Guide to the XenServer Plugin for Fuel 6.1

Intro

This document will guide you through the steps of install, configure and use of the XenServer Plugin for Fuel

Sections

XenServer Plugin for Fuel 6.1

XenServer is an Open Source hypervisor with commercial support options provided by Citrix. This plugin provides a new Release definition in Mirantis OpenStack to allow easy installation of production environments based on XenServer with Fuel.

Requirements

Requirement	Version/Comment
Fuel	6.1
XenServer	6.5 SP1
XenServer plugin for Fuel	1.0.0

- This plugin will not install XenServer or configure the Virtual Machines used to run the OpenStack services. Installation of XenServer and configuration of these Virtual Machines must be performed manually.
- Each hypervisor must have the same access credentials as Fuel does not support per-node settings.
- One Virtual Machine, which will be used to run Nova (the compute node), must exist on each hypervisor. This must be created as an HVM guest (in XenCenter, use the "Other Install Media" template) and configured to PXE boot from the PXE network used by Fuel.
- XenCenter is expected to be used to configure VMs, and is required by the HIMN tool in the installation steps
- Network 'br100' must exist on the XenServer hypervisors. This network will be added automatically to Virtual Machines and the compute nodes must have access to this network.

Limitations

- The plugin is **only** compatible with OpenStack environments deployed with **Nova Network** as network configuration in the environment configuration options. The plugin will disable incompatible options when the XenServer Release is selected.

Installation Guide

Install the Plugin

To install the XenServer Fuel plugin:

1. Download it from the Fuel Plugins Catalog
2. Copy the *rpm* file to the Fuel Master node:

```
[root@home ~]# scp fuel-plugin-xenserver-1.0-1.0.0-1.noarch.rpm root@fuel-master:/tm
```

3. Log into Fuel Master node and install the plugin using the Fuel CLI:

```
[root@fuel-master ~]# fuel plugins --install /tmp/fuel-plugin-xenserver-1.0-1.0.0-1.
```

4. Verify that the plugin is installed correctly:

```
[root@fuel-master ~]# fuel plugins
id | name                   | version | package_version
---|------------------------|---------|----------------
9  | fuel-plugin-xenserver | 1.0.0   | 2.0.0
```

Add Management Network tool

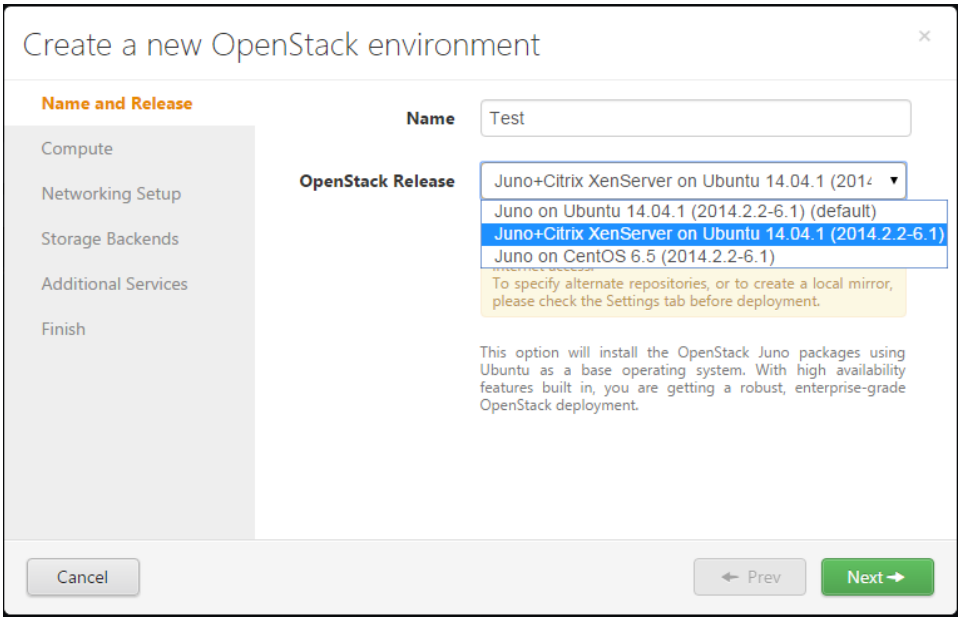
1. Download the HIMN tool xencenter-himn-plugin
2. Stop XenCenter if it is running
3. Install the HIMN tool
4. Re-start XenCenter

