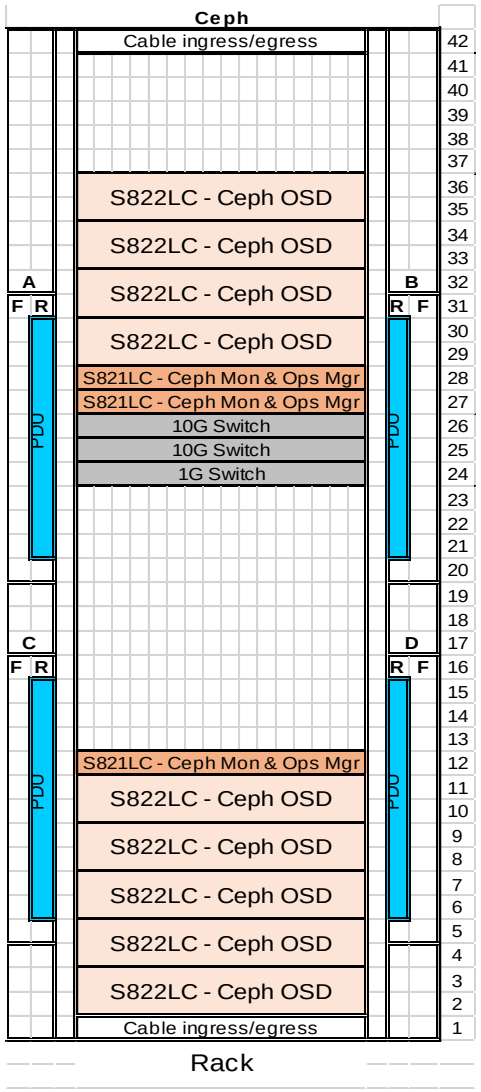
High Level Component Architecture Diagram – Ceph



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

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

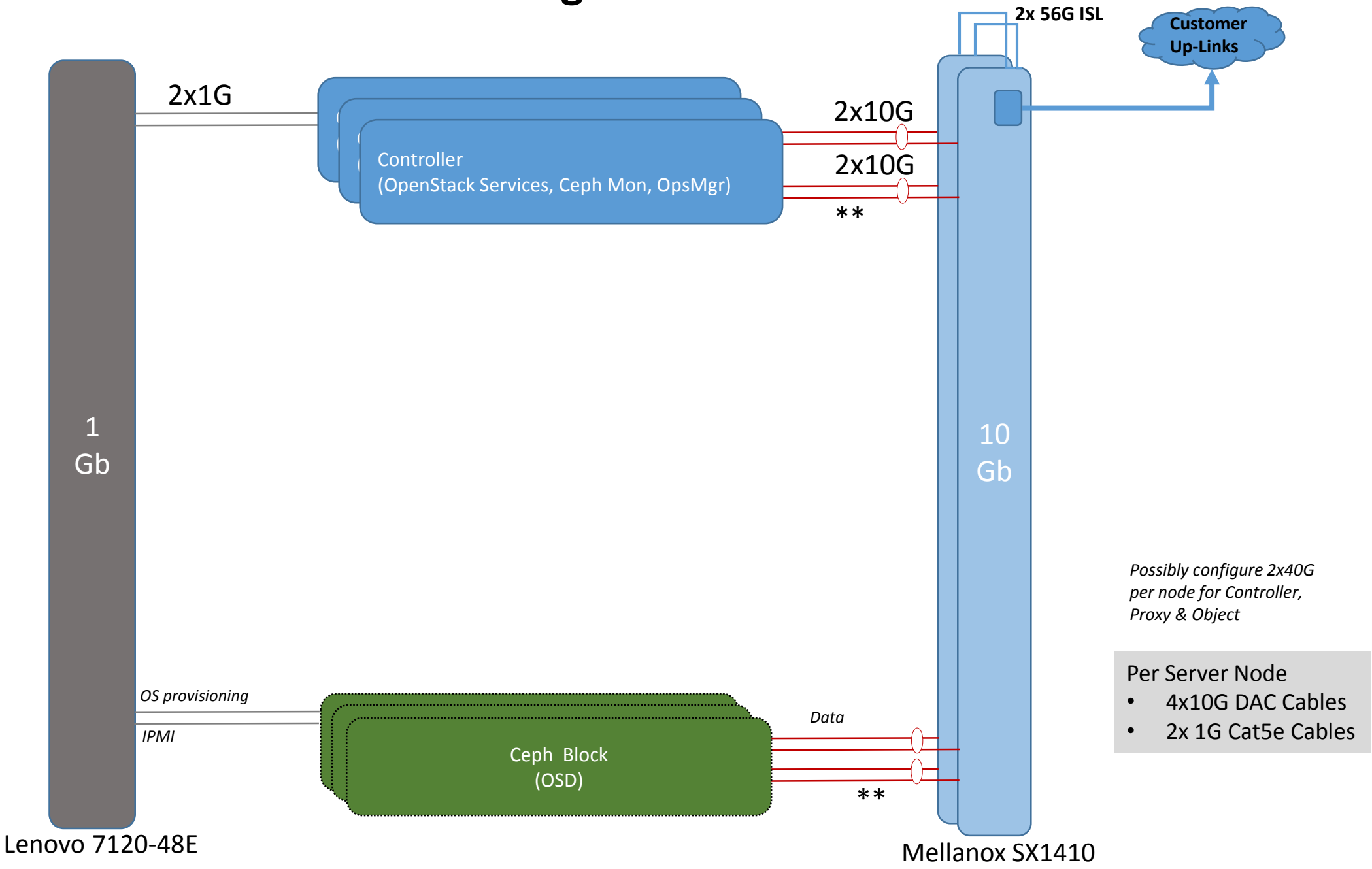
Server Config: (Briggs S822LC MTM 8001-22C) (2U)
16 Cores (3.32 Ghz), 128 GB
- (OS) 1x 240GB SSD (1.2 DWPD)+ (Journal) 2x 240GB SSD (1.2 DWPD) + (Storage) 9 x 8TB SAS HDDs (~72TB)
- 2 x 2-Port 10G NIC (Intel / Mellanox)
- Integrated Sata Controller
- SAS RAID controller based on LSI 3008L

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 4: Each node should have 2 power cords cabled to two different PDUs

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

High Level Network Architecture Diagram



Possibly configure 2x40G per node for Controller, Proxy & Object

Per Server Node
- 4x10G DAC Cables
- 2x 1G Cat5e Cables