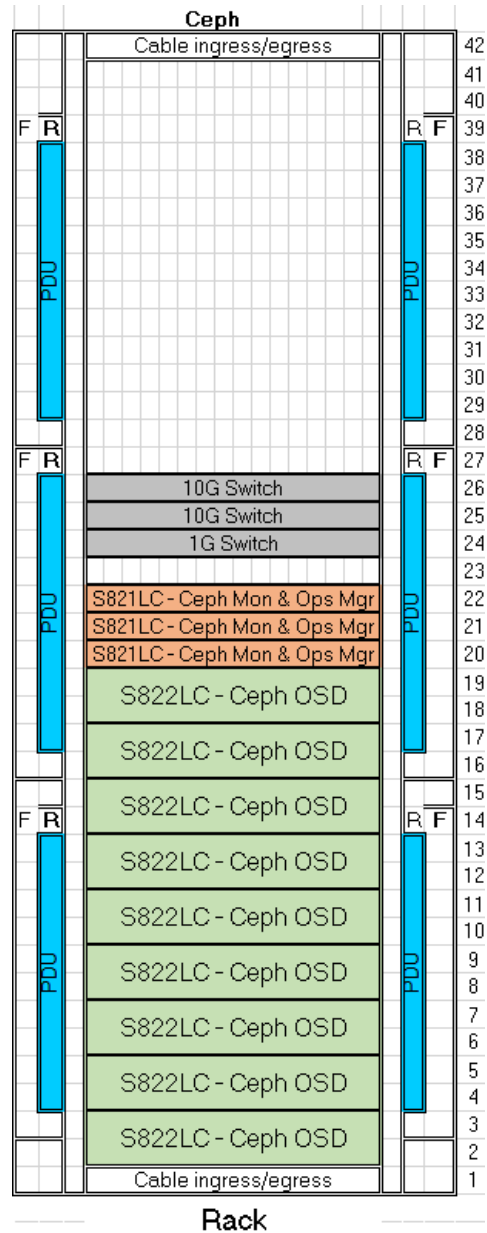


High Level Component Architecture Diagram – Ceph



Ubuntu 16.04 (all nodes)
Software:
OpenStack Newton
- Horizon, Keystone, RabbitMQ, Galera, etc.
Ceph Jewel
Operational Management
- Nagios Core
- ELK Stack (Elasticsearch, Logstash, Kibana)

Network : (HA) – Bonding
2 x Mellanox SX1410 (8831-S48)
1 x Lenovo G8052 (7120-48E)

Rack:
QTY: 1
SlimRack 7965-94Y (Standard 19" rack)
PDUs x 6: Each node should have 2 power cords
cabled to two different PDUs

Ceph Monitor & Operational Management QTY: 3

Server Config: (Stratton S821LC MTM 8001-12C)
(1U)
16 Cores (2.3Ghz), 128 GB,
1 x 1.9TB SSD (1.2 DWPD)
2 x 2-Port 10G NIC (Intel 10G / Mellanox)

Ceph Nodes : QTY: 9

Server Config: (Briggs S822LC MTM 8001-22C)
(2U)
16 Cores (3.32 Ghz), 128 GB

- (OS) 1x 240GB SSD (1.2 DWPD)+ (Journal) 2x 240GB SSD (1.2 DWPD) + (Storage) 9 x 8TB SAS HDDs (~72TB)
- 2 x 2-Port 10G NIC (Intel / Mellanox)
- Integrated Sata Controller
- SAS RAID controller based on LSI 3008L

Compute + Memory may need to be altered based on actual performance requirement

High Level Network Architecture Diagram

