# Virtual Appliance Installation VIVO 1.2 (Windows)

Deprecated. This material represents early efforts and may be of interest to historians. It doe not describe current VIVO efforts.

note Some of the content on this page refers to VIVO 1.2 and earlier releases. Please see VIVO v1.3 VirtualBox Appliance for additional information.

### Introduction

The following procedure will allow you to quickly deploy a running instance of VIVO for testing and evaluation purposes only. To make deployment easy, we built a preconfigured virtual appliance. It has been built and configured with all the required software and should run VIVO with little configuration. VirtualBox, a free virtualization tool distributed by Oracle is required. The operating system of the appliance is Linux (Debian Lenny). You will need to make a few minor configuration changes using the command line after your installation is complete. For more information and tutorials on VirtualBox, visit http://www.virtualbox.org/wiki/VirtualBoxTV.

### System Requirements

VirtualBox can be installed on most operating systems. The following are some general system requirements:

- Windows XP, Vista or Windows 7
- Mac OS 10.4 or newer
- Linux
- 2GB RAM
- 10GB Free Disk Space

### Install VirtualBox

Download the latest VirtualBox EXE from http://www.virtualbox.org/wiki/Downloads Install the software by double-clicking the executable file for Windows.



Click the button indicating you want to Run VirtualBox. Warnings may appear which alert you when downloading files from the Internet.

	File Download - Security Warning	3		
1	Do you want to run or save this file?			
	Name: VirtualBox-3.1.2-56127-Win.exe Type: Application, 71.5MB From: dlc-cdh-rd.sun.com Bun Save Cancel			
	While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. <u>What's the risk?</u>			

If you do not have administrator rights on your computer, you must log out of your machine and log back into the computer as an administrator.



Once the file is downloaded, the VirtualBox Setup Wizard will guide you in completing the installation.

🕼 Sun VirtualBox Setup		🐻 Sun VirtualBox License Agreement 🛛 🛛 🛛
MY	Welcome to the Sun VirtualBox Setup Wizard	End-User License Agreement Please read the following license agreement carefully.
	The Setup Witard will install Sun VetualBox on your computer. Click Next to continue or Cancel to exit the Setup Witard.	VirtualBox Personal Use and Evaluation License (PUEL) License version 7, September 10, 2008 SUN MICROSYSTEMS, INC. ("SUN") IS WILLING TO LICENSE THE PRODUCT (AS DEFINED IN § I BELOW) TO YOU ONLY UPON THE CONDITION THAT YOU ACCEPT ALL OF THE TERMS CONTAINED IN THIS VIRTUALBOX PERSONAL USE AND EVALUATION LICENSE ACREEMENT ("AGREEMENT"). PLEASE READ THE AGREEMENT CAREFULLY, BY DOWNLOADING OR INSTALLING THIS PRODUCT, YOU
Version 3.1.2	C.Next S. Cancel	Version 3.1.2     < Back

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Please choose from the options below: Create a shortout on the desitop: Create a shortout in the Quick Launch Bar	Otk on the icons in the tree below to change the way features will be installed.         Image: State of the icons in the tree below to change the way features will be installed.         Image: State of the icons in the tree below to change the way features will be installed.         Image: State of the icons in the tree below to change the way features and the icons in the tree below to change the way features and the icons in the icons
Version 3.1.2 < Back Rest > Cancel	Version 3.1.2 Disk Usage < Book Rest > Cancel

The installation may temporarily disrupt your network connection. Connection should be restored momentarily.



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Ready to Install The Setup Waard is ready to begin the Custom installation.	Sun VirtualBox
Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wisend.	Please wait while the Setup Wizard installs Sun VirtualBox. This may take several minutes.
Version 3.1.2 < Back	Version 3.1.2



When the VirtualBox installation is complete, the application will open. You may minimize the application until after the next step.

🗣 Sun VirtualBox	
File Nachine Help	
New Settings Start Discard	Details         Supported         Description           Welcome to VirtualBox!         The left part of this windows is let of all virtual machines on your computer. The left part of the window is a let of all virtual machines yet.         The original comparison of the window is a let of all virtual machines yet.           In order to create a new virtual machine, press the New button in the main tool har located at the top of the window.         You can press the F1 leav to get instant help, or visit www.wirtualbox.org for the latest information and news.

## Download and Install Virtual Appliance

The current release/version of VIVO is updated on a Virtual Appliance located at VIVO Downloads. It contains all the existing functionality and pre-loaded VIVO ontology.

