


# Eucalyptus в Ubuntu до и после

# Предисловие



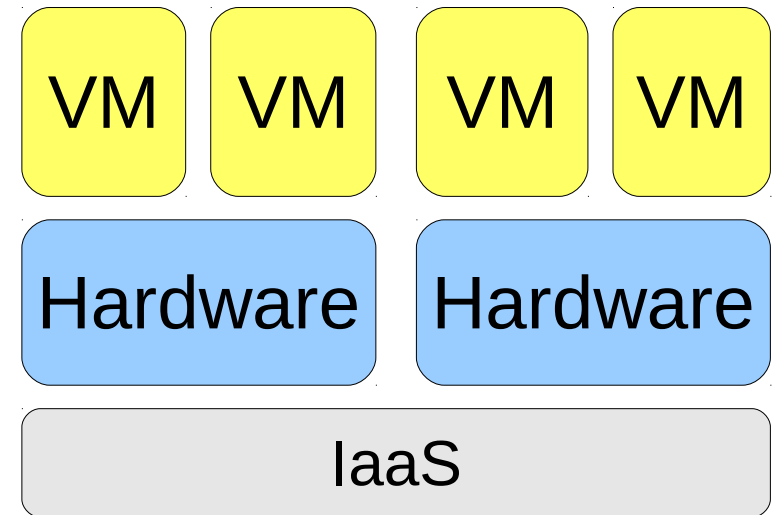
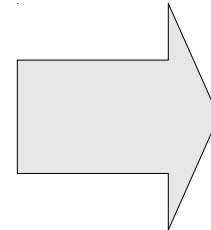
- 2009 г. - BalticGrid - Eucalyptus
  - ПО для построения
    - частных облаков (Private Cloud)
    - гибридных облаков (Hybrid Cloud)
  - Инфраструктура как сервис (IaaS)
- 2011 г. - желающие оценить/протестировать
- Изменения под дистрибутив

 EUCALYPTUS

# Для чего?

На входе

- Совокупность ресурсов: Процессоры, Память, Диск, Сеть



На выходе

- Интерфейс совместимый с Amazon
  - EC2 — запуск виртуальных машин
  - S3 — хранилище

# Проблема выбора

- ПО для построения частного облака ресурсов
  - OpenStack
  - Eucalyptus
  - CloudStack
- дистрибутив
  - CentOS, Ubuntu, Debian, FedoraCore
- способ установки
  - исходники
  - бинарники
- система виртуализации
  - KVM, Xen, VirtualBox...



# Решено использовать



- Eucalyptus
  - Ubuntu Enterprise Cloud (UEC)
    - 11.10
    - 11.04
  - способ установки: бинарные пакеты
  - система виртуализации: KVM

