Weekly Report for Week Ending 04/26/2013
IBM - OpenStack

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Status Summary

This week we spent the majority of our efforts working on our sprint 4 closure documentation and preparing for final presentation. We also made plans to do a presentation with Computer Science faculty and pre-final presentation with IBM. Unfortunately we also discovered that some packages were mistakenly updated on the production environment's controller. This eventually lead us to rebuild the controller. We have since restored all service and believe the stability of the system is now better than it was before.

Top Highlights

- Completed the final sprint and post-mortem report
- Finished majority of our documentation for future usage
- Worked and prepared for the final presentation

Top Lowlights

- Rebuilt controller for production environment

Accomplishments vs. Plan

- Accomplishment - Production Environment Fixes
  - Early in the week we found that SQLAlchemy had been mistakenly upgraded and was causing problems with Cinder. We decided to try to resolve the problem by manually downgrading SQLAlchemy but that ended up breaking most of the services on the controller.
  - In addition to the SQLAlchemy problem, we have been doing a significant amount of testing on the production environment, including installing some extra packages for debugging and testing. Though it's inconvenient to rebuild the controller, we found this to be an opportunity to deliver a clean production environment and decided to go ahead with the process.
  - To accelerate out deployment time and pursue high-availability for the environment we decided to also distribute some of the services at this time too.
    i. The controller is now only handling services for Keystone, Nova APIs, RabbitMQ, and Quantum (+plugins). John configured these services.
    ii. Since Savanna is young and updating regularly we decided to give it it's own VM to minimize it updating packages that other services may have tighter version requirements for. Jack configured this service.
    iii. We also found Glance to sometimes cause performance issues on our controller when doing taxing IO operations (adding and deploying large images) and have since decided to move all storage related activities to their own VM. This VM has Glance and Cinder services installed and would be the ideal place for Swift if the department were to decide that they want to use it in the future. Cesar configured these services.
  - These changes have all been completed and service has been restored. We anticipate this configuration to be more supportive of high availability and overall more stable.
  - Owner: Cesar, Jack, and John
  - Status: Complete
- Plan - Documentation
  - We are continuing to document tasks as we complete them, especially things that are non-obvious and those that gave us trouble and differed from the official documentation.
  - A new section of documentation focused on the dashboard was added. Each section of Horizon has a screenshot and a small description.
  - The documentation for Quantum and Cinder were updated.

- - Documentation will be provided for end-users and administrators, as well as special documentation with respect to using Savanna.
    - Owner: Team
    - Status: In Progress
  - Plan - LDAP Testing
    - John has been testing LDAP configurations this week and is going to continue to try to get it to work over the weekend. This isn't a super high priority, so if it ends up taking several hours it will likely be dropped.
    - Owner: John
    - Status: In Progress
  - Plan - Configure Live Migrations
    - Grizzly allows for live migrations though this requires a few more configurations to be made. John plans on testing this in the development environment over the weekend. If successful he will replicate it to the production environment.
    - Owner: John
    - Status: In Queue

Goals for Next Week

- Do a test run of our final presentation with IBM people
- Give an excellent final presentation
- Complete the final report
- Prepare department demo

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