Openstack Cloud Installation and Uninstallation Automation

Presenter: Kasturi Kiran Ghonsikar

First Reader: Dr. Jinsong Ouyang

Second Reader: Dr. Jun Dai

Today with fast growing technology and increasing computing needs, industry is opting for deploying and using cloud to fulfill their extensive computing requirements. Deployment of cloud is a lengthy and convoluted process. Manual installation of cloud infrastructure takes a lot of efforts and time. Setting up cloud on a new infrastructure in a new environment has a lot of challenges and needs to be done manually for troubleshooting.

This project involves manual deployment of Openstack Cloud to overcome these challenges and setup an Openstack Infrastructure as a Service platform on a virtual infrastructure. Further, automation is done for installation and uninstallation of Openstack Cloud to overcome the overwhelming process of it’s manual deployment.

Automation reduces the efforts in tedious process of manual cloud deployment and saves a significant amount of time required to install a cloud infrastructure. Automation of installation and uninstallation is done using a bash script in this project. Execution of this script will setup the complete cloud infrastructure and allow users to start using it for their computing needs.