

# Installing Hortonworks Sandbox 2.1 – VirtualBox on Mac

## Getting Ready to install on Mac using Oracle VirtualBox

Use this section to prepare for your installation.

### Prerequisites

To use the Hortonworks Sandbox on Mac you must have the following resources available to you:

- Hosts:
  - A 64-bit machine with a chip that supports virtualization.
  - A BIOS that has been set to enable virtualization support.
- Host Operating Systems:
  - Mac OS X, Lion or later
- Supported Browsers:
  - Safari latest stable release
  - Google Chrome – latest stable release
- At least 4 GB of RAM
  - Note if you wish to enable the optional Ambari or Hbase projects, you will need 8GB of physical RAM and will need to increase the RAM allocated to the virtual machine to at least 4 GB.
- Virtual Machine Environments:
  - Oracle [VirtualBox version 4.2](#) or later
- The correct virtual appliance file for your environment. Download them from <http://hortonworks.com/products/hdp/>.

### Virtual Machine Overview

The Hortonworks Sandbox is delivered as a virtual appliance that is a bundled set of operating system, configuration settings, and applications that work together as a unit. 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, 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 run the Hortonworks Sandbox you must install one of the supported virtual machine environments on your host machine, either Oracle VirtualBox or VMware Fusion (Mac) or Player (Windows/Linux).

In general, the default settings for the environments can be used.

