

Weekly Report for Week Ending 04/12/2013

IBM - OpenStack

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Status Summary

This week was a continuation from last week's tasks. Since the latest version of OpenStack, named Grizzly, was released last week, John and Cesar have been working on getting the production environment for the department configured using this version. Throughout the week we've been slowly bringing more services up as documentation for the new version is not mature yet, and we now believe everything but Quantum is working. Jack and Justin have been pouring their time into working with Savanna. We're still getting up to speed with their scripts and are having to closely watch the repository as there are daily commits. We've also been trying to get the Horizon module of Savanna to work in Horizon but have not been able to get it to function completely as desired.

Top Highlights

- Got some Horizon functionality working with Savanna.
- The production environment configurations are well underway running Grizzly.
- Metadata service has been fixed on the development environment.

Top Lowlights

- Quantum is being ornery in the production environment.
- A full implementation of Savanna was delayed due to networking issues in the development environment.

Accomplishments vs. Plan

- Accomplishment - [Project Description Draft](#)
 - As a closing task to the capstone course we're required to provide a brief description and video of our project. We completed the first draft of this which includes a description and image. This will be updated again toward the end of the course.
 - Owner: Team
 - Status: Completed
- Accomplishment - Metadata Service in Folsom
 - The development environment is currently running on Folsom and John was able to fix the metadata service. It simply required adding a route, which solved the problem.
 - Instances still get a 404 from the metadata service as nothing is there, but this is fine as they no longer spend 2 minutes timing out before finishing their bootup process.
 - Owner: John
 - Status: Completed
- Plan - Configuration of Production Environment
 - The production environment installation is well under way. There's a virtual controller that is mostly working minus Quantum. We have one physical compute node that is running instances but they're handicapped without Quantum functioning fully. We also have a temporary virtual node that is being used to test Cinder, though this is a lower priority.
 - Owner: John and Cesar
 - Status: In Progress
- Plan - Metadata Service in Grizzly
 - The metadata service has been updated in Grizzly and now appears to be controlled by Quantum. As a result there are more configuration options and we're not focusing on this until Quantum is able to carry out its primary tasks.
 - Owner: John
 - Status: In Progress

- Plan - Implement all of Savanna's functionality
 - Not all of the functionality that Savanna provides for Hadoop cluster management is working correctly yet, as we were blocked while trying to get the remaining networking issues resolved. This has been completed so Savanna should be fully functional this week.
 - Owner: Jack
 - Status: In Progress
- Plan - Integrate Savanna into the OpenStack dashboard
 - The primary interface to Savanna is its REST API, but there is also a Horizon dashboard plugin available which we will integrate.
 - Owner: Jack and Justin
 - Status: In Progress
- Plan - Documentation
 - We are continuing to document things as we complete each task, especially things that are non-obvious and those that gave us trouble and differed from the official documentation.
 - Documentation will be provided for end-users and administrators, as well as special documentation with respect to using Savanna.
 - Owner: Team
 - Status: In Progress

Goals for Next Week

- Finish implementing Grizzly in the production environment
- Complete Savanna setup, including dashboard panel
- Continue working on documentation
- Begin drafting final presentation

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/ 19	04/ 26	05/ 03
Planned milestone events are being met	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			
Budget is under control	OK	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	OK			
Change control process indicated minimal requests for change	OK	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	OK			
Project team appears to be cohesive and reasonably happy	OK	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	OK			
Top management remains visibly supportive of project goals	OK	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	OK			
Risk events are under control and nothing unusual is appearing	OK	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	OK			
Relationships with support groups appear to have no identifiable issues	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			