- 1. Setup Open Metal on-demand Server Provider
 - a. Cloud Core- Small
 - b. Set Budget for limitation
 - c. Open Terminal to get SSH Key
 - d. Assets(only access first node) → terminal commands
 - e. Horizon → Identity → Create Project

f.

g. Install Open Stack CLI

Dev Stack(Recommeded and pre configuered):

• The environment used for learning

OpenStack Automation:

- Kolla or Open stack ansible
 - Kolla-Ansible
 - Rollback is accessible in case errors are made
 - Docker compatible
 - Koyobe learning curve
 - More complete
 - OpenStack Ansible Pros Vs. Cons
 - Bare metal approach
 - Possibility to run Services in LXC (Linux Container)
 - OpenStack-Helm
 - Better for exclusively Kubernetes
 - o Triple O
 - high levels of automation
 - Not enough documentation
 - Charmed OpenStack
 - well-suited for managing large-scale OpenStack clouds on Ubuntu based on Juju

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- Terraform Vs Ansible Vs Juju
 - Kolla Ansible is specifically designed for deploying OpenStack clusters
 - Terraform excels at provisioning raw infrastructure across multiple clouds
 - Juju is for deploying applications on top of that infrastructure with advanced management capabilities
- Terraform and Ansible is best option.

- Hardware Constraints
- Comparison
- Blog about multi-node kolla with <u>LXD container</u>
- Something to note for Kolla

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