



oVirt Node and OpenStack

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Agenda

- Introduction
- Key Features in oVirt Node
- Plugins
- OpenStack Based Node(s)
- Future

What is oVirt Node?

- Dedicated hypervisor
- Built on Fedora
- Firmware like
- TUI interface
- Several installation paths

- oVirt Engine integration (vdsm)

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Motivation

Motivation and Execution

- Bring use of oVirt Node model to other projects
 - OpenStack
 - Gluster
- Achieved using Plugins
- Remove non-core functionality from the base image (vdsm)
- Add „Flavour“ plugins

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Plugins

What are Plugins?

- Can be used to extend/customize an image
- Plugins are packaged as RPMs
- Installed offline using edit-node

```
edit-node gold-image.iso
  --repo plugin.repo
  --install ovirt-node-openstack-plugin
```
- Creates a new (minimized) ISO
- Multiple plugins can be added to an ISO

Anatomy of a Plugin

- Defined kernel arguments for automated configuration
- Scripts to apply configuration
- Configuration TUI screens (optional)
- Plugin RPM requires all package dependencies

OpenStack Flavoured Node

- Dependencies on OST Nova, Glance + Keystone
- Applies config according to kernel arguments
- TUI (RFE)
 - UI Page to configure/display OpenStack specific configuraiton

Advanced Configuration

- oVirt Node:
 - Additional configuration done through oVirt Engine
- OpenStack Flavoured Node?
 - Eventually use puppet for configuration management

Future

- Enhance OpenStack plugin
 - Add a TUI page
 - Fix configuration file creation
- Clean base image
 - Extract plugins
- Configuration Management
 - Open Issue

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Questions?

Ressources

- oVirt Node
 - <http://jenkins.ovirt.org>
 - ML: node-devel@ovirt.org
- Upstream
 - oVirt Node OpenStack Plugin
<https://gitorious.org/ovirt/ovirt-node-openstack-plugin>