

# Installing Hortonworks Sandbox 2.0 -- VirtualBox on Mac

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## Getting Ready to install on a Mac using Oracle Virtual Box

Use this section to prepare for your installation.

### Prerequisites

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

- Hosts:
  - A machine with a chip that supports virtualization.
  - A BIOS that has been set to enable virtualization support. Any Mac that can run Lion has been set to enable virtualization.
- Host Operating Systems:
  - Mac OS X, Lion or later
- At least 4 GB of physical 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.
- Supported Browsers
  - Safari latest stable release
  - Google Chrome latest stable release
- Virtual Machine Environments:
  - Oracle [Virtual Box version 4.2](#) or later
- The correct virtual appliance file for your environment. Download them from <http://hortonworks.com/sandbox>.

### 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 Sandbox you must install one of the supported virtual machine environments on your host machine, either Oracle Virtual Box or VMware Fusion (Mac) or Player (Windows/Linux).

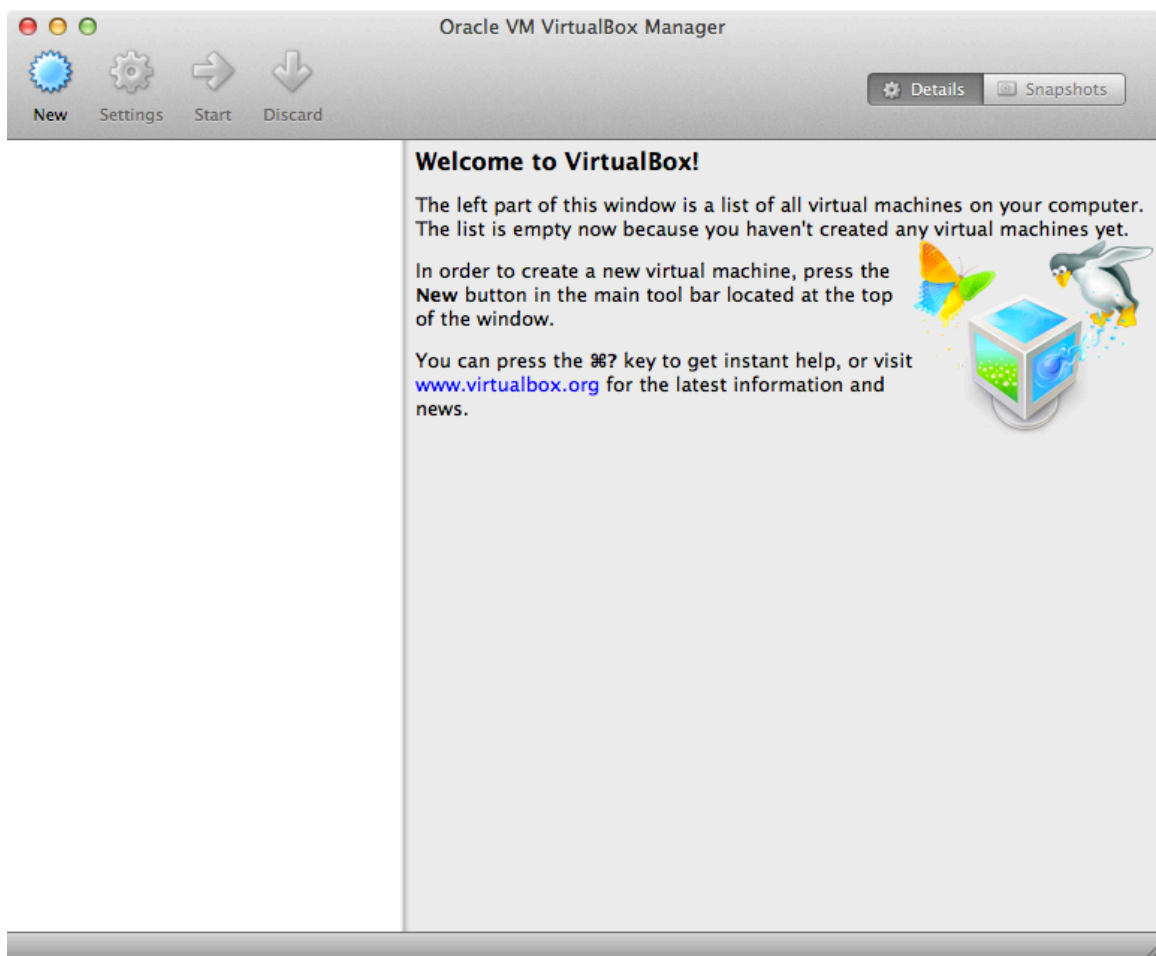
In general, the default settings for the environments are fine.

