

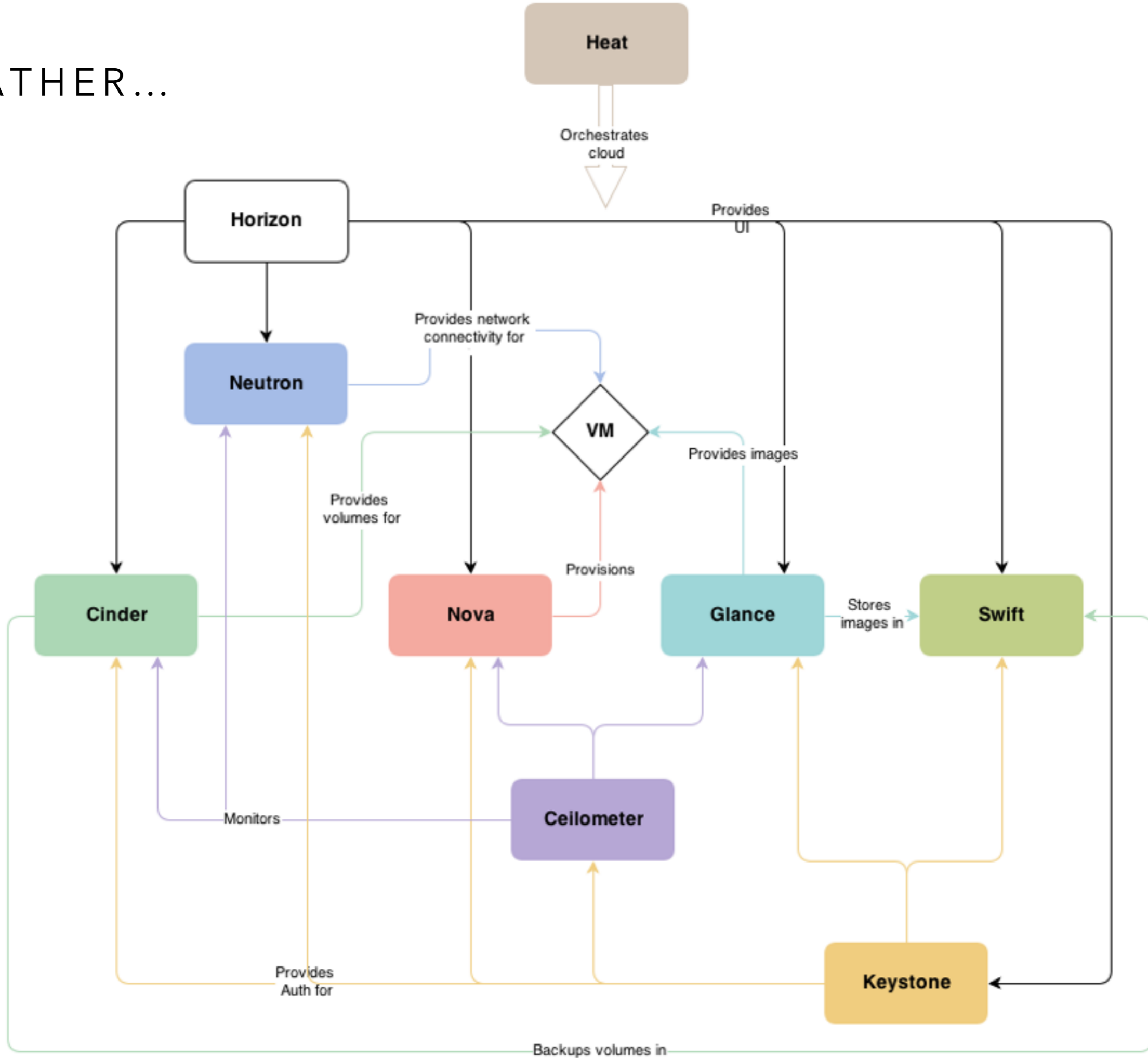
JEFF KRAMER (HP HELION)

SCALING HADOOP IN & OUT OF THE PRIVATE CLOUD

PRIVATE CLOUDS ARE LIKE...



RATHER...



OPENSTACK PRIVATE CLOUD OFFERINGS

- HP
- IBM
- Canonical
- Red Hat
- Blue Box
- EMC
- Cisco
- or Roll Your Own!

YOUR PRIVATE CLOUD



WELCOME TO THE ~~SAVANNA~~ SAHARA



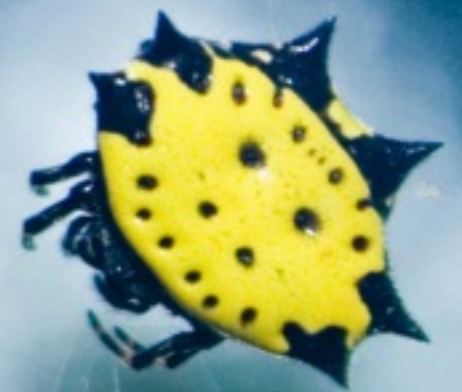
...OR NOT?

BRING YOUR DATA



...OR NOT!

IT'S ALL ABOUT PLACEMENT



ELEPHANTSTACK



HARD AND SQUISHY BITS...



HADOOP AS A SQUISHY WORKLOAD



CHOCOPOLIS

High Quality Pleasure



DOH

CHOCOLATE MARSHMALLOWS!



