Abstract

OpenStack is an open source cloud computing platform which is a joint venture by Rackspace and NASA. OpenStack consists of many projects such as Nova (Cpute), Swift (Storage), Neutron (Network), Glance (VM Images) etc. Swift is used as Object storage. Amazon Web Services provide way of managing cloud instances; the similar purpose can be achieved by OpenStack at virtually no cost. System aims at developing a private cloud using OpenStack and building a website for the purpose of knowledge sharing. This system consists of firstly, building a private cloud using OpenStack for object based storage as well as compute node and secondly a website to implement knowledge sharing through the medium of web. Motivation of this system is to fill the gap between the growing technology and its use in academia. Key features for this system include abstraction of complexity, simplicity and fault tolerance of object storage.
storage and managing of cloud instances.

References

- OpenStack Documentation: http://docs.openstack.org
- OpenStack Architecture: http://openstack.org

Index Terms

Computer Science  Distributed Systems

Keywords

Cloud  Instances  OpenStack  REST  Swift