## Installing on Mac using Oracle Virtual Box

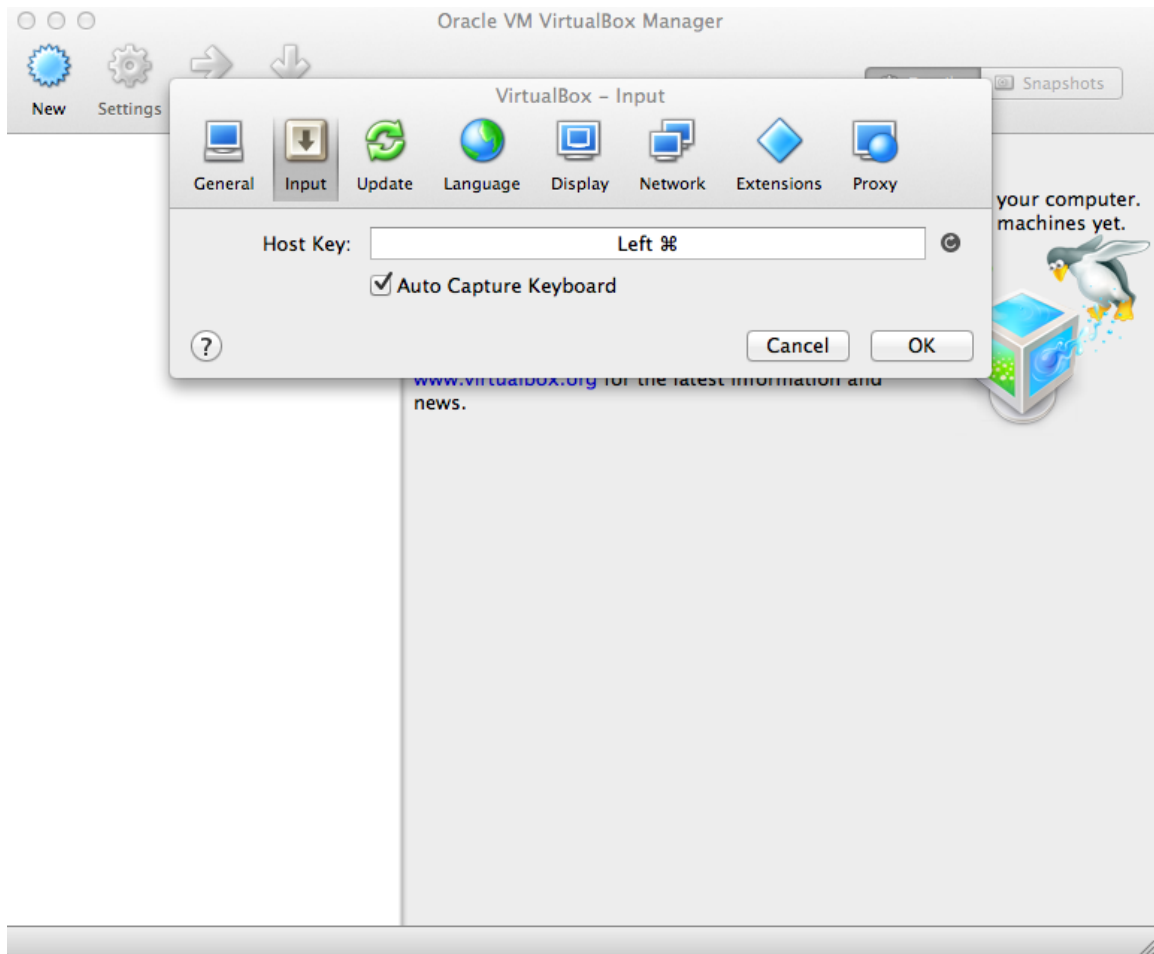
1. Open the Oracle VM VirtualBox Manager  
Double click:



