OpenStack Poppy

http://www.poppycdn.org #openstack-poppy on Freenode

Created by: Amit Gandhi Modified Date: October 16, 2014

POWERED BY





POPPY MISSION:

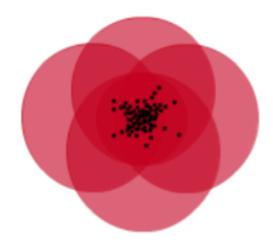
PROVIDE A GENERIC VENDOR-NEUTRAL API THAT WRAPS PROVISIONING INSTRUCTIONS FOR CDN VENDORS THAT SUPPORT IT.





Why are we building Poppy?

- There are many (hundreds) CDN providers in the market today.
- Each provider has there own custom API.
- Each provider offers the same "basic" set of functionality, and some unique differentiators.
- When a CDN customer wants to change provider, there is a high cost involved
 - CDN provider lock-in
 - Migrating applications to a new provider
- Poppy aims to build a vendor neutral API that wraps the provisioning instructions around participating CDN vendors, thus making it easier to migrate between providers, and breaking the provider lock in.





The Poppy Team (#openstack-poppy on Freenode).

- Rackspace
 - PTL Amit Gandhi (amitgandhinz)
 - Dev Tony Tan (tonytan4ever)
 - Dev Obulpathi Challa (obulpathi)
 - QE Malini Kamalambal (malini)
 - Product Mgr Megan Wohlford (megan_w)
- Hewlett-Packard
 - Dev Miguel Quintero (miqui)
- Add your name here =D



CDN Providers interested in Poppy (so far...)





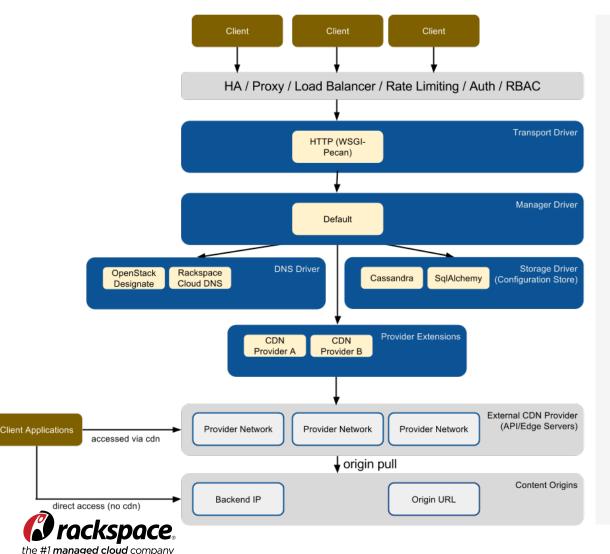






www.rackspace.com

Poppy Architecture



- Stevedore based Driver Model, allowing flexible drivers to be plug and play by operators.
- Keystone based Authentication/Authorization
- Pecan based WSGI Transport
- Cassandra Storage (sqlalchemy coming soon)
- Supports multiple CDN providers
- Interact with DNS providers for dynamic CNAMEing.
 - E.g Openstack Designate
- Provider Extensions map Poppy service configurations to the CDN Provider's API.
 - Currently building drivers for Fastly, MaxCDN, CloudFront
 - Held discussions with Akamai and Edgecast for participation

Poppy Features – Phase One

- Service Configurations
 - Specify Domains
 - Specify Origins
 - Caching Rules (TTL sitewide, per path)
 - Referrer Restrictions
 - Shared SSL Support
 - Purge Content
- Flavors
 - Operator Defined
 - Support one or more providers per flavor

- Potential Features
 - Add more support for restriction rules (eg ClientIP, region, headers, etc)
 - Video Streaming configuration
 - Dedicated SSL support
 - Load Balancing between CDN providers
- We will discuss some of this during the Paris OpenStack Design Summit.



How to contribute

We are looking for more Poppy contributors and CDN providers

- Join #openstack-poppy on Freenode
- Weekly Meetings: Thursday's @ 3pm EDT on #openstack-meeting-alt on Freenode
- Checkout the Poppy website: <u>http://www.poppycdn.org/</u>
- Pick up Bugs or Blueprints: <u>https://blueprints.launchpad.net/poppy</u>



QUESTIONS ?



THANK YOU



RACKSPACE® | 1 FANATICAL PLACE, CITY OF WINDCREST | SAN ANTONIO, TX 78218 US SALES: 1-800-961-2888 | US SUPPORT: 1-800-961-4454 | WWW.RACKSPACE.COM

© RACKSPACE LTD. | RACKSPACE® AND FANATICAL SUPPORT® ARE SERVICE MARKS OF RACKSPACE US, INC. REGISTERED IN THE UNITED STATES AND OTHER COUNTRIES. | WWW.RACKSPACE.COM