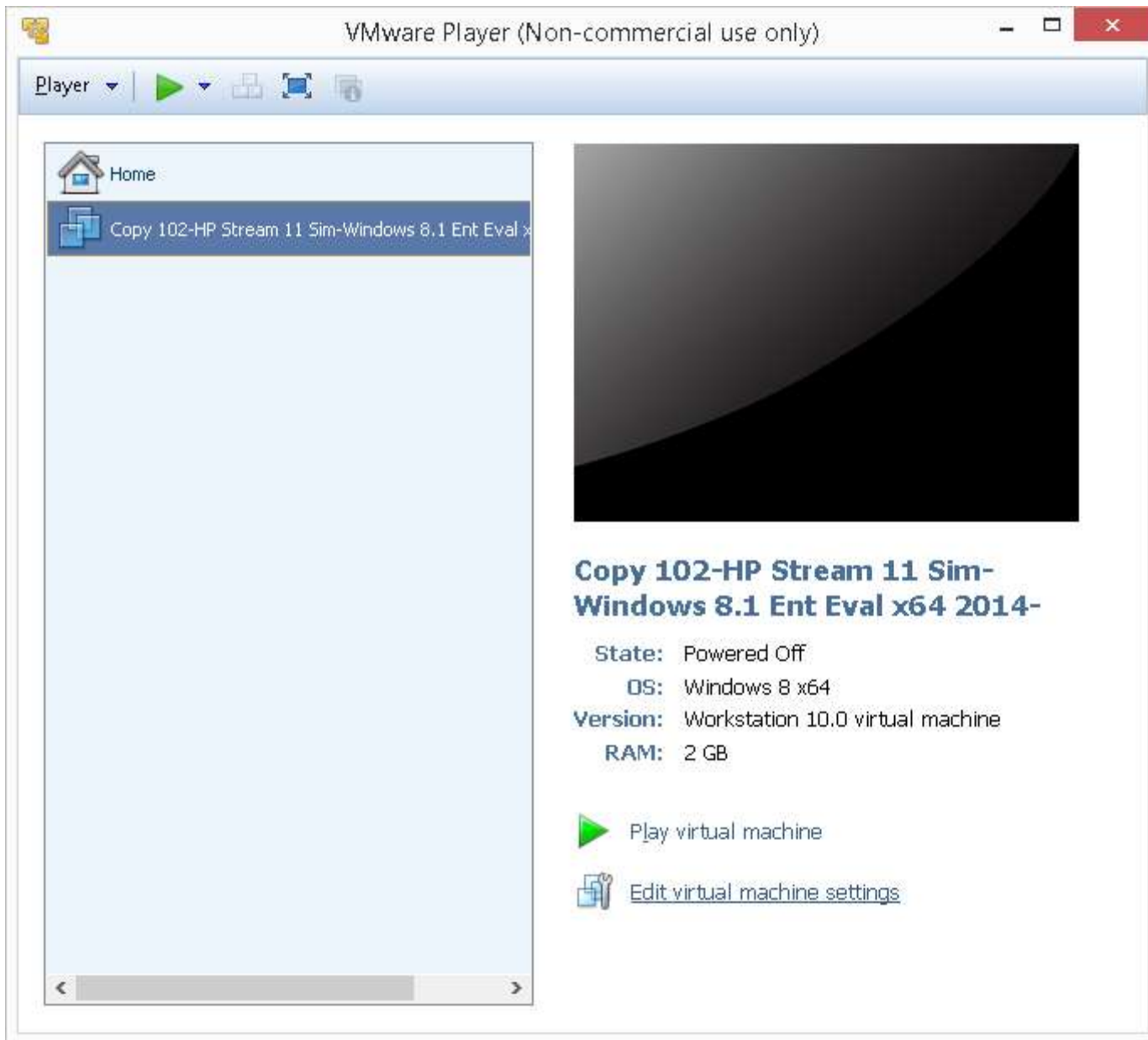
Memory

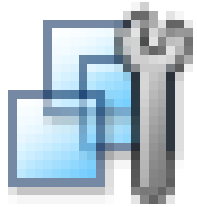
Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.

Memory for this virtual machine: MB



FINE TUNING THE NUMBER OF VIRTUAL PROCESSOR CORES FOR THE VIRTUAL MACHINE:





Edit virtual machine settings

Virtual Machine Settings

Hardware
Options
✕

Device	Summary
Memory	2 GB
Processors	1
Hard Disk (SCSI)	32 GB
Network Adapter	NAT
USB Controller	Present
Sound Card	Auto detect
Display	1 monitor

Add...
Remove

Memory

Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.

