OpenStack

Open source software to build public and private clouds.

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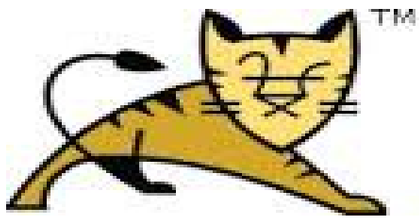
OpenStack Feedback :

Quality Assurance Infrastructure

- Production Architecture
- Needs and Goals of QA Team
- Why OpenStack ?
- Installation & Deployment
- Usage
- Feedbacks

Production Architecture

- More than 150 servers (physicals and virtuals)









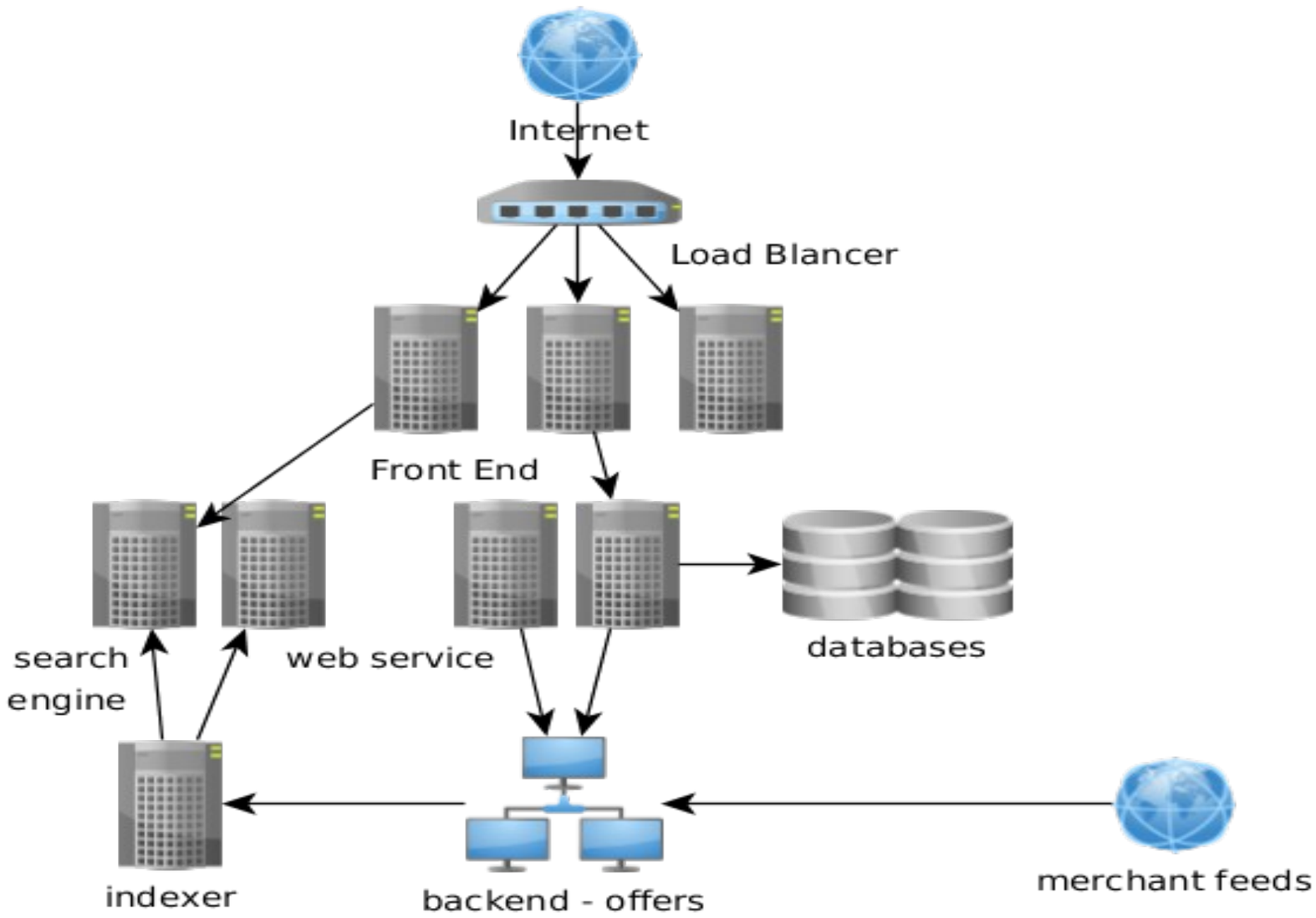








Production Architecture:



