INSTALLATION INSTRUCTIONS FOR THE CLOUDERA QUICKSTART VIRTUAL MACHINE

This guidance document presents how to establish the Cloudera QuickStart Virtual Machine (VM) in Oracle VirtualBox on a Microsoft Windows 10 host system. The guidance is divided into two parts. The first part goes over the Oracle VirtualBox installation. The second part covers the installation of the Oracle VirtualBox Extension Pack. The final part covers the import of the Cloudera QuickStart VM into Oracle VirtualBox. If you already have the software installed, you are strongly encouraged to still follow the steps in this document to upgrade the software to the latest version.

Part 1 – Oracle VirtualBox Installation

[1] Locate the latest version of Oracle VirtualBox for your computer's operating system from the following site:





[2] Click on the applicable link to initiate the download. Depending on how your Windows system is configured, the installation file will either automatically load into the **Downloads** folder or you will be prompted for a location to save the file.

Save As							×
← → ~ ↑ ↓	→ Th	is PC > Downloads	~	Ō	Search Downloads		Q
Organize 🔻 Ne	w fold	er					?
- Ouick access		Name	Date modified		Туре	Size	
Desktop		🦸 VirtualBox-6.1.4-136177-Win	4/2/2020 9:38 AI	N	Application	110,359	<b< th=""></b<>
 Downloads Documents Pictures This PC Network 	* *						
File name:	Virtua	Box-6.1.4-136177-Win					~
Save as type:	Appli	cation					~
∧ Hide Folders					Save	Cancel	

<u>Please note the Oracle VirtualBox version depicted in this</u> <u>document may not match the version you are downloading since</u> <u>the software is continuously upgraded</u>.

[3] Open the **File Explorer** application. In Windows 10, the program is located in **Start Menu --> Windows System --> File Explorer**.



[4] In **File Explorer**, navigate to the location the Oracle VirtualBox installation file was downloaded to. Right-click on the file with your computer mouse and select the **Run as Administrator** option from the right-click menu.



[5] You may see a **User Account Control (UAC)** verification prompt similar to that presented below. Click on the **YES** option to initiate the installation program.



[6] Click the **NEXT** button when the following window appears:



[7] The **Custom Setup** window will then appear. Leave the default options as is and click on the **NEXT** button to continue.

🖟 Oracle VM VirtualBox 6.1.4 Setup	Х
Custom Setup	
Select the way you want features to be installed.	
Click on the icons in the tree below to change the way features will be installed.	
Image: WirtualBox Application Oracle VM VirtualBox 6.1.4 Image: WirtualBox USB Support Oracle VM VirtualBox 6.1.4 Image: WirtualBox Networking Image: WirtualBox Ridger Image: WirtualBox VirtualBox Host-C Image: WirtualBox Host-C Image: WirtualBox WirtualBox Networking Image: WirtualBox Host-C Image: WirtualBox WirtualBox Host-C Image: WirtualBox Host-C Image: WirtualBox WirtualBox Networking Image: WirtualBox Host-C Image: WirtualBox WirtualBox Host-C Image: WirtualBox Host-C Image: WirtualBox WirtualBox Host-C Image: WirtualBox Host-C Image: WirtualBox WirtualBox Host-C Image: WirtualBox Host-C Image: WirtualBox Host-C	
subfeatures require 928KB on yo	
Location: C:\Program Files\Oracle\VirtualBox\ Browse	
Version 6.1.4 Disk Usage < Back Next > Cancel	

[8] A second **Custom Setup** window will then appear. Leave the default options as is and click on the **NEXT** button to continue.

d Oracle VM VirtualBox 6.1.4 Setup	×
Custom Setup	
Select the way you want features to be installed.	
Please choose from the options below:	
Create start menu entries	
Create a shortcut on the desktop	
Create a shortcut in the Quick Launch Bar	
Register file associations	
Version 6.1.4 < <u>B</u> ack <u>N</u> ext > <u>C</u> ancel	

[9] You'll then be presented with the warning prompt depicted below. Click on the **YES** button to continue.



[10] The **Ready to Install** window will appear. Click on the **INSTALL** button to execute the installation process.



[11] The installation process will then commence. A status screen similar to that below will appear. You may receive a "Would you like to install this device software?" prompt similar to that presented at the bottom of this page. Click on the INSTALL button to approve the driver installation.