## Installing on Mac OS using Oracle VirtualBox

1. Open the Oracle VM VirtualBox Manager  
Double click:

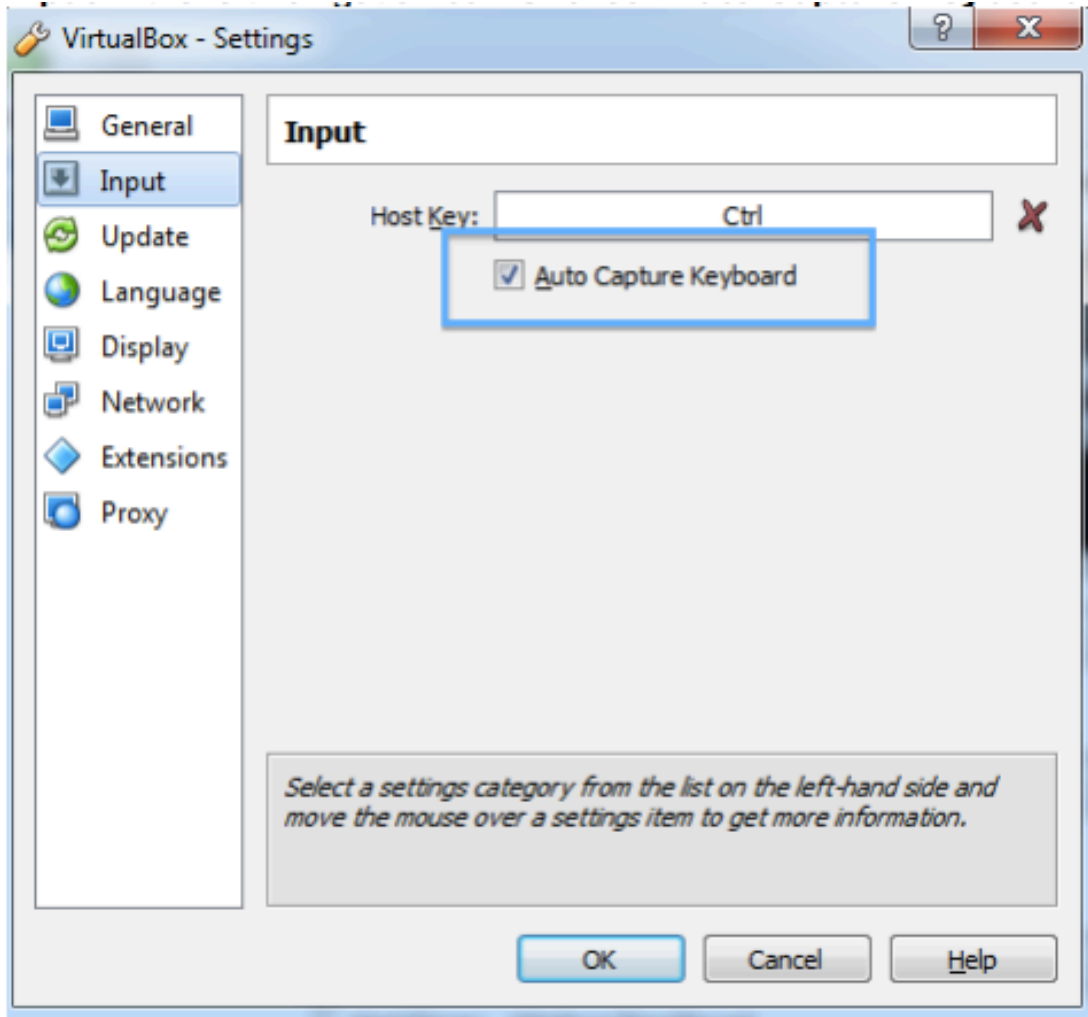


2. The **Oracle VM Virtualization Manager** window opens.

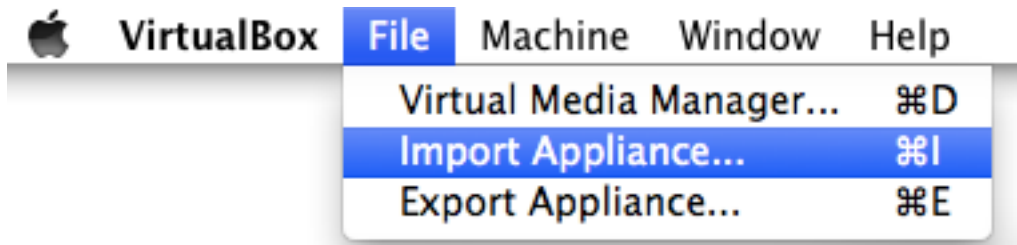


3. Change the Auto-Capture preference. **File->Preferences** and select

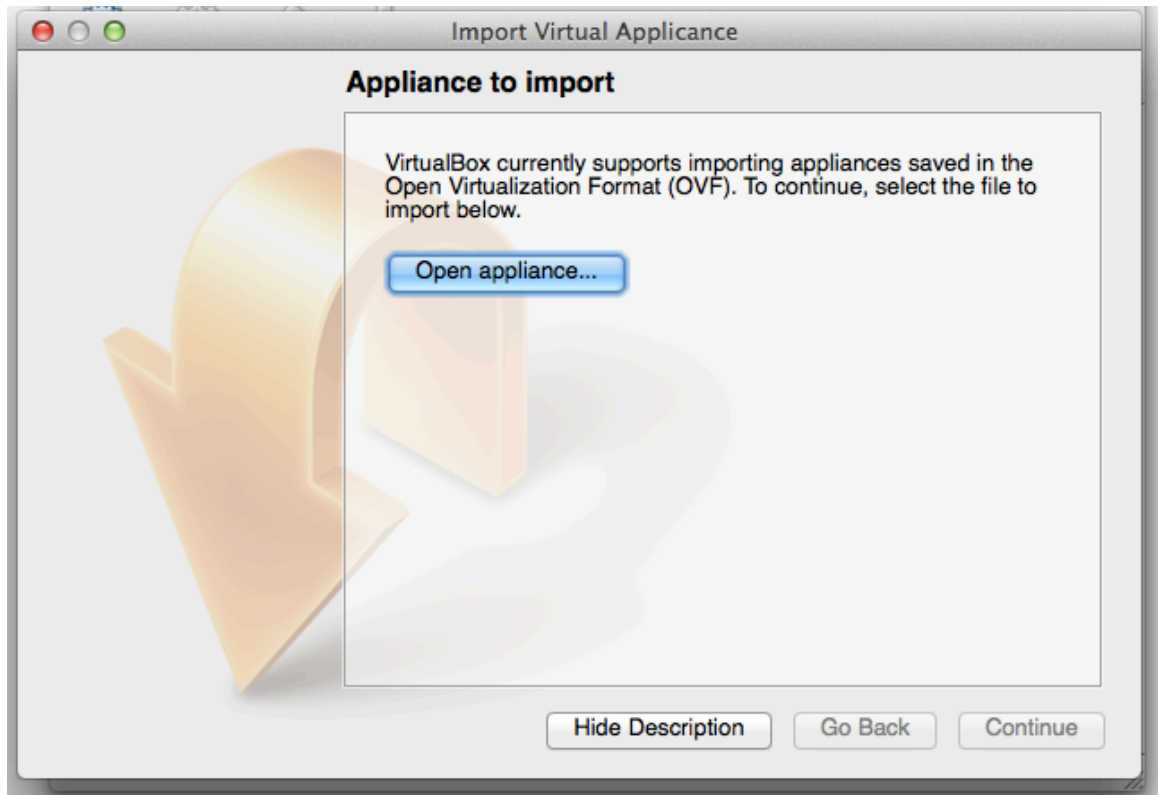
**Input** in the left navigation bar. Uncheck **Auto-Capture Keyboard**.