Xenserver Fuel Plugin User Guide

Once the Fuel XenServer plugin has been installed (following Installation Guide), you can create *OpenStack* environments that use XenServer as the underlying hypervisor

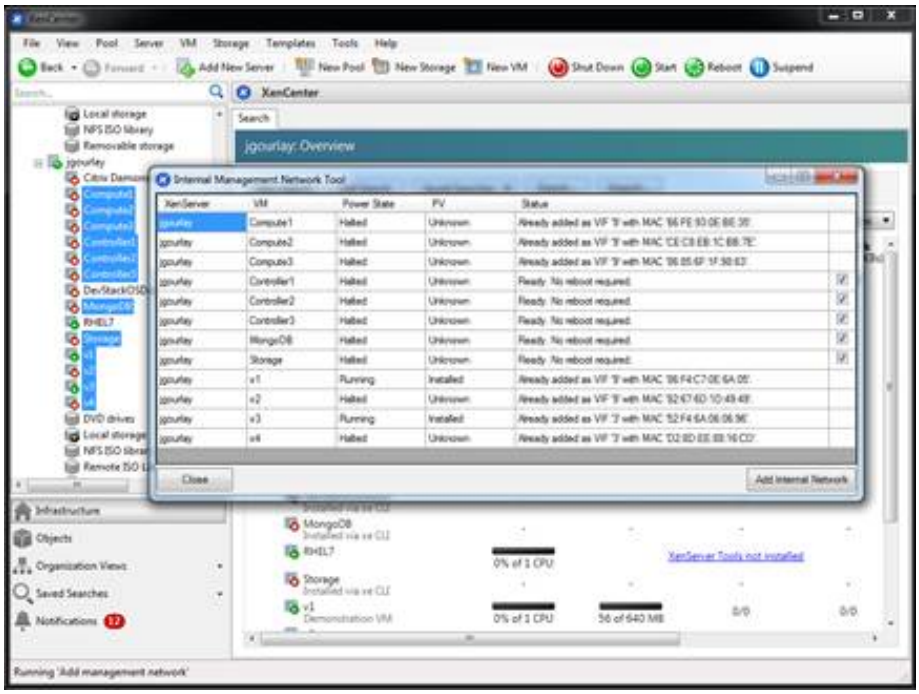
Select Environment

1. Create a new environment with the Fuel UI wizard. Select "Juno+Citrix XenServer on Ubuntu 14.04.1" from OpenStack Release dropdown list. At the moment you will see most of options are disabled in the wizard.

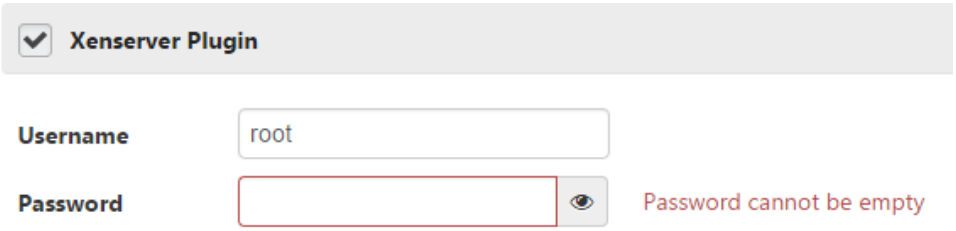


2. Create new VMs in XenCenter for the compute nodes
3. Select all Compute virtual Machines, Right click on one of the Virtual Machines and select "Add Management Network"