	Oracle VM VirtualBox 6.1.4 Setup		-		×
	Oracle VM VirtualBox 6.1.4				
	Please wait while the Setup Wizard is take several minutes. Status: Updating component regis	nstalls Oracle VM VirtualBox zation	5. 1. 4. This	may	
	Version 6.1.4	< Back Nex	t>	Cano	el
= Wind	ows Security				
Would	you like to install this dev	vice software?			
	Name: Oracle Corporation Uni Publisher: Oracle Corporation	versal Serial Bus			
⊠ <u>A</u> lw	ays trust software from "Oracle C	orporation".	<u>I</u> nstall		Do <u>n</u> 't Install
Vou whice	should only install driver softwar ch device software is safe to insta	e from publishers yo II?	ou trust	. <u>How</u>	<u>can l decide</u>

[12] You will see the window below once the installation is complete. Check the "Start Oracle VM VirtualBox after Installation" item as shown below. Then click on the FINISH button to close out the installation program.



[13] The **Oracle VM VirtualBox Manager** application will then open. You can proceed to Part 2 (next page) of this guidance document.



Part 2 – Oracle VirtualBox Extension Pack Installation

[1] Locate the Oracle VirtualBox Extension Pack download from the following site:

https://www.virtualbox.org/wiki/Downloads

With your computer mouse, click on the "All Supported Platforms" link.

 	virtualbox.org/wiki/Downloads 🗖 🔂 🕫 🖈 🛃
Normal Rev	VirtualBox Download VirtualBox
	Here you will find links to VirtualBox binaries and its source code.
About	VirtualBox binaries
Screenshots	By downloading, you agree to the terms and conditions of the respective license.
Downloads Documentation	If you're looking for the latest VirtualBox 6.0 packages, see VirtualBox 6.0 builds. Please also use version 6.0 if you need to run VMs with software virtualization, as this has been discontinued in 6.1. Version 6.0 will remain supported until July 2020.
End-user docs Technical docs Contribute	If you're looking for the latest VirtualBox 5.2 packages, see VirtualBox 5.2 builds. Please also use version 5.2 if you still need support for 32-bit hosts, as this has been discontinued in 6.0. Version 5.2 will remain supported until July 2020.
Community	VirtualBox 6.1.12 platform packages
	 ▷ Windows hosts ▷ OS X hosts Linux distributions ▷ Solaris hosts
	The binaries are released under the terms of the GPL version 2.
	See the changelog for what has changed.
	You might want to compare the checksums to verify the integrity of downloaded packages. The SHA256 checksums should be favored as the MD5 algorithm must be treated as insecure!
	SHA256 checksums, MD5 checksums
	Note: After upgrading VirtualBox it is recommended to upgrade the guest additions as well.
	VirtualBox 6 1.12 Oracle VM VirtualBox Extension Pack



extension pack as your installed version of VirtualBox.

DOWNLOAD LINK Support for USB 2.0 and USB 3.0 devices, VirtualBox RDP, disk encryption, NVMe and PXE boot for Intel cards. See this chapter from the User Manual for an introduction to this Extension Pack. The Extension Pack binaries are released under the VirtualBox Personal Use and Evaluation License (PUEL). *Please install the same version*

[2] A "**Save As**" prompt will appear. Navigate to an accessible location on your computer and then click on the **SAVE** button to save the extension pack file.

💿 Save As			×	
← → ▼ ↑ 🔜 > This PC > Downloads > VirtualBox	ٽ ~			
Organize 🔻 New folder			EE 🛨 ?	
💻 This PC ^ Name ^ Date modified Type	Size			
💼 3D Objects No items match your search.				
🧮 Desktop				
😤 Documents				
🕹 Downloads				
h Music				
E Pictures				
📙 Shared Folders				
📳 Videos				
📙 ZADAR-BACKUF				
👱 ZADAR-DRIVE				
👱 ZADAR-MEDIA				
ZADAR-PROJEC: V				
File name: Oracle_VM_VirtualBox_Extension_Pack-6.1.12.vbox-extpack				ŗ
Save as type: VirtualBox Extension Pack (*.vbox-extpack)				ŗ.
∧ Hide Folders		Save	Cancel	

[3] Access the Windows File Explorer application and navigate to the location of the extension pack file. With your computer mouse, double-click on the Oracle VirtualBox Extension Pack file.