# Пакеты ГОТОВЫЕ к установке

После установки Ubuntu

aptitude search eucalyptus

eucalyptus-cc

eucalyptus-cloud

eucalyptus-walrus

eucalyptus-sc

eucalyptus-nc

Версии пакетов отличаются

**2.0.1+bzr1**

Версию узнаем позже

cat /etc/eucalyptus/eucalyptus-version

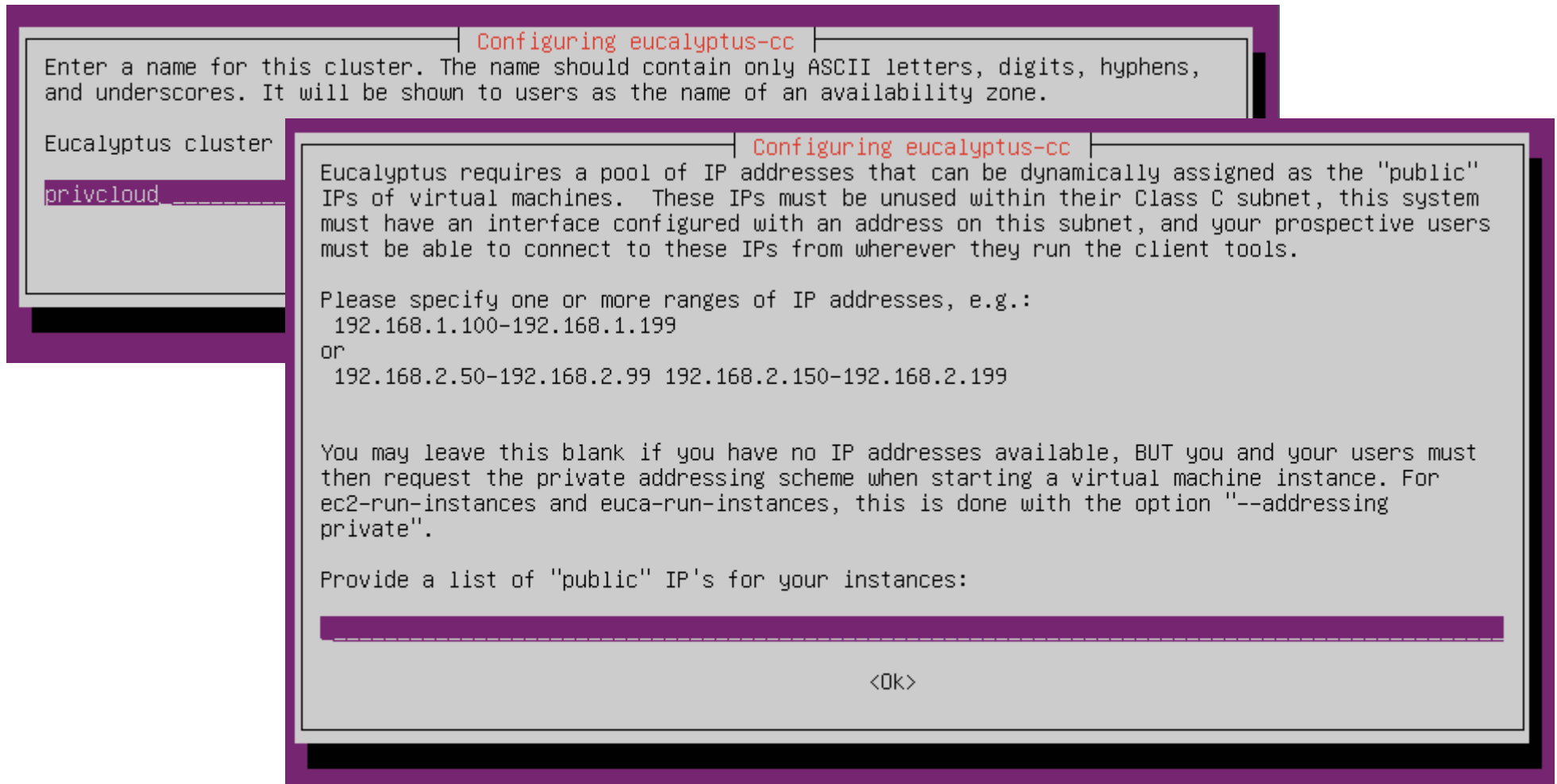
**2.0.2**

либо через веб-интерфейс

# Установка

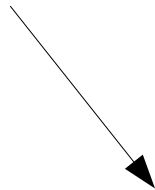
`aptitude install eucalyptus-cc eucalyptus-cloud`

Конфигурация через консольное приложение



# Автоматическая регистрация КОМПОНЕНТ

```
euca_conf --register
```



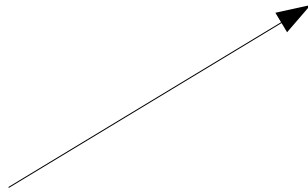
```
avahi-publish -s "$CC_NAME" _eucalyptus._tcp $CC_PORT  
txtvers=1 protovers=1.5.0 type=cluster ipaddr="$CC_IP_ADDR"
```

```
avahi-publish -s "CLC" _eucalyptus._tcp 8773 txtvers=1  
protovers=1.5.0 type=cloud ipaddr="$CLOUD_IP_ADDR"
```