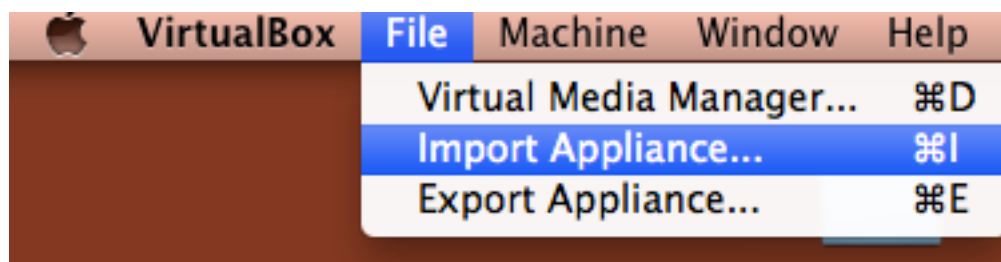
2. The **Oracle VM Virtualization Manager** window opens.



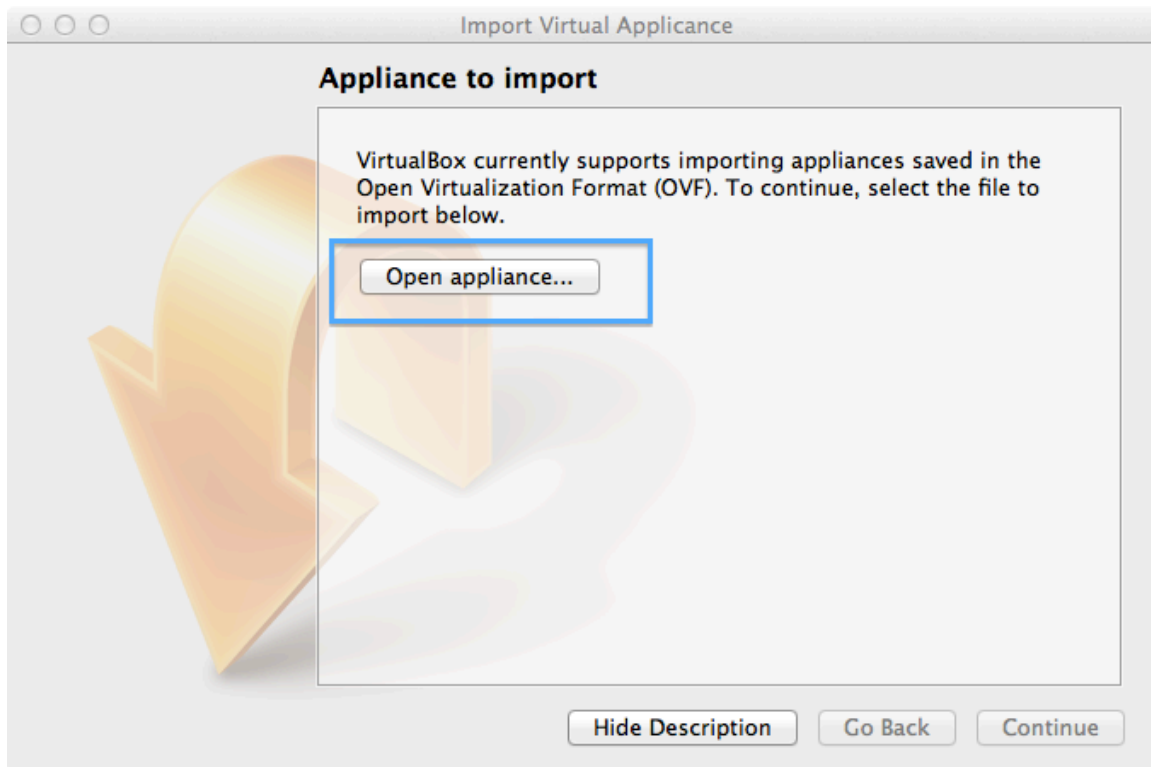
3. Change the Auto-Capture preference. **VirtualBox->Preferences** and select **Input** in the top bar. Uncheck **Auto-Capture Keyboard**.



