Workshop Prep / Requirements

- Grab a USB key!
- A computer with:
 - 3+GB RAM
 - VirtualBox and Vagrant Both included on USB drive
 - Windows users need ssh client (putty, cygwin)
- Copy "DesignateWorkshop" from USB drive
- cd DesignateWorkshop && vagrant up && vagrant ssh
- VM also @ http://bit.ly/1SyJRuf
- Vagrantfile @ http://bit.ly/1pCUzrn





How do I install this thing?



Graham Hayes, HPE

Designate PTL @grahamhayes graham.hayes@hpe.com mugsie @ irc.freenode.net



Kiall Mac Innes, HPE

Designate Core
@kiall
kiall@hpe.com
kiall @ irc.freenode.net





Designate Core
@timsimmons_
tim.simmons@rackspace.com
timsim @ irc.freenode.net



Eric Larson, Rackspace

Designate Core @ionrock eric.larson@rackspace.com elarson @ irc.freenode.net



Miguel Lavalle, IBM

Neutron Developer malavall@us.ibm.com mlavalle @ irc.freenode.net

Are you ready?

- Grab a USB key!
- A computer with:
 - 3+GB RAM
 - VirtualBox and Vagrant Both included on USB drive
 - Windows users need ssh client (putty, cygwin)
- Copy "DesignateWorkshop" from USB drive
- cd DesignateWorkshop && vagrant up && vagrant ssh
- VM also @ http://bit.ly/1SyJRuf
- Vagrantfile @ http://bit.ly/1pCUzrn



Protect your data!

- Anti-Virus detects and removes computer viruses.
- Backup safeguards your files.

MS-DOS Please insert the following disk in drive A:

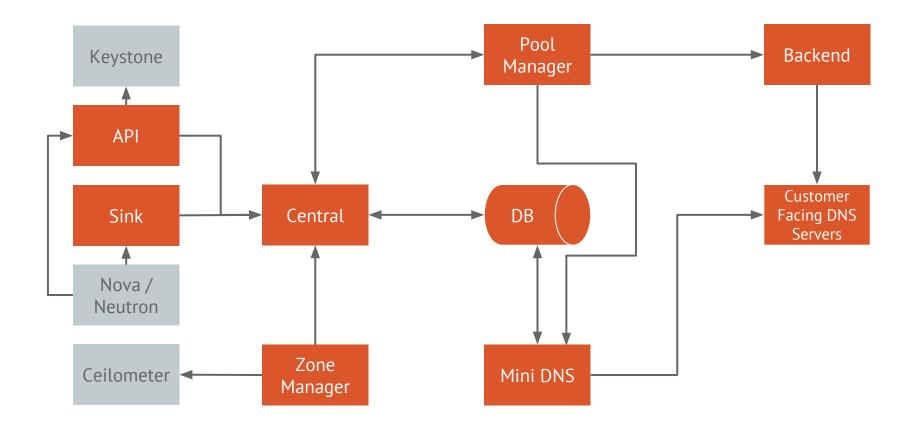
Setup Disk #3

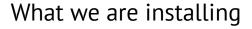
Install Designate

DESIGNATE DESIGNATE

te security.

three







Time to Follow along

Make sure your Vagrant VM is up, and you can SSH into it!

https://github.com/designate-dns/designate-workshop-packer/tree/austin



Installing All the Things!

```
$ vagrant ssh
$ ./install-designate.sh
```



Designate Configuration

```
$ less designate.conf
```



Pools Configuration

```
$ less pools.yml
```



Questions?

Next up, we'll cover how to use the service!





OpenStack CLI

```
$ ./client.sh
```



Python Bindings

```
$ python example.py
$ python short_url.py ...
```



Designate Nova and Neutron

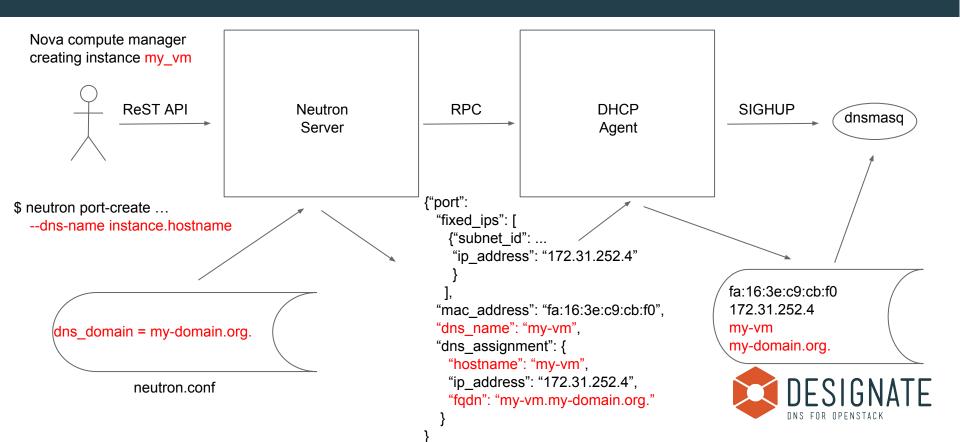


Let's create an instance

- \$ source openrc.user1
- \$ neutron net-list
- \$ nova flavor-list
- \$ nova image-list
- \$ nova boot my_vm --image <image-uuid>
 - --flavor <flavor-id> --nic net-id=<net-uuid>



Neutron's internal DNS with Nova in Mitaka

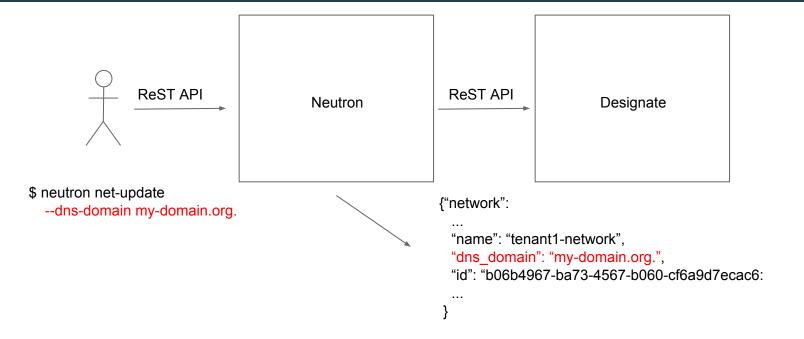


Let's confirm...