4. Use the dialog to add the Host Internal Management Network to the compute virtual machines

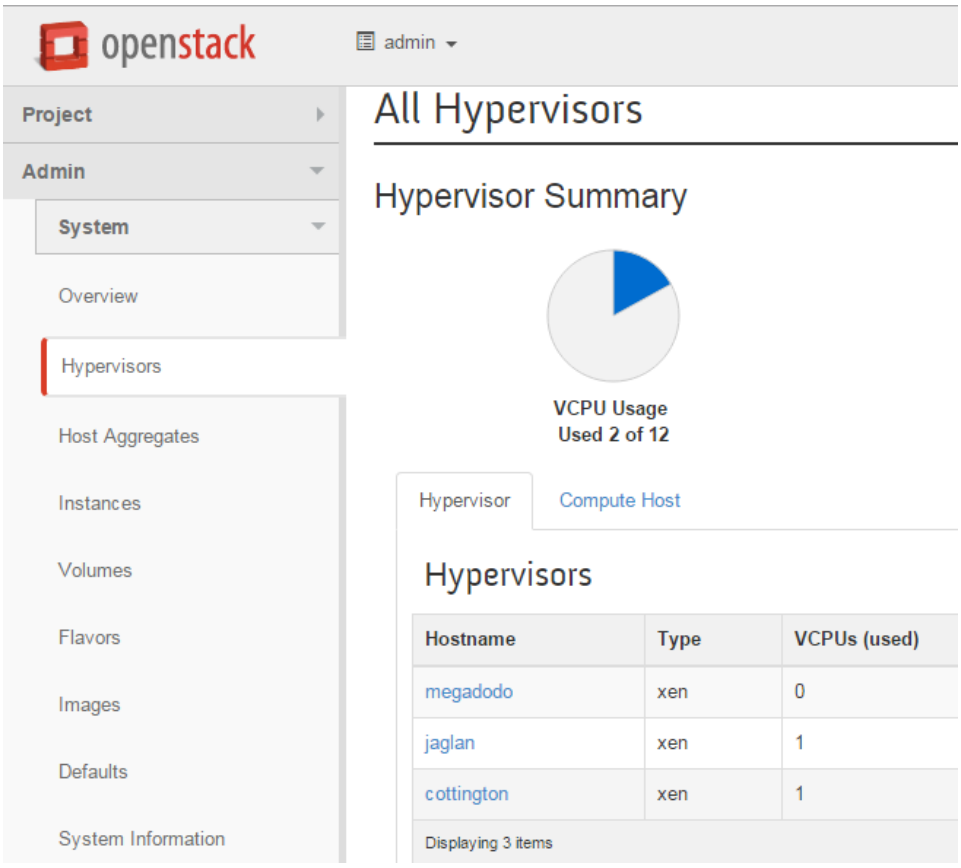


5. Add new VMs to the new environment according to Fuel User Guide and configure them properly. A typical topology of 1 controller node + 3 compute nodes + 1 storage node is recommended.
6. Go to Settings tab and scroll down to "XenServer Plugin" section. You need to input the common access credentials to all XenServers that previously are used to create new VMs.



Finish environment configuration

1. Run network verification check
2. Press Deploy button to once you are done with environment configuration.
3. After deployment is done, you will see in Horizon that all hypervisors are xen.


openstack
admin
Project
Admin
System
Overview
Hypervisors
Host Aggregates
Instances
Volumes
Flavors
Images
Defaults
System Information
All Hypervisors
Hypervisor Summary
VCPU Usage
Used 2 of 12
Hypervisor
Compute Host
Hypervisors
Hostname
Type
VCPUs (used)
megadodo
xen
0
jaglan
xen
1
cottington
xen
1
Displaying 3 items