# Lab – Creating a Virtual Install of OWASP Using VirtualBox

## Overview

The Open Web Application Security Project (OWASP) Broken Web Applications Project is a collection of vulnerable web applications distributed on a Virtual Machine. The installation and the running of OWSAP are much the same as installing and running Metesploitable2.

## Lab Requirements

- Installation of <u>VirtualBox</u> (If you already have VirtualBox installed, you do not need to reinstall it)
- Download and extract an archive of the **OWASP Web Applications Project**.
- Installation of <u>7-zip archive utility</u>.

# Begin the lab

Download the OWASP Web Applications Project for the SourceForge

Extract the contents using 7-zip. Right-click on the download, and for the context menu, select 7-zip and then select **Extract to** a folder using the same name as the downloaded archive

6	Share with Skype	7Z File 1,780,934 KB	
	7-Zip	Open archive	
	CRC SHA	Open archive	>
	Defraggler >	Extract files	
÷	Send with Transfer	Extract Here	
	Move to Dropbox	Extract to "OWASP_Broken_Web_Apps_VM_1.2\"	
		Test archive	
	Scan with Microsoft Defender	Add to archive	
E	Share	Compress and email	
:	Open with	Add to "OWASP_Broken_Web_Apps_VM_1.2.7z.7z"	
	Give access to >	Compress to "OWASP_Broken_Web_Apps_VM_1.2.7z.7z" and email	
	Restore previous versions	Add to "OWASP_Broken_Web_Apps_VM_1.2.7z.zip"	
	Send to >	Compress to "OWASP_Broken_Web_Apps_VM_1.2.7z.zip" and email	

### Package being extracted.

6% Extracting C:\Users\Ex	pat\Dow Web_Apps_	VM_1.2.7z		
Elapsed time: Remaining time: Files: Compression ratio:	00:00:05 00:01:14 0 32%	Total size: Speed: Processed: Compressed size:		6027 M 75 MB/s 385 M 126 M
Extracting				
OWASP Broken Web Apps-cl1-s	001.vmdk			
	Background	Pause	С	ancel

Back at the download location, find the extracted folder. Remember the location.

Open VirtualBox.

From the taskbar, click on Machine, and from the context menu, click New.



This launched the Create Virtual Machine Wizard.

Give the new machine a user-friendly name.

Select a location for the machine folder.

For the Type, select Linux.

For the version, select Ubuntu (64 -bit)

At the bottom of the window, select the radio

Button to Use an existing virtual hard disk file.

Over to the right of the screen, click on the folder

icon to browse to the extracted folder location.

On the next screen, click the add button.



Select the file shown in the following image.

Name	Туре	Size
😵 OWASP Broken Web Apps-cl1.vmdk	Virtual Machine Disk Format	1 KB
😵 OWASP Broken Web Apps-cl1-s001.vmdk	Virtual Machine Disk Format	1,733,184 KB
😵 OWASP Broken Web Apps-cl1-s002.vmdk	Virtual Machine Disk Format	1,566,016 KB
😵 OWASP Broken Web Apps-cl1-s003.vmdk	Virtual Machine Disk Format	1,764,352 KB
😵 OWASP Broken Web Apps-cl1-s004.vmdk	Virtual Machine Disk Format	1,108,544 KB
😵 OWASP Broken Web Apps-cl1-s005.vmdk	Virtual Machine Disk Format	64 KB

Back at the hard disk selector page, ensure that your disk is selected and click on, Choose.

