OCS Virtual image

User guide

Version: 1.8

Publication date: 16/11/2015

Table of Contents

1. Introduction
2. The OCS virtualized environment composition 2
3. What do you need? 2
4. Software installation
4.1 VirtualBox installation
4.2 Importing the OCS virtual image6
5. OCS configuration
5.1 Running the OCS virtual machine9
5.2 Stopping the OCS virtual machine10
5.3 Initializing the OCS environment11
5.3 Test your application 11
5.4 Glassfish notes
5.4.1 Administrator account
5.4.2 Change the administrator account13
6. Accessing your files
7. Hardware specifications

1. Introduction

The current guide explains how to use the virtualized OCS environment.

The main goal of the OCS virtualized version is to provide an entire OCS environment installed and preconfigure.

It gives the possibility to a user, with a minimal IT knowledge, to test the OCS application.

It's up to you to modify the defined configuration and fit it to your specific needs.

2. The OCS virtualized environment composition

The OCS virtualized environment is composing by:

- A Linux server (Ubuntu server 12.4.1 LTS <u>http://www.ubuntu.com/</u>).
- A preconfigure open source database (MySql <u>http://dev.mysql.com/downloads/</u>).
- An open source java application server (Glassfish <u>http://glassfish.java.net/</u>)
- The OCS application (Viking edition <u>https://joinup.ec.europa.eu/software/ocs/release/all</u>).

Additionally, a SSH and SFTP connections are configure to let you access the Linux server.

3. What do you need?

In order to use the OCS Virtualized environment, you must download and install VirtualBox (<u>https://www.virtualbox.org/</u>). VirtualBox is a virtualization product running in Windows, Linux, OSX, and Solaris.

You must also download and install the OCS virtual machine (ocs-vm) from Joinup. (<u>https://joinup.ec.europa.eu/software/ocs/release/all</u>).

4. Software installation

4.1 VirtualBox installation

To install VirtualBox, run the installer you have previously downloaded. Follow the steps displayed on the installation window.



Figure 1 VirtualBox installation wizard

Don't custom the installation.

B Oracle VM VirtualBox 4.2.4 Setup	X
Custom Setup Select the way you want features to be installed.	
Click on the icons in the tree below to change the w	vay features will be installed.
▼ VirtuaBox Application ▼ VirtuaBox USB Support ▼ VirtuaBox Networking ▼ VirtuaBox Python 2.x Su <	Orade VM VirtualBox 4.2.4 application. This feature requires 126MB on your hard drive. It has 3 of 3 subfeatures selected. The subfeatures require 768KB on yo
Location: C:\Program Files\Orade\VirtualBox\	Browse
Version 4.2.4 Disk Usage < B	ack Next Cancel

Figure 2 click on next

If you receive a warning about the network interfaces, accept it and proceed with the installation.



Figure 3 select "yes"

During the installation, you will receive notifications about the installation of additional components (USB, network service).

Accept the installation of those components.



Figure 4 install the universal serial bus



Figure 5 install the network service

At the end of the installation, check the start option and finish the installation process.



Figure 6 check the start Oracle VM VirtualBox

VirtualBox is started.



Figure 7 VirtualBox manager is started

4.2 Importing the OCS virtual image

In order to use the OCS virtualized environment, you must import the OCS virtual machine (*ocs-vm.ova* file) in the VirtualBox manager.

Start the VirtualBox manager (see figure 7).

In the file menu, select "import Appliance".

ĝ 0	racle VM VirtualBox Mana	iger	
<u>F</u> ile	<u>M</u> achine <u>H</u> elp		
5 h	ќ⊻irtual Media Manager	Ctrl+D	
	Import Appliance	Ctrl+I	Details 💷 Snapshots
	Export Appliance	Ctrl+E	
ÿ	Preferences	Ctrl+G	rtualBox! window is a list of all virtual machines on your computer. The list is empty now because you haven't
	Exit	Ctrl+Q	machines yet.
	l a	In order to create a at the top of the wi	new virtual machine, press the New button in the main tool bar located ndw.
	Y ii	You can press the F information and nev	1 key to get instant help, or visit www.virtualbox.org for the latest NS.

Figure 8 go to the file menu to import appliance

In the import appliance window, select "Open Appliance".

Import Virtual Applicance
Appliance to import
VirtualBox currently supports importing appliances saved in the Open Virtualization Format (OVF). To continue, select the file to import below.
Open appliance
Hide Description Next Cancel

Figure 9 open appliance

Select the *ocs-vm.ova* file and open it.

Select an appliance to import						
🔾 🗢 📲 « 🔹 OnLine Collection System (for ECI) 🔹 Workshop 🔹 labs 🔹 2.virtual images 🔹 🗸 👍 Search 2.virtual images 👂				Q		
Organize 🔻 New folder					•	0
📜 Computer	*	Name	Date modified	Туре	Size	
System (C:)		💗 ocs-vm.ova	26/11/2012 09:38	Open Virtualizatio	1.075.645 KB	
File <u>n</u> ame:	ocs-vm.ova			 Open Virtualiza 	tion Format (*.o	•
				<u>O</u> pen	Cancel	

Figure 10 open the ocs-vm.ova appliance

Click on next to see the appliance settings.