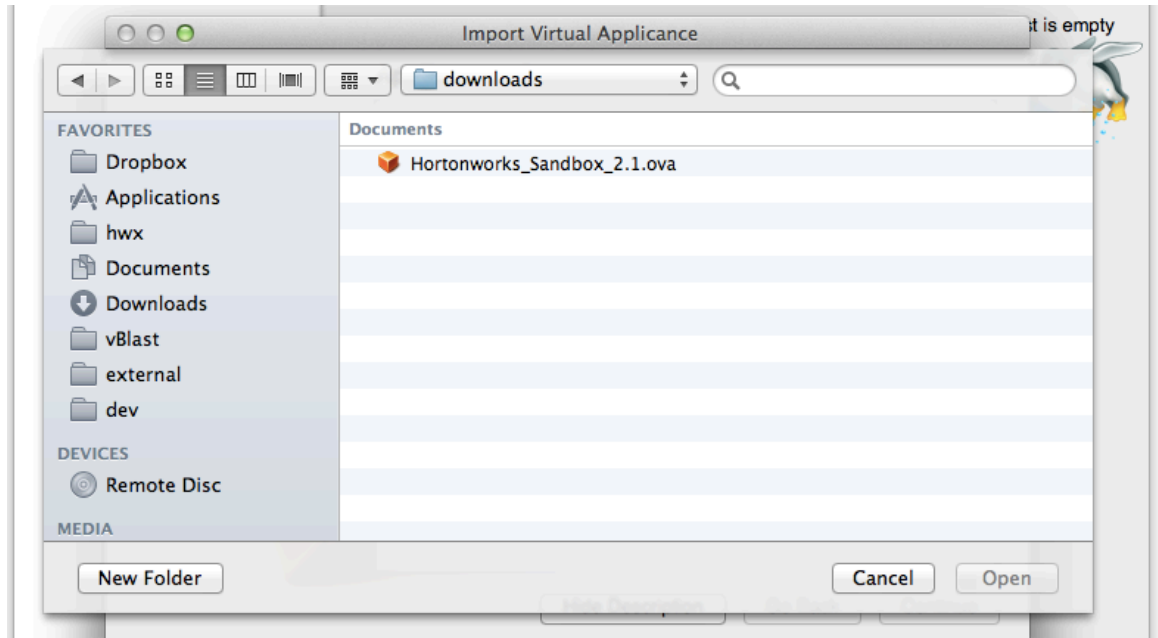
4. Import the Hortonworks Sandbox appliance file: **File->Import Appliance**



