# Muchas Gracias :)

- ...
- ...
- Gholt
- VishIshaya
- AnneGentle

# Takeaways

- What?

- Why?

- Who?

- How?

- What Next?

# Openstack History

- NASA
- OpenNebula
- Nova - compute

- Rackspace
- Cloud Files
- Swift - Storage

# What the duck is that?

- It's cloud framework, duh !

- Written using Python !

- Apache Licensed, Yay :)
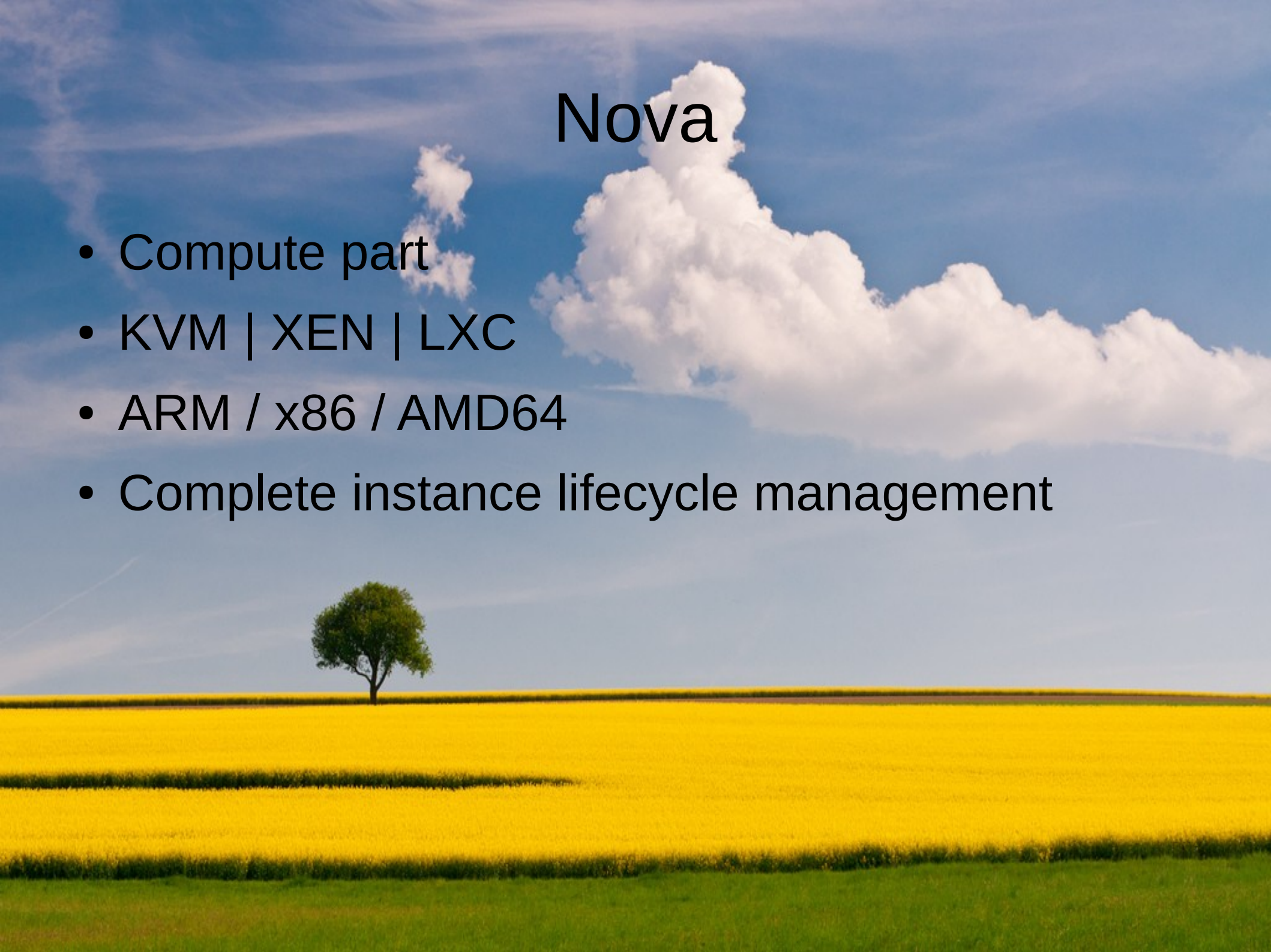
- Backed by biggies

- ...

# Components

- Nova
- Glance
- Cinder
- Quantum
- Keystone

- Swift
- Ceilometer
- Others:
  - Memcache
  - RabbitMQ

# Nova

- Compute part
- KVM | XEN | LXC
- ARM / x86 / AMD64
- Complete instance lifecycle management

# Features

- Commodity Server pool

- Flat / DHCP / VLAN / IPv6

- API access

- Distributed architecture

- Floating IPs

- Security groups and RBAC

# Quantum

- Network connectivity as a service

- Pluggable / Scalable

- API driven

- Flat / Flat DHCP / VLAN DHCP

- Dynamic Floating IPs

- Extension framework

  - IDS / firewalls

  - - Lead balancers / VPNs

# Keystone

- Identity and access management

- Passwd, token, key based access

- LDAP? Oh, yes!