# Скрипты инициализации

/etc/init.d



upstart

/etc/init

eucalyptus-cc.conf

eucalyptus-cc-publication.conf

eucalyptus-cloud.conf

eucalyptus-cloud-publication.conf

eucalyptus.conf

eucalyptus-network.conf

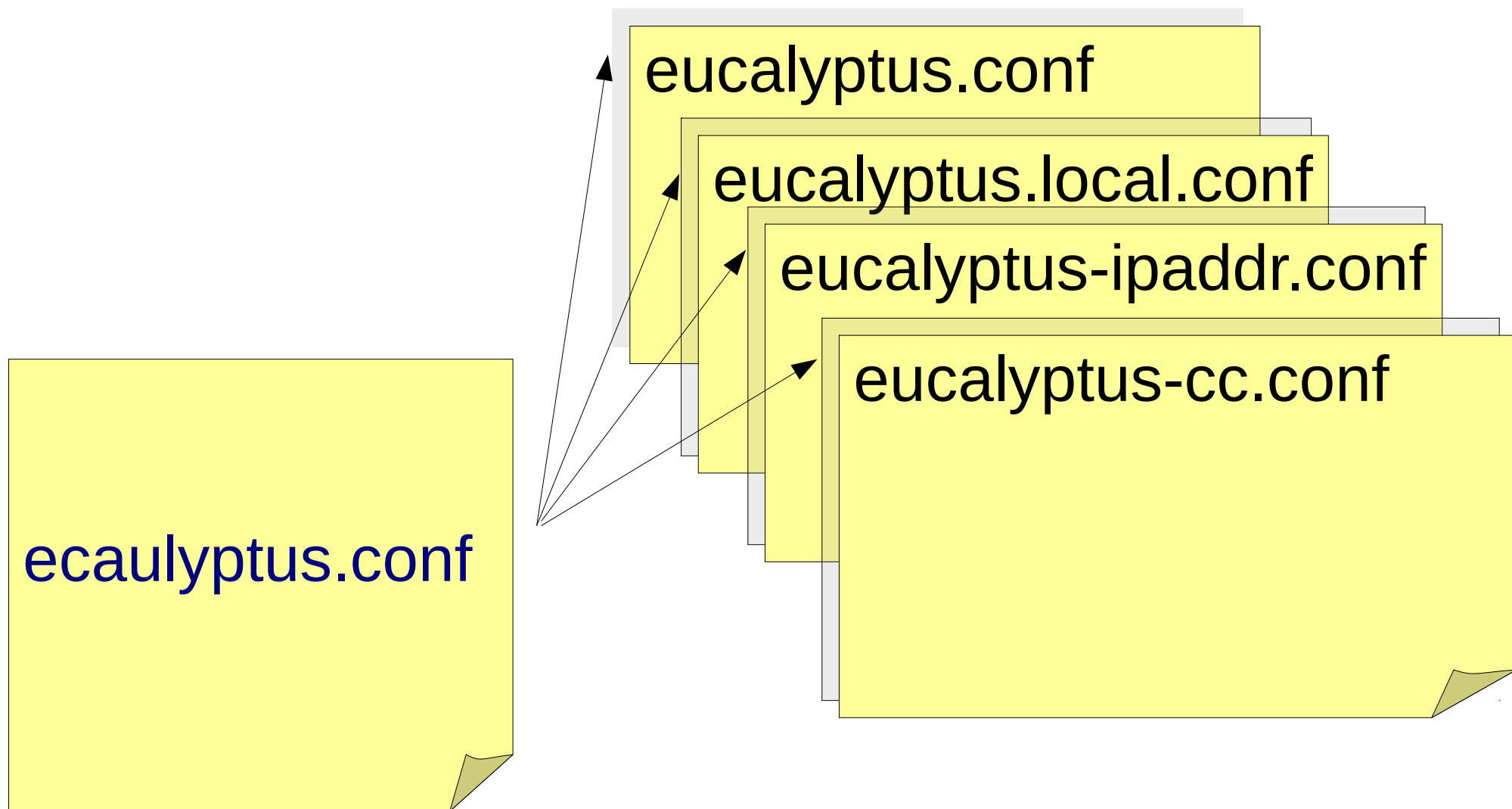
eucalyptus-sc.conf

eucalyptus-sc-publication.conf

eucalyptus-walrus.conf

eucalyptus-walrus-publication.conf

# Раздельные конфигурационные файлы




# Веб интерфейс Eucalyptus

The screenshot displays the Eucalyptus web interface. At the top, a yellow header bar contains the Eucalyptus logo on the left, the text "Your Eucalyptus Cloud" in the center, and "Logged in as admin | [Logout](#)" on the right. Below the header is a navigation menu with tabs for "Credentials", "Images", "Users" (which is active), "Configuration", and "Extras". A notification message states "Account of user 'john' was updated".

