

Hortonworks Sandbox with VMware Fusion

July 2015



Overview

The Hortonworks Sandbox is delivered as a virtual appliance. The virtual appliance (indicated by an .ovf or .ova extension in the filename) runs in the context of a virtual machine (VM), a piece of software that appears to be an application to the underlying (host) operating system (OS), but that looks like a bare machine, including CPU, storage, network adapters, and so forth, to the operating system and applications that run on it.

To use the Hortonworks Sandbox, one of the supported virtual machine applications needs to installed on your host machine:

- VirtualBox
- VMware Fusion
- Hyper-V

This document describes importing the Hortonworks Sandbox virtual appliance into VMware.

Prerequisites

To use the Hortonworks Sandbox with VMware Fusion the following requirements need to be met:

✓ VMware Fusion installed

Version 5 or later (Version 7 recommended)
You can download VMware Fusion here:
https://my.vmware.com/web/vmware/info/slug/desktop_end_user_computing/vmware-fusion/7-0#product_downloads

✓ Host Operating Systems

Host operating system refers to the operating system of your computer. The following link gives list of operating systems supported to run VMware Fusion https://www.vmware.com/support/fusion/faq/requirements

- ✓ Hardware (The newer the hardware the better):
 - ✓ A 64-bit machine with a multi-core CPU that supports virtualization.

 Please look into your operating system's documentation to verify if you are running a 64 bit OS.

Mac OS X:

https://support.apple.com/en-us/HT3696

✓ BIOS - Has been enabled for virtualization support. Please contact your
specific computer vendor to determine how to enable/verify this feature in
your machine's BIOS.



✓ RAM - At least 8 GB of RAM (The more, the better) If you wish to enable services such as Ambari, HBase, Storm, Kafka, or Spark please ensure you have at least 10 Gb of physical RAM in order to run the VM using 8 GB.

More information for hardware requirements for VMware can be found here https://www.vmware.com/support/fusion/faq/requirements

✓ Browsers

- o Chrome 25+,
- o IE 9+ (Sandbox will not run on IE 10)
- o Safari 6+
- ✓ Hortonworks Sandbox virtual appliance for VMware Fusion
 Download the correct virtual appliance file for your environment from
 http://hortonworks.com/products/hortonworks-sandbox/#install
 The file extension for a virtual appliance for VMware Fusion should be .ova

Procedure

The steps provided describe how to import the Hortonworks Sandbox virtual appliance into VMware Fusion. The screenshots displayed are taken from Mac OS X machine running the VMware Fusion 7.1.1 software.

NOTE: The instructions provided is for a VMware Fusion application that currently does not have any existing virtual machines imported.

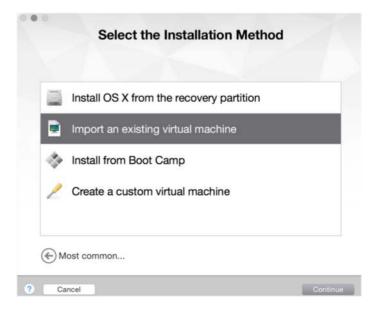
1. Open the **VMware Fusion** application. You can do so by double clicking the icon:



On a Mac OS X machine, by default the application is installed within the Applications folder, hence the icon to launch the application can be found there.



2. The VMware Fusion window opens and prompts



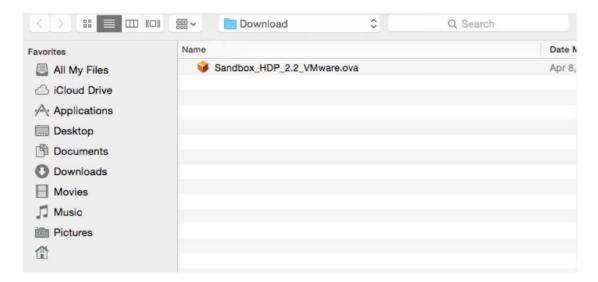
NOTE: If you currently have existing VM's installed you should get a different prompt from the above screenshot.

