

Weekly Report for Week Ending 04/05/2013

IBM - OpenStack

Justin Anderson, John Nagel, Cesar Ramirez, John Rensberger

Status Summary

This week has been filled with notable accomplishments. Over the weekend Cesar and John rebuilt OpenStack on the physical hardware and completed a Folsom install. There were some initial problems with Quantum and tunneling to the tenants, however we were able to resolve them by the end of the week. We also started testing Savanna and were able to successfully build a cluster from the command line interface. We have also been working on getting Savanna to appear in Horizon. Throughout all of this we have been updating documentation.

Top Highlights

- Have a functioning multi-node Folsom development environment
- Got Quantum working with NAT (Network Address Translation)
- Got Savanna working via CLI

Top Lowlights

- Haven't been able to completely figure out the metadata service yet, though this isn't a priority anyway

Accomplishments vs. Plan

- Accomplishment - Rebuild OpenStack on physical hardware
 - Since Grizzly was overly buggy, we rebuilt our development environment on Folsom. We were even able to get Quantum to work.
 - Owner: John and Cesar
 - Status: Completed
- Accomplishment - Quantum is working with NAT
 - We finally got quantum working using NAT so VMs can now access the Internet.
 - Owner: John and Cesar
 - Status: Completed
- Accomplishment - Deploy Savanna
 - We installed Savanna and began testing it. Our installation is likely going to be improved later, but what was done is working and works great as a proof-of-concept.
 - Owner: Jack
 - Status: Completed
- Plan - Get a working panel on Horizon for Savanna
 - Currently to launch a Hadoop cluster, one must use the CLI. We wish to set up a panel on Horizon to accomplish this task.
 - Owner: Jack and Justin
 - Status: In Progress
- Plan - Documentation
 - We are working on documenting everything we do along the way. This documentation will walk future users through the process of implementing and deploying an OpenStack environment as well as any extra components that we add.
 - Owner: Team
 - Status: In Progress

- Plan - Install Grizzly on production environment
 - Since the CS department's current install of Folsom isn't really functioning, we are going to get this environment working. Since Grizzly was released this week we also plan to install this version.
 - We will include thorough documentation for the department to reference if needed.
 - Owner: John and Cesar
 - Status: Cesar is going to try to get a fresh install of Ubuntu 12.04.2 LTS on each node tomorrow so we can do this over the weekend.

Goals for Next Week

- Work on getting a panel working for Savanna on Horizon
- Document our process and how we accomplished our goals (how-to's)

Risks

ID#	Status	Risk	Owner	Probability / Priority	Impact	Trigger	Recommendation / Resolution
R001	Complete	Unable to complete design document	Team	100%/Medium	Will set back our progress	Decision with team and mentors during next meeting	We will complete this document by Monday evening for review on Tuesday

Issues

ID#	RID#	Status	Issue	Owner	Due Date	Impact	Recommendation / Resolution
I001		Resolved on 02/05/2013	Need access to more hardware	Team	02/05/2013	Having more hardware will provide us a system that is in a controlled environment	Contact Robert

Project Success Indicator	02/ 01	02/ 08	02/ 15	02/ 22	03/ 01	03/ 08	03/ 15	03/ 22	03/ 29	04/ 05	04/ 12	04/ 26	05/ 03
Planned milestone events are being met	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			
Budget is under control	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			
Quality control results are within specifications	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			
Change control process indicated minimal requests for change	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			
Project resources are being supplied per schedule and skill levels are adequate	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			
Project team appears to be cohesive and reasonably happy	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			
Users seem satisfied with progress of the work	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			
Top management remains visibly supportive of project goals	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			
Third-party vendors are delivering quality items on schedule	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			
Risk events are under control and nothing unusual is appearing	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			
Project training program is progressing according to plan	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			
Relationships with support groups appear to have no identifiable issues	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			