## Users

	Username	Email	Name	Status	Actions
1	john	john@example.com	John Doe	unconfirmed	<a href="#">Edit</a> <a href="#">Disable</a> <a href="#">Delete</a>
0	admin	admin@example.com	admin	active & ad	

[Add user](#)

**Eucalyptus**

Please, sign in:

Username:

Password:

Remember me on this computer

[Sign in](#)

[Apply](#) for account | [Recover](#) password

# Веб интерфейс в стиле Ubuntu

The image displays the Ubuntu Enterprise Cloud web interface, which is designed to look like the Ubuntu desktop environment. It features a top navigation bar with links for Home, Ubuntu, Business, Cloud, Download, Support, Project, Community, Partners, and Shop. Below this is a secondary navigation bar with Desktop, Server, and Services. The main content area is divided into several sections:

- Cloud configuration:** Includes fields for Cloud Host (192.168.201.2), Default kernel (eki-4CC91288), and Default ramdisk (eri-858C1357). A "Save Configuration" button is present.
- DNS configuration:** Includes fields for Domain name and Nameserver.
- Walrus Configuration:** Includes fields for Walrus host, Maximum bucket size, Buckets Path, and Space reserved for.
- Eucalyptus-certified Images:** A table listing various operating system images:

Name	Description
<a href="#">euca-centos-5.3-i386.tar.gz</a>	CentOS 5.3 i386
<a href="#">euca-centos-5.3-x86_64.tar.gz</a>	CentOS 5.3 x86_64
<a href="#">euca-debian-5.0-i386.tar.gz</a>	Debian 5.0 (lenny) i386
<a href="#">euca-debian-5.0-x86_64.tar.gz</a>	Debian 5.0 (lenny) x86_64
<a href="#">euca-fedora-10-x86_64.tar.gz</a>	Fedora 10 x86_64
<a href="#">euca-fedora-11-i386.tar.gz</a>	Fedora 11 i386
<a href="#">euca-ubuntu-9.04-i386.tar.gz</a>	Ubuntu 9.04 (jaunty) i386
<a href="#">euca-ubuntu-9.04-x86_64.tar.gz</a>	Ubuntu 9.04 (jaunty) x86_64

- Eucalyptus-compatible Tools:** A table listing tools:

Name	Description
<a href="#">euca2ools</a>	Eucalyptus Client Tools
<a href="#">other clients</a>	Eucalyptus Ecosystem Page

- Sign-in Page:** A separate window showing the login form with fields for Username and Password, a "Remember me on this computer" checkbox, and a "Sign in" button. Links for "Apply for account" and "Recover the Password" are also visible.

# image-store-cloud

Credentials Images Users Configuration Extras **Store**







ubuntu Enterprise Cloud Logged in as admin | Logout

Search

Search

All Images

All available images in the image store.

	<b>Ubuntu 9.10 - Karmic Koala (i386)</b> Image version: 20091027 Ubuntu 9.10 image for i386. <a href="#">read more...</a>	<a href="#">Install</a>
by <b>Ubuntu</b>		
	<b>MediaWiki Demo Appliance (i386)</b> Image version: 0.1 MediaWiki Demo Appliance - NOT FOR PRODUCTION USE. <a href="#">read more...</a>	<a href="#">Install</a>
by <b>Ubuntu</b>		
	<b>Ubuntu 9.10 - Karmic Koala (amd64)</b> Image version: 20091027 Ubuntu 9.10 image for amd64. <a href="#">read more...</a>	<a href="#">Install</a>
by <b>Ubuntu</b>		
	<b>M/DB Appliance</b> Image version: 20100120 Open Source API-compatible clone of SimpleDB. <a href="#">read more...</a>	<a href="#">Install</a>
by <b>M/Gateway</b>		
	<b>Ubuntu 10.04 LTS - Lucid Lynx (i386)</b> Image version: 20100427.1 Ubuntu 10.04 LTS image for i386 <a href="#">read more...</a>	<a href="#">Install</a>
by <b>Ubuntu</b>		
	<b>Ubuntu 10.04 LTS - Lucid Lynx (amd64)</b> Image version: 20100427.1 Ubuntu 10.04 LTS image for amd64 <a href="#">read more...</a>	<a href="#">Installed</a> <a href="#">How to run?</a>
by <b>Ubuntu</b>		

# Выводы

- простая установка
- новые сервисы
  - конфигуратор
  - хранилище образов
- документация
  - <https://help.ubuntu.com/community/UEC>
- начинающие пользователи
- новые ошибки
- обновленный интерфейс

Спасибо за  
внимание