#### **Download the Virtual Appliance**

Open your internet browser and download the zip package from the site.

#### **VIVO Virtual Appliance**

WVO can also be installed as a virtual appliance into Oracle VirtualBox, which is virtualization product for enterprise or personal use. The virtual appliance enables easy installation of VIVO on a Windows, Mac or Linux desktop in approximately 15 minutes for evaluation and testing purposes. See the <u>installation Documentation</u> for help installing the virtual appliance.

File	Version	Size	Date
rel-1.0va.zip	1.0	1.5 GB	04-17-2010
rel-1.0va.tar.gz	1.0	1.5 GB	04-17-2010
rel-0.9va.zip	0.9	1.4 GB	02-02-2010
rel-0.9va.tar.gz	0.9	1.4 GB	02-02-2010

Therefore, the system would need to be properly secured.

Save the files to any location on your computer. The Desktop is an easy place to locate these files for later use

File Download	
Do you want to save it? Name: rel Type: U	this file, or find a program online to 0.9va.tar.gz
From: m	File Download 🛛 🔀
While files from harm your com program to ope	Do you want to open or save this file?         Name: rel-0.9va.zip         Type: Compressed (zipped) Folder, 1.3268         From: mmrcr.ctrlp.ufl.edu         Open       Save         Always ask before opening this type of file
	While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not open or seve this file. What's the risk?

The files are rather large and may take more than 10 minutes to download.

3% of rel-0.9va.tar.	gz from mirror.ctrip.ufl
rel-D. 9va.tar.gz from m Estimated time left 17 r Download to: C:\1 Transfer rate: 1.2	2% of rel-0.9va.zip from mirror.ctrip.ufl.ed
	Estimated time left 11 min 30 sec (28.8MB of 1.32GB copied)     Download to: C:\Documents and S\rel-0.9va.zip     Transfer rate: 1.90MB/Sec     Ilose this dalog box when download completes     Doen OpenEdder Cancel

Once downloaded, you must extract the files contained in the zip package. It is best to save the files in the same location as the download.

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Folder Tasks
Extract all files vibro_1.vmdk vibro-rel-0
Other Places
Desktop     My Documents     My Network Places
Details

Import the Appliance into VirtualBox

Once the Virtual Appliance has been downloaded, you can return to the VirtualBox application.

Click, File >> Import Appliance



Click Choose to locate the file on your computer.

Appliance Import Wizard 🛛 📝 🔀			
Welcome to the Appliance Import Wizard!			
	This whard will guide you through importing an appliance. Use the Next button to go the next page of the whard and the Back button to return to the previous page. WrtualBox currently supports importing appliances saved in the Open Virtualization Format (OVF). To continue, select the file to import below: <a href="mailto:shoose">Choose</a>		
	< Back Next > Cancel		

Locate the .ovf file extracted from the zip package and click Open then Next.

Select an appli	ance to import	? 🗙
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My Recent Documents	Extronal-0.9.ovf	
🧭 My Documents		
My Computer		
<b>N</b>		
My Network Places	File pame:     vitro-rel-0.9. ovf       Files of type:     Open Virtualization Format (*.ovf)	<u>O</u> pen Cancel

Adjust the resources if you wish. You can increase RAM or CPU for improved performance. You can uncheck Floppy, USB Controller, and Sound Card since they will not be used Click Import

🕈 Appliance Import Wizard 🛛 🔹 😰				
Appliance Import Settings				
	These are the virtual machines contained in the applance and the suggested settings of the imported VirtueBox machines. You can change many of the properties shown by double-clicking on the items and disable others using the check boxes below.			
	Description	Configuration		
	Virtual System 1			
	- 🎲 Name	vitro-rel-0.9		
	Description	vitro test virtual appliance		
	Guest 05 Type	🔀 Debian		
	💭 OU	t		
	I RAM	256 MB		
4	- 🕕 DVD			
	- 🧬 Network Adapter	PCnet-FAST 111 (Am79C973)		
	🗄 🔷 Hard Disk Controller (IDE)	PI1X4		
	🤤 🔐 Virtual Disk Image	C:\Documents and Settings\ehbrooks\.Virtu		
Restore Defaults		<back import=""> Cancel</back>		

Importing the appliance may take several minutes as indicated by the status bar.

Importing Appliance: Import appliance 'C:\Documents and Settings\ehb	rooks	De
Importing virtual disk image 'C:\Documents and Settings\ehbrooks\DesktopiyeH0.9va\vitro_t.v  A minutes remaining	mdk' 5%	(2 2) X

Once imported, the virtual appliance will appear in VirtualBox.