[4] You may receive the following prompt if you already have Oracle VirtualBox and the Oracle VirtualBox Extension Pack installed. If you receive this prompt, click on the **UPGRADE** button to perform the upgrade.



[5] You'll then see the VirtualBox license agreement screen. Scroll through and review the licensing information. Click on the **I AGREE** button to continue the installation.

💱 VirtualBox License

Licensed Third Party Technology. "Separately Licensed Third Party Technology" refers to third party technology that is licensed under Separate Terms and not under the terms of this Agreement.

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11

I Agree

I Disagree

[6] You may then receive a **User Account Control (UAC)** prompt similar to that presented below. Click on the **YES** button to continue the installation.



[7] You'll receive the following prompt once the installation has finished. Click on the **OK** button to close out the prompt.

VirtualBox - Information ? × Image: Constant of the extension pack or accle VM VirtualBox Extension Pack was installed successfully. >			
1	The extension pack Oracle VM VirtualBox Exten was installed successfully.	nsion Pa	ck
	OK		

Part 3 – Cloudera QuickStart VM Installation

[1] Using a web browser like Google Chrome or Mozilla Firefox, download the Cloudera QuickStart VM Version 5.13 archive file via one of the following links:

https://downloads.cloudera.com/demo_vm/virtualbox/cloudera-quickstart-vm-5.13.0-0-virtualbox.zip

OR

https://ist2w.purdueglobal.edu/iso/cloudera-quickstart-vm-5.13.0-0-virtualbox.zip

Depending on how your Windows system is configured, the archive file will either automatically load into the **Downloads** folder or you will be prompted for a location to save the file. Save the file to an accessible folder location on your computer (e.g., **Documents, Downloads**, etc.). The archive file is approximately 6 GB in size. The amount of time it takes for the download to complete is dependent on broadband speed.

Opening cloudera-o	uickstart-vm-5.13.0-0-virtualbox.zip	×		
You have chosen to open:				
🔢 cloudera-qu	ickstart-vm-5.13.0-0-virtualbox.zip			
which is: Co	mpressed (zipped) Folder (5.5 GB)			
from: https:/	/ist2w.purdueglobal.edu			
What should Firefox do with this file?				
O Open with	Windows Explorer (default) ~			
Save File				
Do this <u>a</u> uto	matically for files like this from now on.			
	OK Cancel			

[2] Open the **File Explorer** application. In Windows 10, the program is located in **Start Menu --> Windows System --> File Explorer**.



[3] In **File Explorer**, navigate to the location the Cloudera QuickStart VM archive file was downloaded to. Right-click on the file (**cloudera-quickstart-vm-5.13.0-0-virtualbox.zip**) with your computer mouse and select the **Extract All...** option from the right-click menu.



[4] You'll then be prompted for an extraction location. You can accept the specified default location or change it to a personal preference. Please make sure you note where the archive contents are extracted to. Click on the **EXTRACT** button to initiate the extraction process.

			×
~	Extract Compressed (Zipped) Folders		
	Select a Destination and Extract Files		
	Files will be extracted to this folder:		
	C:\Users\student\Downloads\cloudera-quickstart-vm-5.13.0-0-virtualbox	Browse	
	☑ Show extracted files when complete		
	E	xtract C	ancel

[5] You'll then be presented with an extraction progress bar. The total time to complete the extraction process is dependent on system capabilities.



[6] Once the extract progress is complete, a new **File Explorer** window will appear showing the extracted contents. Double-click on the **cloudera-quickstart-vm-5.13.0-0-virtualbox** folder to view its contents.



[7] There should be two files contained within the **clouderaquickstart-vm-5.13.0-0-virtualbox** folder. The first item is an open virtualization format (OVF) file that contains information on the virtual machine. The second item contains the virtual machine's storage component in virtual machine disk format (VMDF).



[8] Open the Oracle VirtualBox Manager application. In Windows 10, the program is located in Start Menu --> Oracle VM VirtualBox --> Oracle VM VirtualBox.



[9] In the Oracle VM VirtualBox Manager window, click on the File --> Import Appliance... option from the top menu.