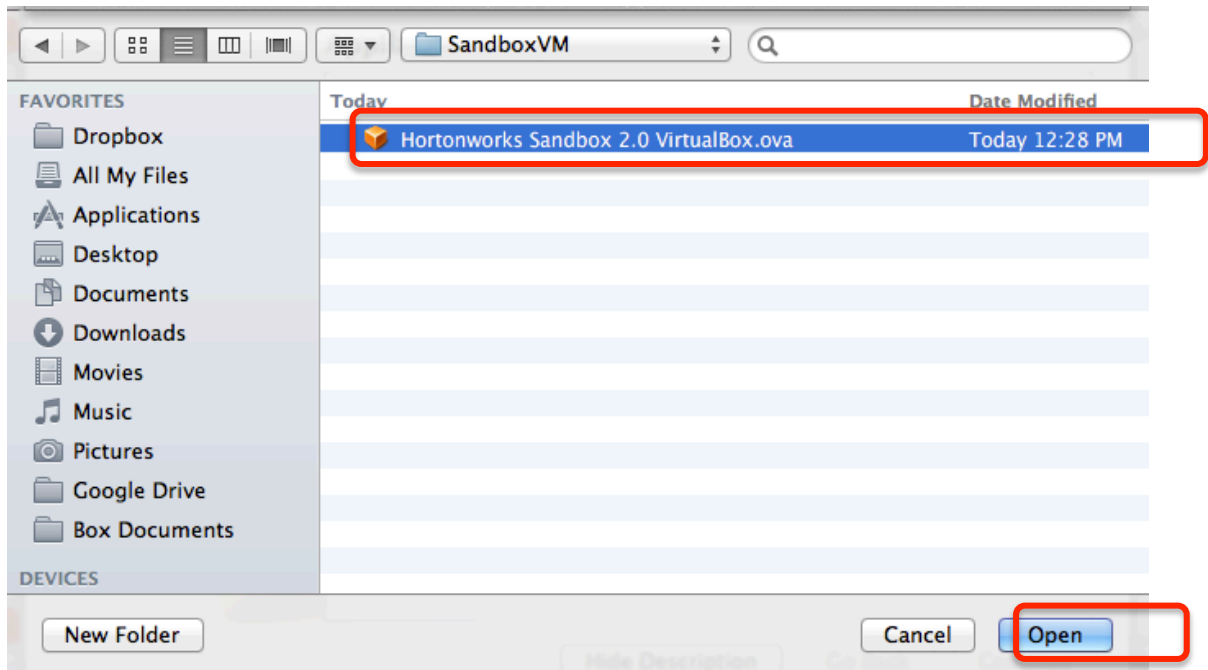
4. Import the Sandbox appliance file: **File->Import Appliance**