÷	Create Virtual N	/lachine				?	×
	Name and opera	ting system					
	Name:	OWSAP Project					
	Machine Folder:	E:					~
	Type:	Linux				▼ 🍯	
	Version:	Ubuntu (64-bit)				•	
	Memory size	1 1 1 1 1 1 1		1 1 1 1 1 1 1	30720 MB	1024 🜩	MB
	Hard disk						
	<ul> <li>Do not add a</li> <li>Create a virt</li> </ul>	virtual hard disk ual hard disk now					
	Use an existing Use an existing the lecture.	ng virtual hard disk fil vdi (Normal, Inaccess	e				2
				Guided Mode	Create	Cance	:l

💿 OWSAP Project - Hard Disk Selector						×	
Mediur	Medium						
Add	Refresh						
Name	Name Virtual Size Actual Size					^	
V No	pt Attached						
	OWASP Broken Web Apps-cl1.vmdk	8.00 GB	5.89 GB				
	Windows 10 Pro_1.vdi	50.00 GB	2.00 MB			~	
Search	By Name 🔻				6	۹۵ ۵	
				Choose	Can	cel	

At the next screen, click on Create.

From the left Windows pane, find your newly created virtual install of OWSAP. Right-click on the machine's name, and from the context menu, select Settings.

OWSAP Project	Settings	Ctrl+S	:=
	G Clone	Ctrl+0	

### Caveat!

I could not get OWSAP and Kali to communicate until I configured both with their NAT Network network setting. I tried Host-only and NAT, but they could not see each other until I configured both with NAT Networking.

🕑 Ka	ali-Linux-2020.3-v	ox-amd64 - Settings			?	×	
	General	Network					
	System	Adapter 1 Adapter 2 Adapter	3 Adapter 4				
	Display	Enable Network Adapter					
$\bigcirc$	Storage	Attached to: NAT Network	•			_	
	Audio	Name: NatNetwork				•	
	Network						
	Serial Ports						
Ø	USB						
	Shared Folders						
=	User Interface						
				ОК	Can	cel	

Click OK

Back at the left windowpane, x2 click your newly created virtual install of OWSAP.

Once fully booted, log in as **root** with the password **owaspbwa**.

Ensure that you are receiving an IP address from DHCP by issuing ifconfig eth0 from the command line.

owaspbwa login: root Password: Login timed out after 60 seconds. OWASP Broken Web Applications VM Version 1.2 Log in with username = root and password = owaspbwa owaspbwa login: root Password: Welcome to the OWASP Broken Web Apps VM !!! This VM has many serious security issues. We strongly recommend that you run it only on the "host only" or "NAT" network in the VM settings !!! You can access the web apps at http://10.0.2.15/ You can administer earrow configure this machine through the console here, by SSHing to 10.0.2.15, via Samba at \\10.0.2.15\, or via phpmyadmin at http://10.0.2.15/phpmyadmin. In all these cases, you can use username "root" and password "owaspbwa". root@owaspbwa:~# Results for ifconfig.



Open your Kali browser and type the IP address assigned to your OWASP machine at the address bar. You should see the following page.

owaspbwa OWASP Broken Web Applications - Mozilla Firefox					
So owaspbwa OWASP Br × +					
♦ ① 10.0.2.15	🛎 🔍 Search 🔄 🏠 💼 😎 🖡 »				
	owaspbwa				
	OWASP Broken Web Applications Project				
60	Version 1.2				
This is the VM for the <u>Open Web Application Sec</u> project. It contains many, very vulnerable web a information about this project can be found in th For details about the known vulnerabilities in th /p/owaspbwa/tickets/?limit=999&sort= severity	curity Project (OWASP) Broken Web Applications pplications, which are listed below. More he project <u>User Guide</u> and <u>Home Page</u> . ese applications, see <u>https://sourceforge.net</u> +asc.				
11 111 This VM has many serious see that you run it only on the "host maching"	curity issues. We strongly recommend only" or "NAT" network in the virtual e settings !!!				
TRAINING APPLICATIONS					
OWASP WebGoat	OWASP WebGoat.NET				
OWASP ESAPI Java SwingSet Interactive	OWASP Mutillidae II				
OWASP RailsGoat	OWASP Bricks				
OWASP Security Shepherd	Ghost				
<u>Magical Code Injection Rainbow</u>	Opwapp				
Damn Vulnerable Web Application					

End of the lab!