



# openstack®

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AXIANS

SEMANA 1 DO ESTÁGIO

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# OpenStack

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It is a platform for managing and creating virtual servers

It's written in Python

# Serviços

- Cinder
- Nova
- Glance
- Keystone
- Neutron

# Nova

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Compute

Creates and manages virtual machines on the OpenStack server

There are tools to use Nova such as horizon and OpenStack Client

# Cinder

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Block Storage

It's a service that manages the storage of the OpenStack (may use LVM)

The storage is used by the Nova (compute service)

# Glance

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Image service

It can discover, register and retrieve VM images

# Keystone

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Identity Service

Authentication system (username and password)

# Neutron

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Network connectivity

Provides network between interface devices

It's managed by Nova



# Versions

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- Austin – October 2010
- ...
- Ocata – February 2017
- Pike – August 2017 (the one we used)
- Queens – March 2018

# Vagrant

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It is a program that facilitates the creation and management of virtual machines.



# Create a VM with Vagrant

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- 1) Vagrant init “box”
- 2) Vagrant up
- 3) Vagrant ssh

# Propoused challenge

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Create a VM with the folowing characteristics:

- Runing Ubuntu 16.04 LTS
- 10 Gb of disk capacity
- 4 Gb of RAM

# Difficulties encountered

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- The comand “sudo su –stack” did not changed the user when written from Vagrant file.
- The user “stack” didn’t have permission to the “local.conf” file.
- Not enouth RAM

# Solution to our problems

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- Vagrant always uses root
  - Create all files as root user
  - Change the permissions of files to stack user
  - Run file as stack with “su stack -c ‘command’ “
  - Increased RAM to 6 Gb
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- Vagrantfile

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To be continued...