[10] You will now be presented with the Import Virtual Appliance window. The source should be set to the Local File System option. Click on the folder icon (☑) located on the right side of the File text field.



[11] An import file selection window will then appear. Navigate to the folder storing the OVF file denoted in Step 7. Select the OVF file and click the **OPEN** button.



[12] The **File** text field of the **Import Virtual Appliance** window will now show the OVF file along with its directory path. Click on the **NEXT** button to continue.

Import	Virtual Appliance
Applian	ice to import
Please ch VM from.	oose the source to import appliance from. This can be a local file system to import OVF archive or one of known cloud service providers to import cloud
Source:	Local File System 🔻
Please ch continue, File:	oose a file to import the virtual appliance from. VirtualBox currently supports importing appliances saved in the Open Virtualization Format (OVF). To select the file to import below.
	Expert Mode Next Cancel

[13] The **Appliance Settings** window will then appear showing the Cloudera QuickStart VM settings. Leave the default options as is and click on the **IMPORT** button to launch the VM import process.

←	Import Virtual Appliance		
	Appliance settings		
	These are the virtual machines cont properties shown by double-clicking	ained in the appliance and the suggested settings of the imported Virtual on the items and disable others using the check boxes below.	Box machines. You can change many of the
	Virtual System 1		
	😽 Name	cloudera-quickstart-vm-5.13.0-0-virtualbox	
	🚼 Guest OS Type	🐸 Red Hat (64-bit)	
	CPU	1	
	RAM	4096 MB	
	OVD		
	Network Adapter	Intel PRO/1000 MT Desktop (82540EM)	
	🔷 Storage Controller (IDE)	PIIX4	
	🗸 🔷 Storage Controller (IDE)	PIIX4	
	🧕 Virtual Disk Image	cloudera-quickstart-vm-5.13.0-0-virtualbox-disk1.vmdk	
	Base Folder	C:\Users\student\VirtualBox VMs	
	🔞 Primary Group	1	
	Machine Base Folder:	\student\\VirtualBox VMs	
	MAC Address Policy: Include only	VAT network adapter MAC addresses	•
	Additional Options: 🗹 Import ha	d drives as VDI	
	Appliance is not signed		
			Restore Defaults Import Cancel

[14] You'll then be presented with the appliance import progress bar. The total time to complete the import process is dependent on system capabilities. The progress bar will disappear once the import process is complete.



[15] Following the import process, the Oracle VM VirtualBox Manager window will show the newly imported Cloudera QuickStart VM in the inventory list located in the left window pane. Highlight or select the Cloudera QuickStart VM entry and then select the START button to boot-up the VM.



[16] The VM will begin to boot-up in a new window as depicted below.



[17] The VM will automatically login as the "**cloudera**" user. The username/password for applications within the VM are as follows:

Username: cloudera Password: cloudera

The Mozilla Firefox browser will automatically open during startup displaying a welcome message similar to that illustrated below. This indicates the VM booted properly.

Note: Cloudera-quickstart-vm-5.13.0-0-virtualbox [Running] - Oracle VM VirtualBox			-	
File Machine View Input Devices Help	: do 🛲	Thu Apr 2	7:02 PM	cloudera
Cloudera Live : Welcome! - Cloudera Live Beginn	ner Tutorial - M	lozilla Fire	fox	
Cloudera Live : Welcom × Cloudera Live : Welcom ×				
♦ @ quickstart.cloudera/#/	earch	☆ 自	•	» =
Oloudera ⊗ Hue ■ Hadoop → ■ HBase → ■ Impala → ■ Sp	ark∨ ⊛Solr (0ozie 🛞	Cloudera N	lanager »
Cloudera LIVE Navigation -				P
Welcome to Your Cloudera Quick	Start VN	1!		=
Your Cluster				
Node	Address			
Manager Node	10.0.2.15			
Worker Node 1	10.0.2.15			
Cloudera INT Control Get Started				
🕘 Cloudera Live : Welco				

[17] You now need to install VirtualBox Guest Additions functionality in the Cloudera virtual machine. In the top menu of the virtual machine window, select DEVICES→INSERT GUEST ADDITIONS CD IMAGE.