Figure 11 continue the import process

Select import to launch the import process. Don't modify any settings parameters.

Applia	nce settings		
These ar imported clicking o	e the virtual machines co VirtualBox machines. Yo n the items and disable o	ontained in the appliance and the sugg u can change many of the properties s others using the check boxes below.	ested settings of the shown by double-
Descrip	tion	Configuration	-
Virtual S	ystem 1		
**	Name	ocs-vm	E
	Guest OS Type	쭑 Ubuntu	
	CPU	1	
	RAM	2048 MB	
•	DVD		
ø	USB Controller		-
- Reinit	alize the MAC address o	f all patwork cards	

Figure 12 accept the default settings and import

👔 Importing App	liance: Importing appliance '\OnLi	×
	Importing virtual disk image 'ocs-vm-disk 1.vv 3 minutes remaining	mdk' (2/2) 3% 🗶

Figure 13 import process

After a few minutes (depending of your computer), the OCS virtual machine will be imported in the VirtualBox manager.

💗 Oracle VM VirtualBox Manage	r Carrows to me amount and and	
<u>F</u> ile <u>M</u> achine <u>H</u> elp		
New Settings Start Discard		Details 🙆 Snapshots
ocs-vm	📃 General	Preview
Powered Off	Name: ocs-vm Operating System: Ubuntu	
	System	
	Base Memory: 2048 MB Boot Order: Floppy, CD/DVD-ROM, Hard Disk Acceleration: VT-x/AMD-V, Nested Paging, PAE/NX	ocs-vm
	Display	
	Remote Desktop Server: Disabled	
	Storage	
	IDE Controller IDE Secondary Master: [CD/DVD] Empty SATA Controller SATA Port 0: ocs-vm.vmdk (Normal, 10,00 GB)	
	🍃 Audio	
	Host Driver: Windows DirectSound Controller: ICH AC97	
	P Network	-
		J.A

Figure 14 OCS vm imported

5. OCS configuration

5.1 Running the OCS virtual machine

To run the OCS virtual machine, select it in the left list (see figure 14)



Figure 15 powered off

and push the start button.



Figure 16 the start button from the top bar

Or, you can also double click on the ocs-vm entry in the list.

A new window appears with your running virtual image.

📝 ocs-vm [Running] - Oracle VM VirtualBox	_ 0	x
Machine View Devices Help		
Skipping profile in /etc/apparmor.d/disable: usr.sbin.rsyslogd		
* Starting AppArmor profiles	l [OK 1
* Stopping cold plug devices	l	UKJ
* Stopping log Initial device creation	L	נאט
* Stopping System v Initialisation compatibility	L F	נאט
* Starting configure network device security	L L	נאט
* Starting configure wirtual network devices	ſ	נוגס
* Stopping load fallback graphics devices	Ē	окі
* Stopping configure virtual network devices	E E	OK 1
Checking disk drives for errors. This may take several minutes.		
Press C to cancel all checks in progress		
* Starting System V runlevel compatibility	1	ок ј
* Starting automatic crash report generation	L L	OK 1
* Starting save kernel messages	L	UK J
* Starting HCP1 daemon	L	UK J ניעס
* Starting regular background program processing daemon	L F	ניט
* Starting Usershace bootsplash	L F	נאט
* Starting CPU interrunts balancing daemon	ſ	ניגט
* Starting crash report submission daemon	Ē	окі
* Stopping Userspace bootsplash	[OK 1
* Stopping save kernel messages	[ок ј
* Starting web server apache2	[OK 1
Starting glassfish		
* Starting MySQL Server]	ок ј
Waiting for domain1 to start * Stopping CPU interrupts balancing	f dae[ок ј
	CTRL DR	OITE

Figure 17 wait until all the services are started

Wait a minute until you see the VirtualBox console.

🐕 ocs-vm [Running] - Oracle VM VirtualBox		×
Machine View Devices Help		
192.168.56.101 ocs-vm login:		
9 0 D = 1 () (CTRL DROIT	E

Figure 18 your virtual image is ready to use

5.2 Stopping the OCS virtual machine

To stop the OCS virtual image, click the cross on the top right corner and power off the machine.



Figure 19 power off the machine

5.3 Initializing the OCS environment

At this point, the OCS virtualized environment is running. The OCS web application is also started. Your OCS environment is already initialized and ready to use.

5.3.1 Default password

The users and passwords use to initialise the environment are:

Linux server User: ocs Password: ocs

Initiative administration side

User: admin Password: Qwerty123!

5.3.2 Test your application

Now, you can test the application.