NOTE: You may now delete the downloaded files from your computer



### **Configure Networking**

note|This refers to Virtualbox < 4.0. For the new way to forward ports in Virtualbox > 4.0 please follow this
guide: http://www.rustyrazorblade.com/2010/12/virtualbox-4-nat-port-forwarding-gui/

There are a few configuration changes that need to be made using the command line in order for the VIVO virtual appliance to function properly.

Go to the Start menu on your computer and click Run...

Type 'cmd' and click OK to open a command prompt

Run 🤶 🔀
Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:
OK Cancel Browse

Copy and enter the following codes one at a time. Each command should appear on one line.

Your path may be different, but is typically on the C drive.

Make sure the text that says "rel-1.0va" is replaced with the name of your virtual box virtual machine, otherwise you will not be able to browse to your vivo.

You will need to Navigate to the VitrualBox installation directory, C:/Program Files/Oracle/VirtualBox/ by default.

• "C:/Program Files/Oracle/VirtualBox/"

VBoxManage setextradata "vivo-rel-1.2-vm" "VBoxInternal/Devices/pcnet/0/LUN#0/Config/apache/Protocol" TCP

VBoxManage setextradata "vivo-rel-1.2-vm" "VBoxInternal/Devices/pcnet/0/LUN#0/Config/apache/GuestPort" 8080
VBoxManage setextradata "vivo-rel-1.2-vm" "VBoxInternal/Devices/pcnet/0/LUN#0/Config/apache/HostPort" 8080
To add SSH access (OPTIONAL) add the following
VBoxManage setextradata "vivo-rel-1.2-vm" "VBoxInternal/Devices/pcnet/0/LUN#0/Config/ssh/Protocol" TCP
VBoxManage setextradata "vivo-rel-1.2-vm" "VBoxInternal/Devices/pcnet/0/LUN#0/Config/ssh/GuestPort" 22

VBoxManage setextradata "vivo-rel-1.2-vm" "VBoxInternal/Devices/pcnet/0/LUN#0/Config/ssh/HostPort" 22

Return to VirtualBox and click on the Settings icon.

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Go to Network >> Adapter 1>> Advanced >>Mac Address: Change the Mac Address to: 080027912706 And click OK.

E General	Network	
<ul> <li>Display</li> <li>Display</li> <li>Storage</li> <li>Audio</li> <li>Network</li> <li>Serial Ports</li> <li>Serial Ports</li> <li>Use</li> <li>Shored Folders</li> </ul>	Adapter 1 Adapter 2 Adapter 3 Adapter ± Enable Network Adapter  Agtached to: NAT  Igame:  Adapter 2  Adapter 2  Mar Adapter 2  Mar Address: 0800276354E4  S Gable connected	
	Select a satisfings category from the left on the left-hand side and move the mouse over Kem to get more information.	a seltings

Now start the virtual machine in VirtualBox.

You should see a window showing the operating system starting up.

It is not necessary to login to the console at this time.



## Testing

#### **Tomcat Server**

Tomcat should now be running in the virtual appliance.

You should be able to use your local web browser to access the administrative interface at:

When prompted for a login enter,

Username: *vitro* Password: *vitro123* 

Connect to loo	calhost 🛛 🛛 🛛 🔀
	Ger
The server local username and p Warning: This se password be ser	host at Tomcat Manager Application requires a assword. erver is requesting that your username and nt in an insecure manner (basic authentication
without a secure User name: Password:	e connection).
	Remember my password     OK Cencel

Upon login, you should see the Tomcat Web Application Manager

Please note, you may experience a problem accessing the interface using "localhost".

If so, try using http://127.0.0.1:8080/manager/html/list instead.

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#### Vitro

Accessing http://localhost:8080/vivo should load the VIVO homepage.

Click on Login in the upper right corner and use the default username and password:

Username: *defaultAdmin* Password: *vitro123* 



Please note, you may experience a problem accessing the interface using "localhost". If so, try using http://127.0.0.1:8080/vivo instead. You can now use the virtual appliance to evaluate and perform tasks in VIVO.

### Virtual Appliance Security Cleanup

If you plan on using the appliance in a production environment, it is very important that you change the default passwords in the appliance for security purposes. The passwords you should change are:

- Unix root user
- Unix vitro user
- · Tomcat admin user
- MySQL root user
- MySQL vivoweb user
- Vitro defaultAdmin user