著 clou	dera (Baselin	e) [Running]	- Ora	icle VM	/I VirtualBox		_											×
File M	lachine Vie	w Input	Devic	ces H	Help													
👫 Ap	plications	Places	•	Optica	al Drives		-				4) 🛃 🕻		Sat J	ul 18,	20:57	clo	udera
			₽.	Netwo	ork		<u> </u>							_				
	٢	Cloud		Shared	d Folders		-	.ive B	leginr	ner Tu	torial -	Mozilla	Fir	efox		_ □	×	
	Cloud	lera Live :		Shared	d Clipboard		→											
	(🔶 🌚	quicksta	S	Drag a	and Drop		-	C	Q S	earch		☆	Ê		+	>>	≡	
	Claure		8	Insert	Guest Addition	s CD image			Bc -		() Cala	@ 0i	- 0	Class				
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	Your	Cluster																
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🕖 C	loudera Li	ve : Welco														(
Insert the	e Guest Addit	ions disk file	into t	, the virt	tual optical driv	e								0 🗗		- 21 🔊	💽 Rig	ht Ctrl

[18] You may then see the following prompt. Click on the **CANCEL** button to close out the prompt.



[19] On the Linux desktop, double click on the drive folder with the name starting with "**VBox_Gas**" and depicted with a CD-ROM icon.



[20] The "VBox_Gas" drive folder will appear. In the top menu, select **FILE→OPEN IN TERMINAL** option.

<u> </u>	VBox_GAs_6.1	.12	_
File Edit View Places Help			
Create Folder	Shift+Ctrl+N		Open Autorun Prompt
Create Document	>		[
Open Parent	Alt+Up		
Open Location	Ctrl+L		
Connect to Server		OS2	autorun.sh
Unmount		F AUT	
Eject		D CER D NT3	
Properties	Alt+Return	TRANS.TBL	VBoxDarwinAdditio ns.pkg
Open in Terminal			
Open in Midnight Commander			
Close Parent Folders	Shift+Ctrl+W	xSolarisAdditio	VBoxWindowsAdditi
Close All Folders	Ctrl+Q	ns.pkg	ons.exe
Close	Ctrl+W		
	2		
VBoxWindowsAdditi VBoxWindo	owsAdditi		
ons-amd64.exe ons-x8	b.exe		
■ VBox_GAs_6.1.12 マ 14 items			

[21] A Terminal window will then appear. Execute the following statement at the Linux command prompt:

sudo ./VBoxLinuxAdditions.run

Hit the **ENTER** key after entering the above statement.



[22] The installation process will begin. Accept the defaults if prompted for any options.

E cloudera@quickstart:/media/VBox_GAs_6.1.12 _ □ ×	
File Edit View Search Terminal Help	
[cloudera@quickstart VBox_GAs_6.1.12]\$ sudo ./VBoxLinuxAdditions.run	~
Verifying archive integrity All good.	
Uncompressing VirtualBox 6.1.12 Guest Additions for Linux	
VirtualBox Guest Additions Installer Removing installed version 5.0.14 of VirtualBox Guest Additions	
Stopping VirtualBox Additions	
(Cannot unload module vboxquest)	
Removing existing VirtualBox DKMS kernel modules [OK]	
Removing existing VirtualBox non-DKMS kernel modules [OK]	
Stopping VirtualBox Guest Addition service [OK]	
Copying additional installer modules	
Installing additional modules	
VirtualBox Guest Additions: Starting.	Ξ
virtualBox Guest Additions: Building the virtualBox Guest Additions Kernel	
NictualBox Guest Additions: To build modules for other installed kernels run	
VirtualBox Guest Additions: /shin/rcvboxadd quicksetup <version></version>	
VirtualBox Guest Additions: or	
VirtualBox Guest Additions: /sbin/rcvboxadd guicksetup all	
VirtualBox Guest Additions: Building the modules for kernel	
2.6.32-573.el6.x86_64.	

[23] Enter the following statement at the Linux command prompt to reboot the virtual machine after the guest additions installation has completed:

sudo shutdown -r 0

Hit the **ENTER** key after entering the above statement.



[24] The Cloudera Quickstart virtual machine will then reboot with the newly installed Oracle VirtualBox Guest Additions functionality.

[25] You can resize the VM window by selecting the applicable option within the **VIEW-->VIRTUAL SCREEN** section as depicted below. You will be ready to commence with the applicable coursework after adjusting the screen size.