Open a browser and go to the public site: *http://YourVirtualMachineIP:8080/oct-web-public* (i.e.: <u>http://192.168.56.101:8080/oct-web-public/</u>)

Or, open a browser and go the administration site: *http://YourVirtualMachineIP:8080/oct-web-admin*

(i.e.: http://192.168.56.101:8080/oct-web-admin/)



Figure 20 administration site

	Firefox 🔻		
	Home - O	nline Collection System +	
) [] 19	2.168.56.101:8080/oct-web-public/;jsessionid=1f242bb6d66a701b56873cb1348c	
1.17		Goodbye Online Collection System	Please select language English (en)
12	Home	🥃 <u>View conformity certificate</u> 🛛 🔒 <u>View privacy statement</u>	
P	roposed ioodbye	European Citizens' Initiative:	
	Subject Cya	matter:	
	Main ob Not, so	jectives: much	
	In forma Deutsch	ion on this proposed initiative is available in the following languages: <u>Ελληνικά English español Français Nederlands polski română slovenčina Svensk</u>	<u>ka</u>
	Europea 54321	n Commission registration number:	
	Date of 11/11/2	registration: 011	
	Web ad http://	dress of this proposed initiative on the European Commission register: <c.europa.eu 54321="" eci="" en<="" th=""><th></th></c.europa.eu>	
	Names (Mord Lo	rf organisers: rd, Prices Asda, Googoo Goony, Mentalian Aboush, Chocolate Nutter	
	Names (Mord Lo	rf contact persons: rd, Prices Asda	
	E-mail a Modric@	ddresses of contact persons: dev.null, ASDA@dev.null	
	Website http://	of this proposed citizens' initiative (if any): evertand.org/en	

Figure 21 public site

5.4 Glassfish notes

5.4.1 Administrator account

The OCS application is deployed under Glassfish.

To access the Glassfish administration console, open a browser and go to: *https://YourVirtualMachineIP:4848/* (i.e.: <u>https://192.168.56.101:4848/</u>)

	ORACLE
GlassFish [™] Ser	ver Open Source Edition
Administration	Console
User Name:	
Password:	
Login	

Figure 22 Glassfish administration console login

By default, an administrative account is defined:

- user name: admin
- password: admin

For security reason, you should change the administrator password.

5.4.2 Change the administrator account

Before changing your administrator password, you must be log in the administration console. Enter the default credentials (admin/admin) and select login.

When you are logged in, you have access to your server and domain configuration.

Tree Common Tasks Common Tasks Common Tasks Common Tasks Common Tasks Server (Admin Server) Clusters Standalone Instances Nodes Applications Applications Lifecycle Modules Monitoring Data Password: JDBC Resources JDBC Resource Adapter Configs JNDI Monitoring JNDI Medault-config	Home About User: admin Domain: domain1 Serv GlassFish [™] Server Open Sou @	er: 192.168.56.101 rce Edition			Logo	ut Help
(2) Server (Admin Server) Clusters Standalone Instances Standalone Instances Nodes Applications Cifecycle Modules Monitoring Data Resources JDBC Connectors Server Adapter Configs JNS Resources JNS Resources JNDI Configurations Configurations Monitoring Data Configurations	Tree Common Tasks	Domain Attributes Tab	Applications Configuration	Administrator Password	Password Aliases	Domain Logs
Indues Image: Applications	Server (Admin Server)	New Admi Changes the pas	nistrator Pas ssword for the current	(2) sword admin user.		Save (4)
Confirm New Password: (3) Image: Second s	High Nodes Applications Output Lifecycle Modules Monitoring Data	User ID: Group List: New Passwo	admin asadmin ord:	n		
Image: Provide and the second sec	 ▶ Gesources ▶ JDBC ▶ Gonnectors 	Confirm New	/ Password:		(3)	
 ► A DAME ► A DAME	 					
▶ ∎∰ server-config	 ► □ JNDI ▼ □ Configurations ► □ default-config ► □ server-config 					

Figure 23 define a new administrator password

The steps to change the administrator password are:

- in the tree on the left, select "domain" (1)
- select the right tab "administrator password" (2)
- enter a new password and confirm it (3)
- save your modifications (4)

6. Accessing your files

The OCS virtualized environment give the possibility to access the files generated by the OCS application (i.e. exported encrypted signature).

To access those files, you will install an sftp client or an ftp client able to use the sftp protocol. A good choice is Filezilla (http://filezilla-project.org/).

Inside your sftp client, define a new connection with the following parameters:

Host: Your virtual image IP (i.e. 192.168.56.101)
Port: 22
Protocol: SFTP – SSH File Transfer Protocol
User: ocs (in lower case)
Password: you have define a new password during the OCS environment initialization (see figure 22 – linux user account)

All the files exported by the application are present in the *ocsfilestore* folder.



Figure 24 ocsfilestore

Figure 25 ocsfilestore content

7. Hardware specifications

The OCS virtual image is configured to run on a computer with at least 4 GB of memory. By default, the OCS image uses the half of that memory amount (2 GB).

If your computer is equipped with 2 GB, you have the possibility to reduce the memory amount use by the OCS image.

Remark: under of 1 GB of memory allocated to the OCS image, the virtual image should be instable.

When your virtual image is powered off, select the system settings and change the base memory value (1024 = 1 GB).



Figure 26 virtual machine settings (memory)