MIRANTIS

# Software

**Get Mirantis OpenStack**

Mirantis Zero-Lock-In
OpenStack Distribution |
Core Projects

Key Related Projects

- Fuel: OpenStack deployment
- Murano for Windows and Linux
- OpenStack Hadoop – Savanna

Plug-ins & Drivers

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Support Options

**Resources**

Quick Start

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# 0 to OpenStack in 60 Minutes or less

### 0. Prerequisites

This example works using a host machine with a minimum of 8 GB of RAM, but 16 GB works better. For starters, you need to download the latest version of VirtualBox and install the Extension Pack. Run VirtualBox on a stable host system: Mac OS 10.7.x/10.8.x, CentOS 6.4, or Ubuntu 12.04 are preferred and fully supported by the scripts below. One hour later, you'll have a demonstration OpenStack cluster on a single server using VirtualBox.

### 1. Get VirtualBox Scripts

[Get VirtualBox Scripts]

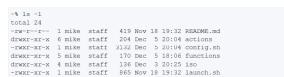### 2. Download the Mirantis OpenStack ISO

[Get the ISO]

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[Get the ISO]

### 3. Follow these simple steps to launch OpenStack

Unzip the archive containing the VirtualBox scripts.

You should see something like this:

```
-% ls -l
total 24
-rw-r--r--  1 mike  staff   419 Nov 18 19:32 README.md
drwxr-xr-x  6 mike  staff   204 Dec  5 20:04 actions
-rwxr-xr-x  1 mike  staff  3132 Dec  5 20:04 config.sh
drwxr-xr-x  5 mike  staff   170 Dec  5 18:06 functions
drwxr-xr-x  4 mike  staff   136 Dec  3 20:25 iso
-rwxr-xr-x  1 mike  staff   865 Nov 18 19:32 launch.sh
```

The *iso* directory needs to contain a single ISO image for Mirantis OpenStack, which you can deploy by starting with Fuel, so you'll need to *cd* to that directory. For example:

```
-% md5sum MirantisOpenStack-4.1.iso
7049520bc641df15de1fe0e572c70001  MirantisOpenStack-4.1.iso

-% md5sum MirantisOpenStack-4.1.img
9031e81e8e1707da6fda186bfefba561  MirantisOpenStack-4.1.img
```

The *config.sh* file contains a configuration that can be fine-tuned. For example, you can select how many virtual nodes to launch and how much memory to give them. For a purely physical install, you can even set the number of virtual child nodes to create to zero.

Since your OpenStack deployment starts with Fuel, run the Fuel launch script:

```
-% ./launch.sh
```

Once executed, this script picks up an image from the ./iso directory, creates a VM, mounts the image to this VM, and automatically installs the admin node. Once the installation of the admin node is complete, Fuel will create slaves for Mirantis OpenStack and PXE-boot them from the admin node. (If you're using bare-metal nodes instead, just make sure they're on the same L2 network as the admin node and PXE boot them—Fuel will discover them automatically.) Finally, the installer gives you a link to access the Web-based UI for the admin node. Follow that URL and start installation of the cluster.

And, say hello to Mirantis OpenStack!

[Read the complete doc]