Memory for this virtual machine: 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.)
24384 MB








■ Recommended memory
2048 MB

■ Guest OS recommended minimum
1024 MB

OK
Cancel
Help








Hardware

Options

Device	Summary
 Memory	2 GB
 Processors	1
 Hard Disk (SCSI)	32 GB
 Network Adapter	NAT
 USB Controller	Present
 Sound Card	Auto detect
 Display	1 monitor

Hardware

Options

Device	Summary
	Memory
2 GB	
	Processors
1	
	Hard Disk (SCSI)
32 GB	
	Network Adapter
NAT	
	USB Controller
Present	
	Sound Card
Auto detect	
	Display
1 monitor	

Processors

Number of processor cores:

1



Virtualization engine

Preferred mode: Automatic



- Disable acceleration for binary translation
- Virtualize Intel VT-x/EPT or AMD-V/RVI
- Virtualize CPU performance counters

FINE TUNING THE NUMBER OF VIRTUAL PROCESSOR CORES FOR THE VIRTUAL MACHINE

- Use the benchmark values in published reviews to fine tune the number of virtual processor cores in the virtual machine:

INSTALLING (DESKTOP) SOFTWARE APPLICATION PROGRAMS INTO THE VIRTUAL MACHINE:

INSTALLING (DESKTOP) SOFTWARE APPLICATION PROGRAMS INTO THE VIRTUAL MACHINE

- Use the manufacturer's software specifications, published reviews, and users comments to determine what software to install into the virtual machine:

INSTALLING "WINDOWS STORE APPS" INTO THE VIRTUAL MACHINE:

INSTALLING "WINDOWS STORE APPS" INTO THE VIRTUAL MACHINE

- Use the manufacturer's software specifications, published reviews, and users comments to determine the "Windows Store Apps" to install into the virtual machine:

INSTALLING "WINDOWS STORE APPS" INTO THE VIRTUAL MACHINE (continued)

- "Windows Store Apps" are also called
"Metro Style Apps",
"Modern Apps",
"Universal Apps",
"Start Screen Apps",
and
"RT Apps".

MONITORING FREE SPACE ON THE VIRTUAL HARD DRIVE OF THE THE VIRTUAL MACHINE:

MONITORING FREE SPACE ON THE VIRTUAL HARD DRIVE OF THE VIRTUAL MACHINE

- All virtual machine programs do thin provisioning of virtual hard drives so do not use "Windows Explorer" or "File Explorer" or "Finder" or "Nautilus" in the real, host computer to monitor the disk space utilization in the virtual machine.

MONITORING FREE SPACE ON THE VIRTUAL HARD DRIVE OF THE VIRTUAL MACHINE (continue)

- Monitor the free hard drive space by using "Windows Explorer" or "File Explorer" from INSIDE" in the virtual machine:

Use the RIGHT mouse button to perform a click on virtual C: hard drive.

Then click on "Properties"

MONITORING FREE SPACE ON THE VIRTUAL HARD DRIVE OF THE VIRTUAL MACHINE (continue)

- Monitor the free hard drive space by using "Windows Explorer" or "File Explorer" from INSIDE" in the virtual machine:

Use the RIGHT mouse button to perform a click on virtual C: hard drive.

Then click on "Properties"¹₂.



Recycle Bin



CCleaner



McAfee
LiveSafe...

Windows 8.1 Enterprise Evaluation
Windows License valid for 85 days
Build 9600



Start Menu >>

Program File: ▲



8:53 PM
12/2/2014





This PC



File

Computer

View



This PC



Search This PC



★ Favorites

Desktop

Downloads

Recent places

OneDrive

This PC

Network

▲ Folders (6)