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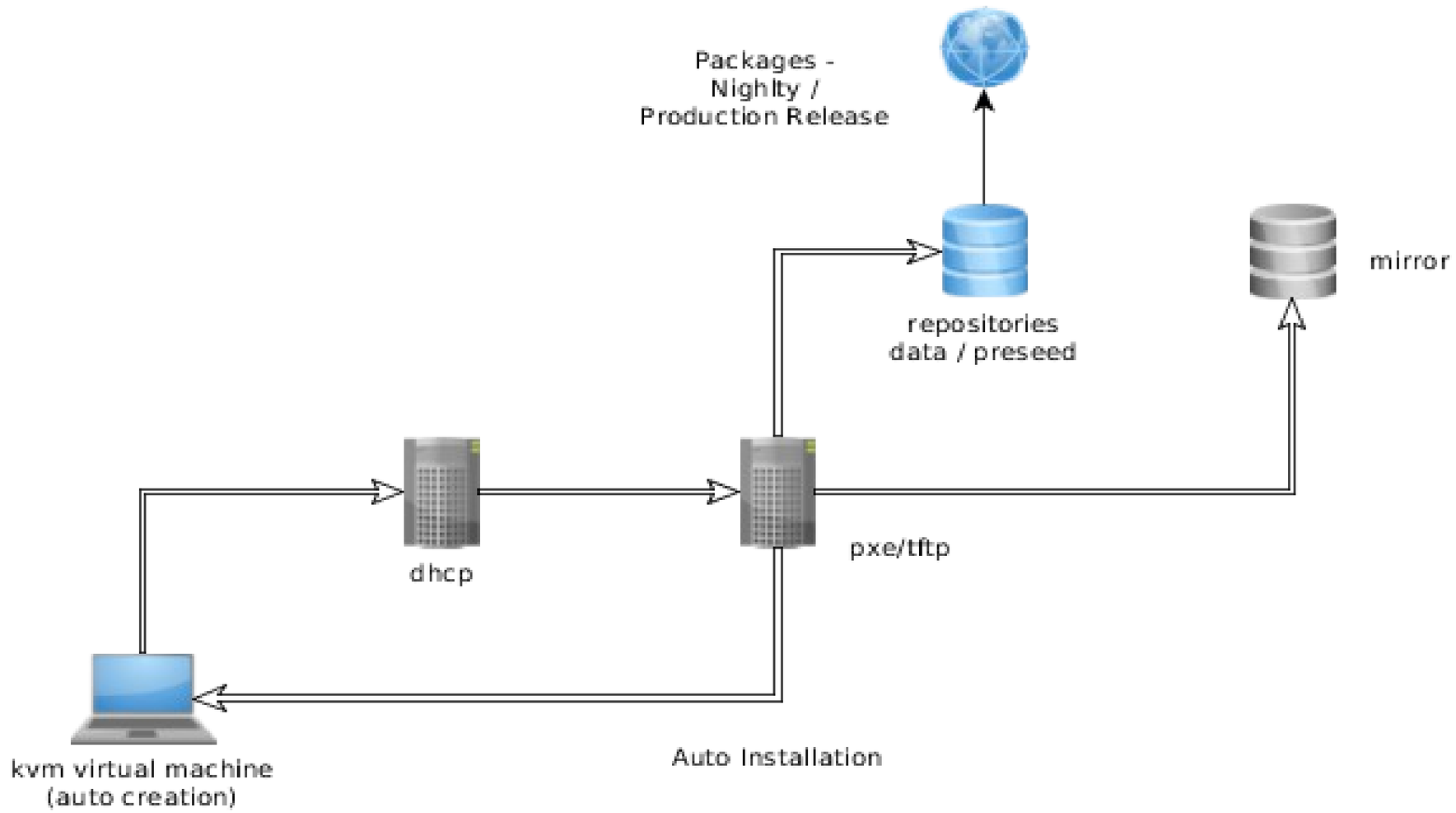
Needs and goals for the QA

- Be able to deploy on demand
- Deploying fast and easy
- Avoid manual tasks and boring actions
- Internal needs, no security issue

First process for QA infra



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Why Open Stack ?

- Scalabilty
- Quick & easy instance deployment
- *User friendly interface*
- Free software and big community
- Young and exciting project

Install & Deployment

- Open Stack was deployed on the begining of September 2013
- Using documentation and tutorial hosted on docs.openstack.org
- Thanks to a clear documentation, the installation was quick and easy

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Install & Deployment

- Hardware
  - 2 physical machines
  - debian preseed & CentOs kickstart
  - 1 puppet master
  - 1 reposotory for Debian and Rpm packages
- Open Stack
  - Version Grizzly which is the standard wheezy release
  - Components:
    - Keystone, glance, nova and horizon dashboard
  - Mysql backend

Usage

- First Project & POC
  - Creation project & images for Retargetting project
    - 2 differents web server Images (debian)
    - Redis Image (debian)
    - Adserver Image (CentOs)
  - Testing environment for each iteration of the project
- Next used:
  - Front end images
  - Search engine and indexer images
  - Loaded tests vms

Feedback

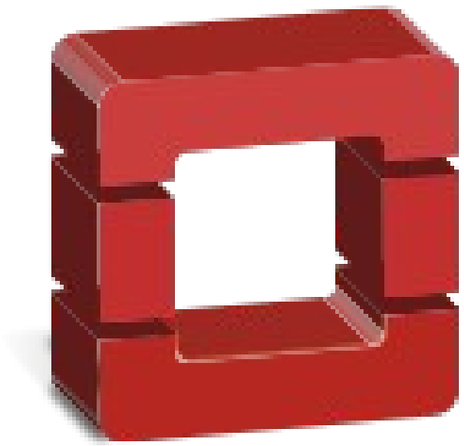
- Pro
  - Covers major needs of the projects:
    - Cool dashboard : Quick & Easy to use
    - Good integration of Debian and CentOs images
    - Easy debuging
    - Using of Flavor → a good way to scale instance
    - Openstack + puppet

Feedback

- Cons
  - Grizzly Release not very stable:
  - Upgrade not easy (on Debian)

Today

- Try to cover all applications & servers with OpenStack Images
- Puppetize each servers
- Packages every applications



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