- Service lists

- RBAC

- Did I mention APIs??

# Glance

- Delivery service
  - Disk and Server images
- REST in peace.. :)
- Snapshots
- Formats
- Raw, qcow2, OVF
- AMI, VHD, VDI, VMDK

Dashboard

NO. 0001

# Storage

# Cinder

- Block storage service

- Persistent

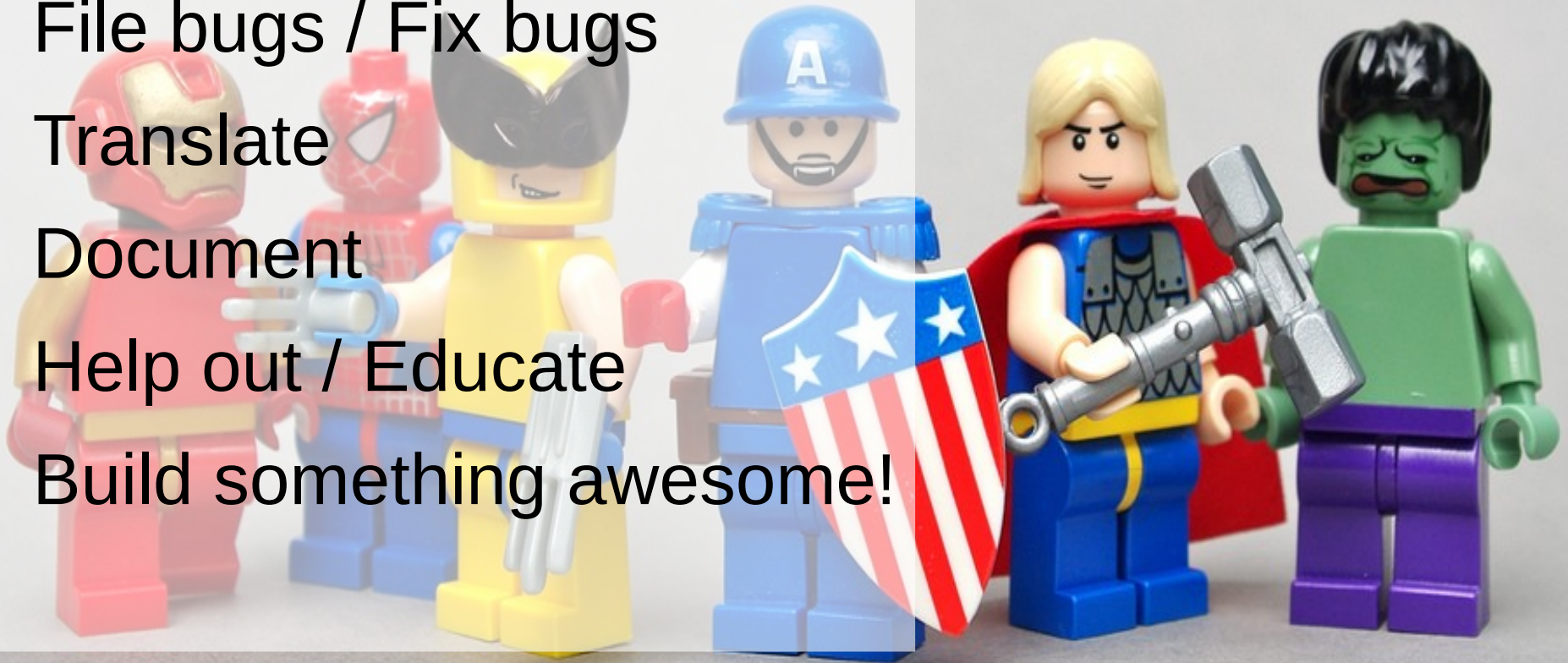- Mountable

- Analogous to EBS

Swift

# Swift

- Object Store
- Analogous to S3
- Infinite Storage
- REST based API
- Consistent Hash ring
- HEAD , PUT, GET, POST, DELETE

# Heroes are awesome

- Code
- File bugs / Fix bugs
- Translate
- Document
- Help out / Educate
- Build something awesome!

Heeeeelp!

# Image Credits.

- Flickr Users:
  - nicholall
  - --sam--
  - Lrargerich
  - Zoomion
  - Pagedooley
  - risayv
- Simple Desktops

- Flickr users:
  - Scarygami
  - Dunechaser
  - create_joy
  - Phillykevflicks
  - marcp_dmoz
  - asphericlens

# Questions??