Desktop



Documents



Downloads



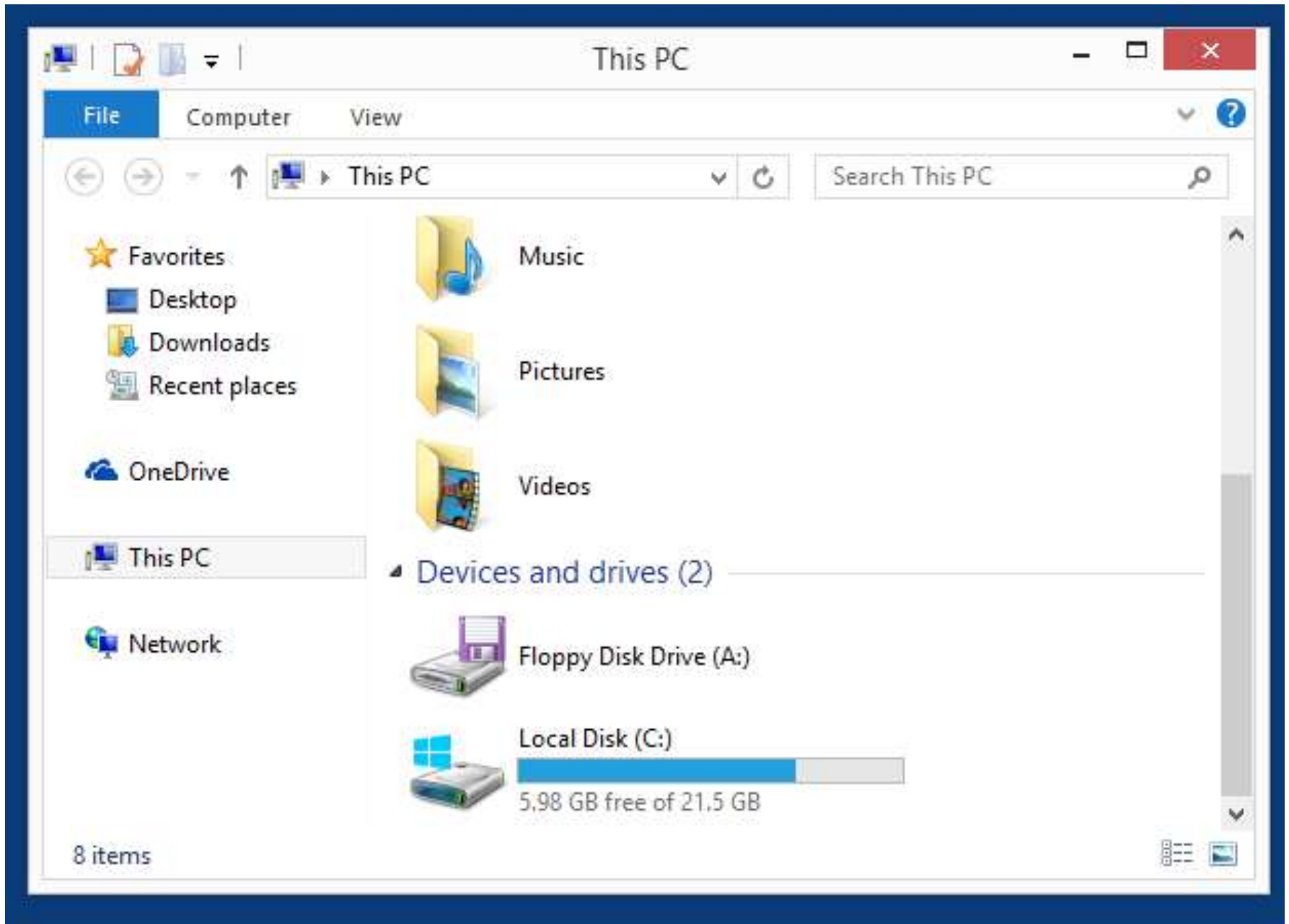
Music



Pictures

8 items







Local Disk (C:)



5.98 GB free of 21.5 GB

Computer

View

Manage

Open

Open in new window



Turn on BitLocker

Share with



Scan

Pin to Start

Format...

Copy

Create shortcut

Rename

Properties



5.98 GB free of 21.5 GB


Search This PC

Local Disk (C:) Properties

General Tools Hardware Sharing Security Quota

Type: Local Disk
File system: NTFS



Used space:	16,762,327,040 bytes	15.6 GB
Free space:	6,427,975,680 bytes	5.98 GB
Capacity:	23,190,302,720 bytes	21.5 GB



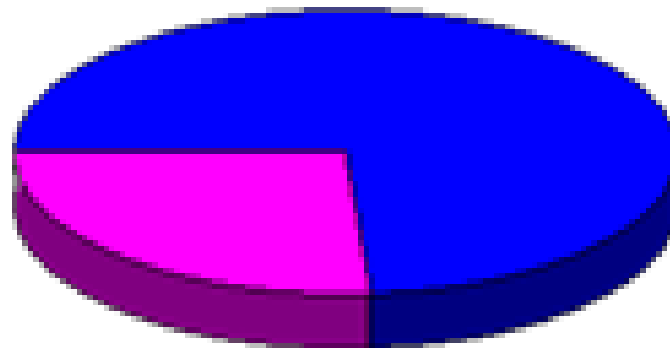
Drive C: Disk Cleanup

Compress this drive to save disk space
 Allow files on this drive to have contents indexed in addition to file properties

OK Cancel Apply

 Used space:	16,762,327,040 bytes	15.6 GB
 Free space:	6,427,975,680 bytes	5.98 GB

Capacity:	23,190,302,720 bytes	21.5 GB
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Drive C:

[Disk Cleanup](#)

REFERENCES

- http