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



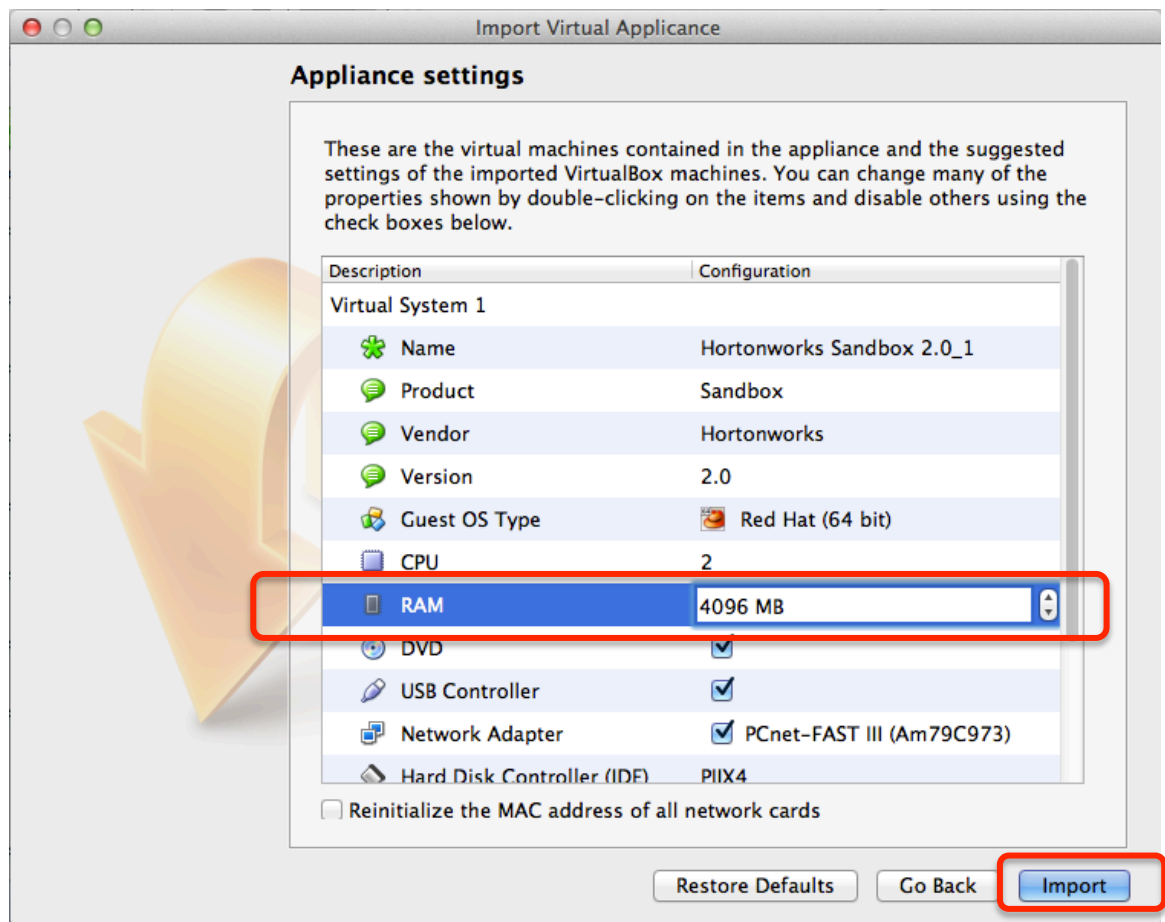
8. Click the **Open appliance** button; the file browser opens. Click the **Open** button.



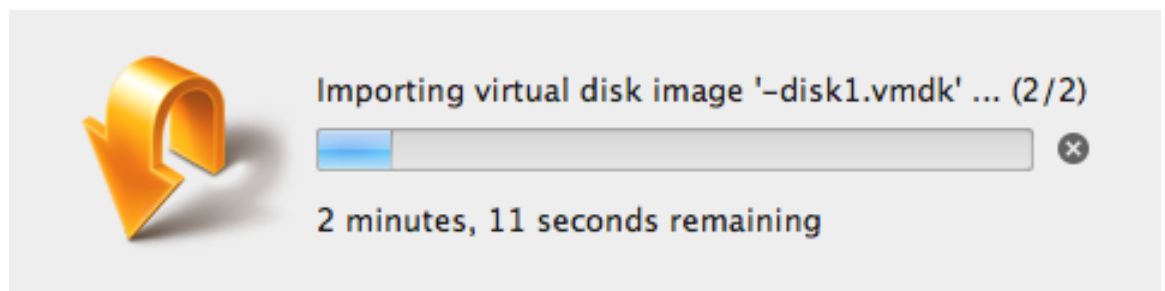
10. You return to the **Import Virtual Appliance** screen. Click **Continue**.