3. Select the "Import an existing virtual machine" and click the **Continue** button.





4. The file browser dialog opens. Select the virtual appliance file and click **Open**.



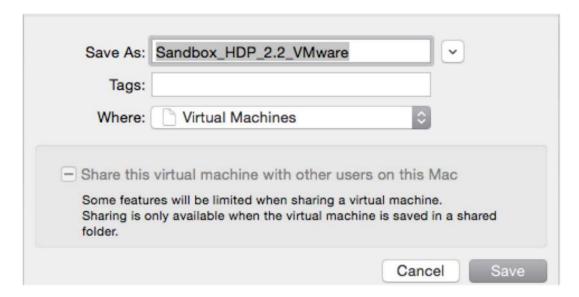
NOTE: The name of the file you have downloaded depends on the version of the Hortonworks Sandbox you have chosen to download. The above picture is referencing Sandbox HDP version 2.2

5. After clicking open, you will be brought back to this screen showing the file you have chosen highlighted. Click **Continue**.





6. After clicking continue, a drop down window sheet displays.

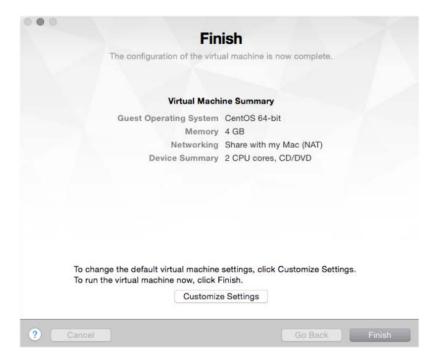


Here you can choose to save the virtual machine with a different name. If you have no preference in renaming, you can just leave the default name and click save. You will the get the importing progress dialog:



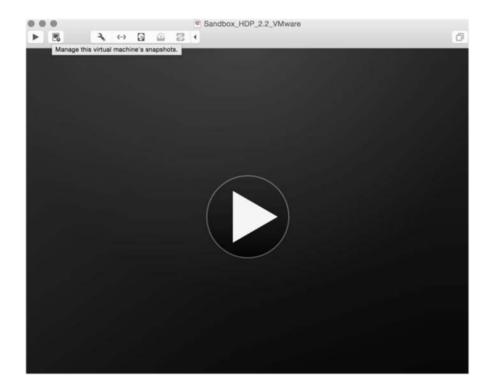


7. Once finished, the following screen is displayed:



Click the Finish button.

8. The next window is the console of the virtual machine, click on the **Play** icon within the console.

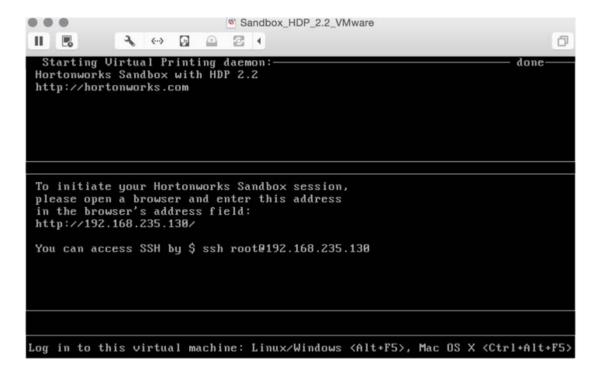




9. After clicking on the play button, you should see the console display boot up information.

```
Sandbox HDP 2.2 VMware
  11 5
Updating IP...
Starting HDP
Starting mysql
Starting Knox Idap
Starting Postgre SQL
Starting secondary name node
Starting name node
Starting data node
Starting Oozie
Safe mode is OFF
Starting zookeeper nodes
                                                                        [WARNINGS]
JMX enabled by default
Using config: /etc/zookeeper/conf/zoo.cfg
Starting Hdfs nfs
Starting NFS portmap
Starting hive server
Starting Hiveserver2
Starting yarn history server
Starting node manager
Starting mapred history server
Starting Falcon
Starting webhcat server
Starting Knox gateway
                                                                                 1
Starting resource manager
                                                                                 1
```

10. Eventually you will see the screen below indicating Hortonworks Sandbox is fully booted and displays login instructions.





NOTE: Because what is being displayed is a conceptually separate machine, control of the mouse and the keyboard must be passed back and forth between the host and the VM. This is particularly useful when the VM has a GUI. If you accidently let the console "capture" your mouse or keyboard, you can release them back to the host machine by pressing the Ctrl and Command keys. A reminder appears in the upper right corner of the console window if you forget.

11. Use one of the supported browsers mentioned in the prerequisites section of this document within your host machine. Enter the URL displayed on the console which brings you to the Splash page. That's it. Read over the information and links to get started in exploring HDP with the Hortonworks Sandbox!