5. The **Import Virtual Appliance** screen opens

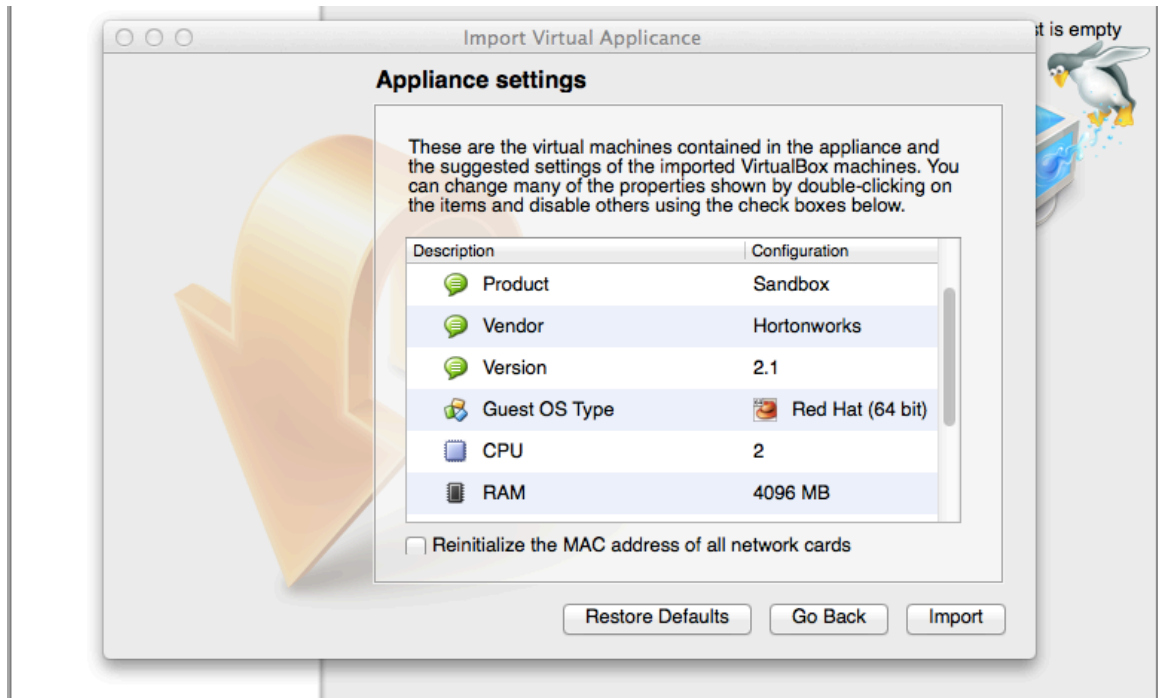


6. Click the **Open appliance** button; the file browser opens. Make sure you select the correct appliance. In this case, the top file is the VirtualBox formatted file. Click the **Open** button...

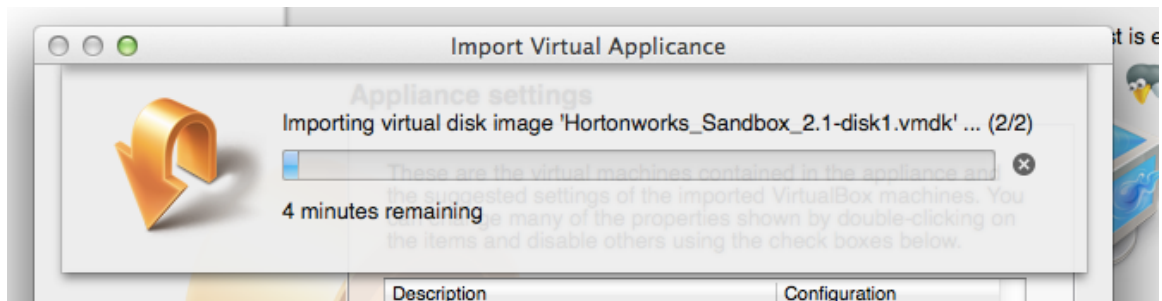


7. You return to the **Import Virtual Appliance** screen. Click **Next**

8. The **Appliance settings** screen appears. You should configure at least 4GB of physical RAM installed. You may wish to allocate more RAM to the VM – 8GB of RAM in the Virtual Appliance will improve the performance. Click **Import**.



