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Software (<https://software.mirantis.com>) > Quick Start

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 (<https://www.virtualbox.org/wiki/Downloads>) the latest version of VirtualBox (<https://www.virtualbox.org/wiki/Downloads>) 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

OPT-IN TO BE ABLE TO DOWNLOAD

Already got a login?

2. 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-5.0.iso
b5ab8d37ef68e834cfda1bd2314d57b5  MirantisOpenStack-5.0.iso

-% md5sum MirantisOpenStack-5.0.img
673f5545bfff815237806e8abbec61b28  MirantisOpenStack-5.0.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 (<http://docs.mirantis.com/>)

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