Cloudera-quickstart-vm-5.13.0-0-virtualbox [Running] - Or	racle VM VirtualBox — 🗆 🗙
File Machine View Input Devices Help	
nost+F 📄 Full-screen Mode Host+F	🕼 🛃 Thu Apr 2, 7:05 PM cloudera
Browse and r 🖳 Seamless Mode Host+L	era Live Beginner Tutorial - Mozilla Firefox 🛛 💷 🗙
Cloudera L Scaled Mode Host+C	/elcom × 中
Adjust Window Size Host+A	
Auto-resize Guest Display	C Q Search ☆ ■ ● ◆ >
Cloudera Pake Screenshot Host+E	🛛 Impala 🗸 📋 Spark 🗸 🖪 Solr 🕘 Oozie 🕘 Cloudera Manager 🔹
Recording	A
CIOU 📃 Remote Display	on 👻
🔲 Menu Bar 🕨	
Status Bar	- · · · · · · · · · · · · · · · · · · ·
Welco	Ira OuickStart VM!
Vitual Screen 1	Resize to 640x480
Your Cluster	Resize to 300X000
Nada	Resize to 1152v864
Node	Resize to 1280x720
Manager Node	Resize to 1280x800 2.15
Moder Nada 1	Resize to 1366x768
worker Node 1	2.15 Resize to 1440x900
	Resize to 1600x900
	Resize to 1680x1050
	Resize to 1920x1080
	Resize to 1920x1200
dia v With Marker V and Marker V Get Sta	Scale to 100%
seals in Arth Salaway 51 - Happin Status (J. Arthough Salaway) (Houses, 199,3 - Assertion Annual Annual Annual Annual Annual Annual (Houses, 199,3 - Assertion Annual A	Scale to 125%
📵 Cloudera Live : Welco	Scale to 150%
	Scale to 175% 🛛 🕑 🕢 🖓 💷 🕮 🕼 🚫 👽 Right Ctrl 🚊

[26] You will likely need to copy text and files between your host computer and the Cloudera QuickStart appliance. To be able to do this, you will need to change the "Drag and Drop" and "Shared Clipboard" settings. Access DEVICES --> SHARED CLIPBOARD in the top menu of the virtual machine window and select the "Bidirectional" option. Then access DEVICES --> DRAG AND DROP in the top menu of the virtual machine window and select the "Bidirectional" option.

🔁 cloudera-quickstart-vm-5.13.0-0-virtualbox [Running] - Oracle VM VirtualBox

File	Machine	View	Input	Devices	5 Help			
				 O 	ptical Drives	×	1	
				🗗 N	etwork	+		
				🔲 Sh	nared Folders	•		
				💾 Sh	ared Clipboard	•		Disabled
				🛐 Dr	rag and Drop	•		Host To Guest
				🥜 In	sert Guest Additions CD image			Guest To Host
				·		-	•	Bidirectional

🚰 cloudera-quickstart-vm-5.13.0-0-virtualbox [Running] - Oracle VM VirtualBox

File	Machine	View	Input	Devices	Help		
				 Opt 	ical Drives	•	
				🗗 Net	Network		
				📃 Sha	red Folders	•	
				📋 Sha	red Clipboard	►	
				🔂 Dra	g and Drop	•	Disabled
				anse 🖉	ert Guest Additions CD image		Host To Guest
				Ť.	,,,,,,,, .		Guest To Host
						•	Bidirectional

[27] To close your Cloudera Quickstart appliance, select the FILE --> CLOSE option from the top menu of the virtual machine window. You will then be prompted to select a closeout option. Select the "Save the machine state" option and click on the OK button.

🔁 cl	oudera-quic	kstart-v	m-5.13.0)-0-virtualk	oox [Run						
File	Machine	View	Input	Devices	Help						
S	Preferences										
2	Network Operations Manager										
Δ	Reset All Wa	arnings									
\bigtriangledown	Close			Ho	st+Q						
2	Close Virtu	ial Macł	nine	?	×						
64	You w	ant to:									
	Save the machine state										
	💋 🔿 Send the shutdown signal										
	O Power off the machine										
[OK	Ca	ncel	Help							

The Oracle VirtualBox Manager application will show the appliance as being in a "Saved" state. This will allow you to quickly restart the appliance when needed.