9. The appliance is imported.

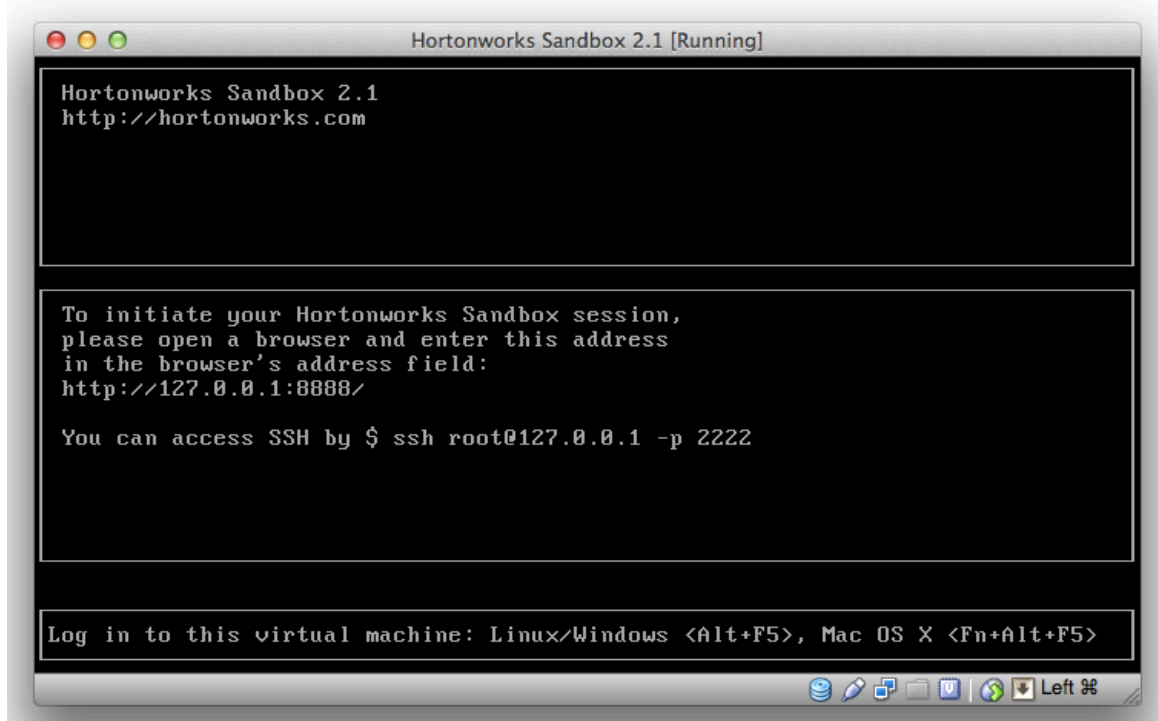


10. Turn on the Hortonworks Sandbox. Select the appliance and click the green **Start** arrow. A console window opens and displays an information screen. Click OK to clear the info screen.

```
Hortonworks Sandbox 2.1 [Running]
Enabling /etc/fstab swaps: [ OK ]
Entering non-interactive startup
Starting monitoring for VG vg_sandbox: 3 logical volume(s) in volume group "vg
_sandbox" monitored [ OK ]
Bringing up loopback interface: [ OK ]
Bringing up interface eth0: [ OK ]
Determining IP information for eth0... done.
Starting portreserve: [ OK ]
Starting system logger: [ OK ]
Starting tutorials... [ OK ]
Starting system message bus: [ OK ]
Mounting filesystems: [ OK ]
Starting acpi daemon: [ OK ]
Retrigger failed udev events [ OK ]
Starting the VirtualBox Guest Additions [ OK ]
Starting VirtualBox Guest Addition service [ OK ]
Starting snmpd: [ OK ]
Starting sshd: [ OK ]
Starting ntpd: [ OK ]
Starting postfix: [ OK ]
Starting httpd: [ OK ]
Starting startup_script...
```

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. In the case of the Hortonworks Sandbox appliance, however, you never need to use your keyboard or your mouse inside the Hortonworks Sandbox console window. If you accidentally let the console “capture” your mouse or keyboard, you can release them back to the host machine by pressing the **Ctrl** key. Click **OK**.

11. Wait while the VM boots up. When the process is complete, the console displays the login instructions for the Hortonworks Sandbox.



Again, 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. In the case of the Hortonworks Sandbox appliance, however, you never need to use your keyboard or your mouse inside the Hortonworks Sandbox console window. If you accidentally let the console “capture” your mouse or keyboard, you can release them back to the host machine by pressing the **Ctrl** key. Click **OK**.



12. Use a browser on your host machine to open the URL displayed on the console.

The Hortonworks Sandbox GUI is displayed. Enjoy.