- Project ^
- Compute ^
- Overview
- Instances
- Volumes
- Images
- Access & Security
- Object Store v
- Orchestration v
- Data Processing v
- Identity v

Overview

Limit Summary



Instances Used 12 of 50



VCPUs Used 24 of 50



RAM Used 48GB of 50GB



Floating IPs Allocated 5 of 10



Security Groups Used 3 of 10



Volumes Used 0 of 10



Volume Storage Used 0Bytes of 1000GB

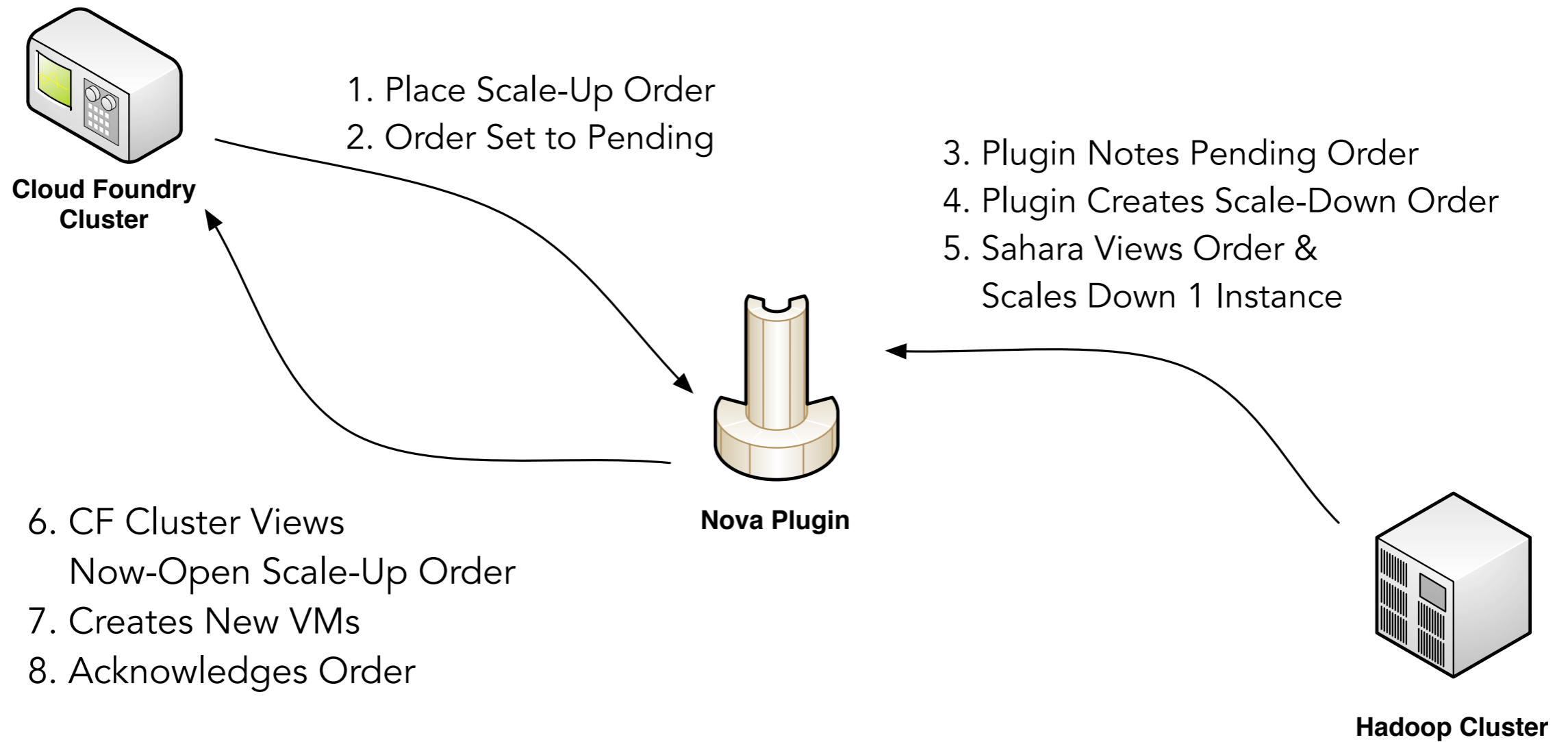
Usage Summary

Select a period of time to query its usage:

From: To: The date should be in YYYY-mm-dd format.

Active Instances: 12 Active RAM: 48GB This Period's VCPU-Hours: 422.56 This Period's GB-Hours: 8451.11 This Period's RAM-Hours: 865393.42

MAKING CHOCOLATE MARSHMALLOWS



THE NO-QUOTA, PRIORITY BALANCED, UTOPIAN PRIVATE CLOUD FUTURE

- Quotas are a Pain
- Workloads are Opaque
- Workloads are Spiky
- Workloads Know Themselves
- Cloud Managers Need More Knobs
- Bindings Need to be Loose



OTHER STUFF

- Whither Mesos?
- CloudBreak
- DockerDockerDocker



new!

Recipes
on back!

Jet-Puffed Stacker Marshmallows



s'mores in seconds!

Serving
Suggestion

MARSHMALLOWS

A
FAT-FREE
FOOD

16 OCT 2012
4 A X

NET WT
8 OZ
(226g)



Jet-Puffed Stacker Marshmallows

github.com/HPCCloud/os-workloads

@jeffk