- \$ nova list
- \$ neutron port-list --device-id <instance-uuid>
- \$ neutron port-show <port-uuid>



Use case 1: Floating IPs are published with associated port DNS attributes



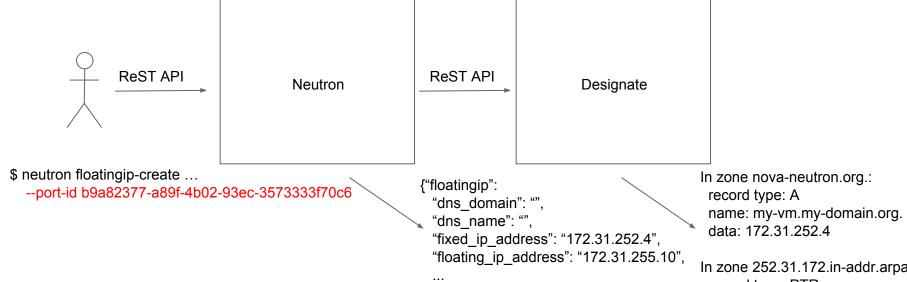


Let's create a zone and update network

- \$ openstack zone create --email malavall@us.ibm.com nova-neutron.org.
- \$ neutron net-list
- \$ neutron net-update <net-uuid>
 - --dns-domain my-domain.org.
- \$ neutron net-show <net-uuid>



Use case 1: Floating IPs are published with associated port DNS attributes



In zone 252.31.172.in-addr.arpa. record type: PTR name: 4.252.31.172.in-addr.arpa. data: my-vm.my-domain.org.



Let's confirm...

- \$ neutron floatingip-create <net-uuid>
 --port-id <port-uuid>
- \$ openstack recordset list nova-neutron.org.
- \$ source openrc.admin
- \$ openstack recordset list 252.32.172.in-addr.arpa.



Other two use cases supported

- Floating IPs are published in the external DNS service
- Ports are published directly in the external DNS service
- We will cover them in depth during Thursday's presentation:
 - "Integration of Neutron, Nova and Designate: How to Use It and How to Configure It"
 - Austin Convention Center Level 4 Ballroom D
 - 1:30pm 2:10pm





Useful Links

General OpenStack Links:

How to Contribute Primer: https://wiki.openstack.org/wiki/How_To_Contribute

Gerrit Workflow Primer: https://wiki.openstack.org/wiki/Gerrit_Workflow

Join the OpenStack Foundation: https://www.openstack.org/join/

Code Review: https://review.openstack.org/ Search for "project:openstack/designate"

Designate Specific Links:

Bug Tracker: https://bugs.launchpad.net/designate

Feature Tracker: https://blueprints.launchpad.net/designate

Specs: https://github.com/openstack/designate-specs

Documentation: http://docs.openstack.org/developer/designate

DevStack: http://docs.openstack.org/developer/designate/devstack.html

Git (Server): https://github.com/openstack/designate

Git (Client): https://github.com/openstack/python-designateclient

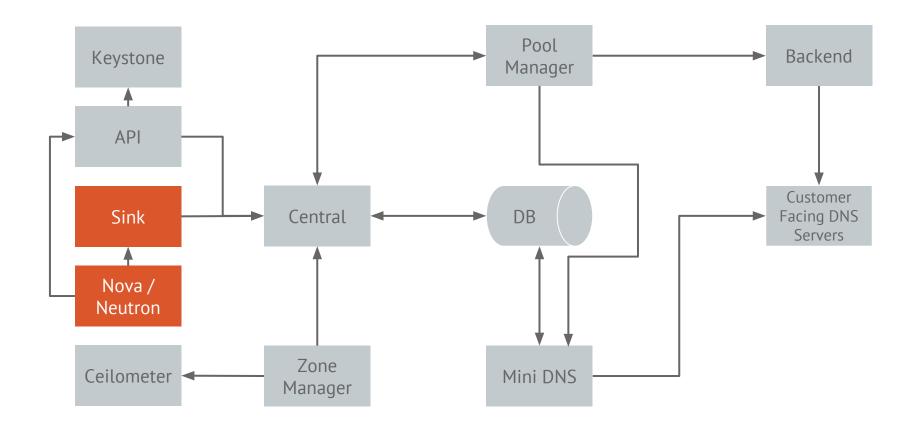


Getting Involved - Bare Necessities

- Get a good IRC client.. You'll need it.
 - Join #openstack-dns and introduce yourself:)
- Attend the weekly IRC meetings:
 - Wednesdays @ 17:00 UTC in #openstack-meeting-alt
 - Agenda https://wiki.openstack.org/wiki/Meetings/Designate
- File a bug/blueprint for your idea Then add it to the agenda...
 - It's OK to only have a rough sketch of the idea that's usually enough to begin discussions.







What are we configuring?





Slides

http://bit.ly/1T3cRcV