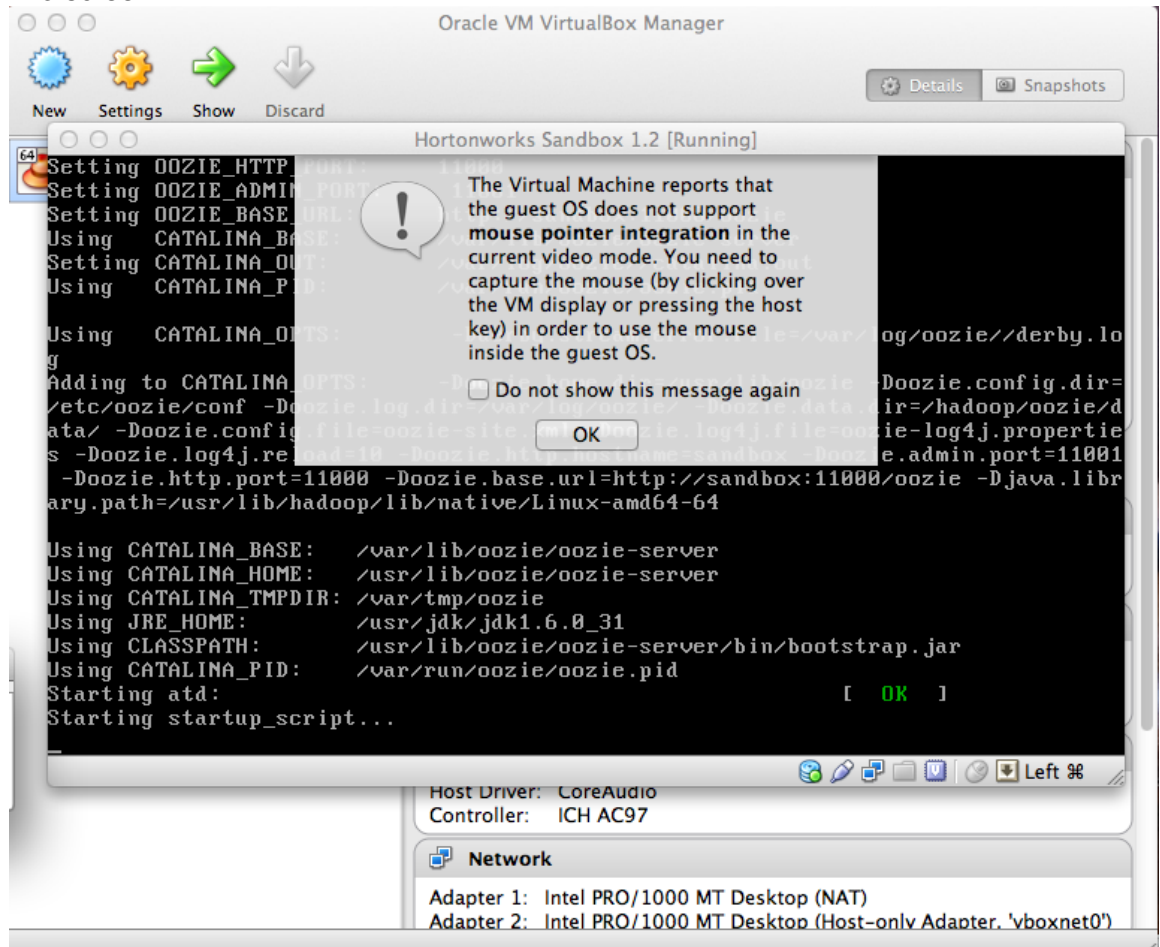
11. The **Appliance settings** screen appears. The default settings work. If you have more than 4Gb of physical RAM, you can increase the RAM allocation to 4Gb in the import screen. Click **Import**.



12. The appliance is imported.

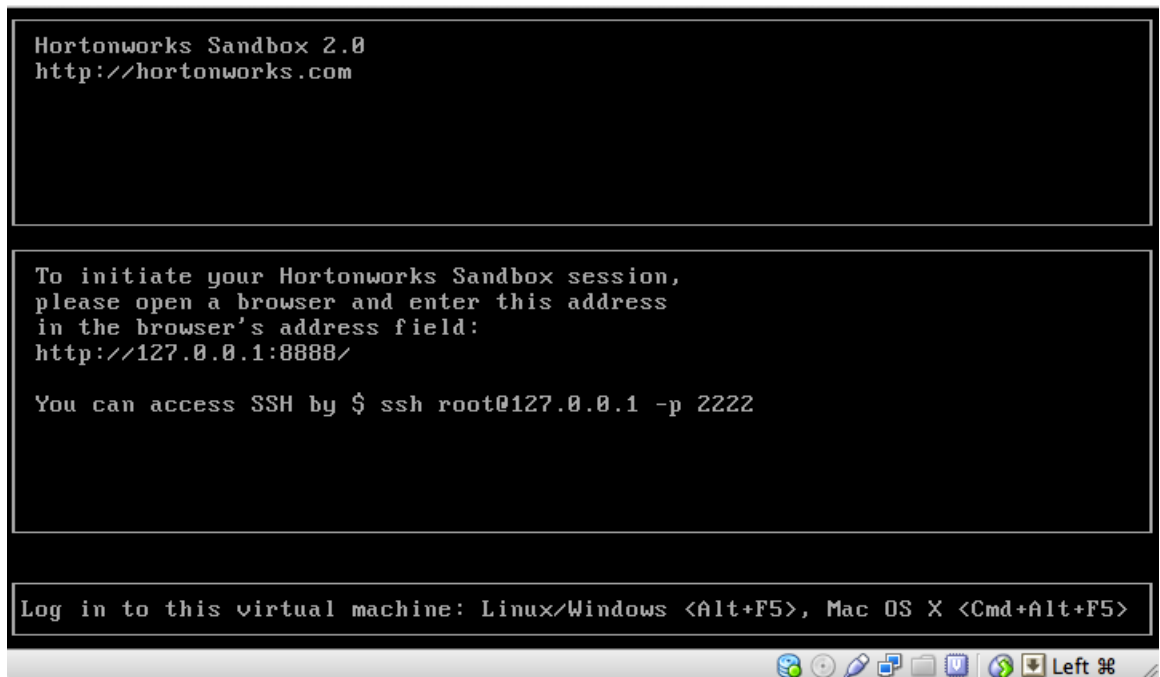


13. Turn on the Sandbox. Select the appliance and click the green **Start** arrow. A console window opens and displays an information screen. Click OK to clear the info screen.





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



The screenshot shows a virtual machine console window with a black background and white text. The text is organized into three distinct sections, each enclosed in a thin white border. The top section displays the product name and a website URL. The middle section provides instructions on how to initiate a session via a web browser and how to access the system via SSH. The bottom section provides instructions on how to interact with the virtual machine's keyboard. At the very bottom of the window, a standard macOS dock is visible with various application icons and a 'Left' button.

```
Hortonworks Sandbox 2.0
http://hortonworks.com

To initiate your Hortonworks Sandbox session,
please open a browser and enter this address
in the browser's address field:
http://127.0.0.1:8888/

You can access SSH by $ ssh root@127.0.0.1 -p 2222

Log in to this virtual machine: Linux/Windows <Alt+F5>, Mac OS X <Cmd+Alt+F5>
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15. Use a browser on your host machine to open the URL displayed on the console.



The Sandbox GUI is displayed. Enjoy.