Appendix

The following are the wiring schematic of various pod configuration.

Wiring Schematic of Various POD Configurations

Figure 1: M4 Full-On With Cisco VIC

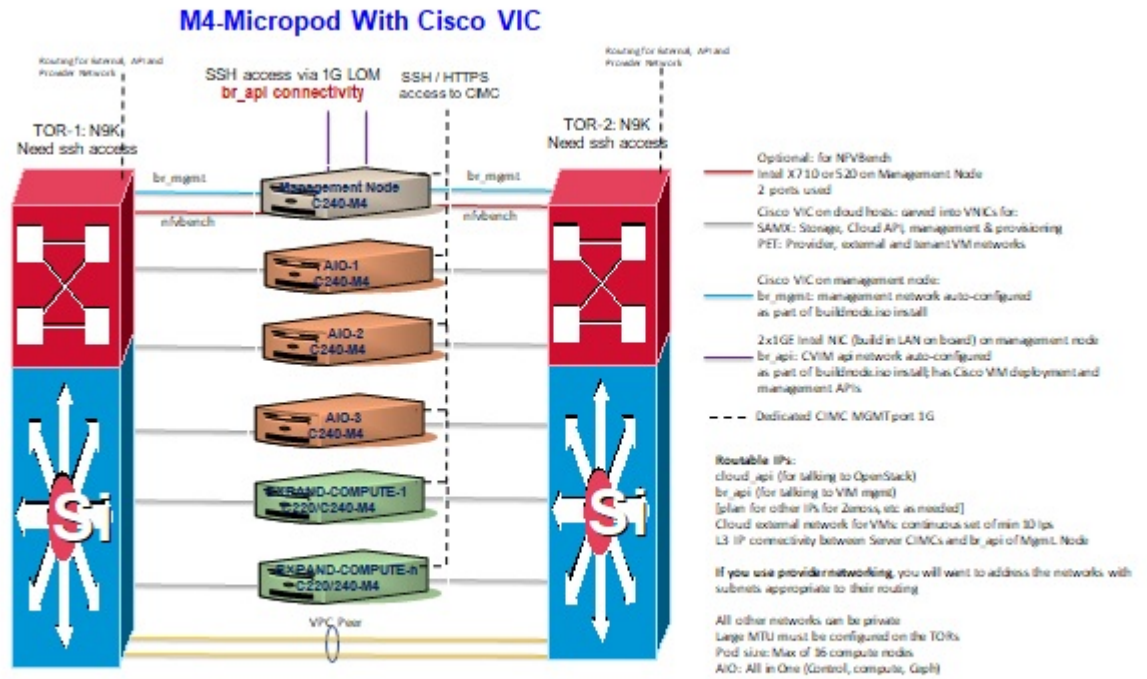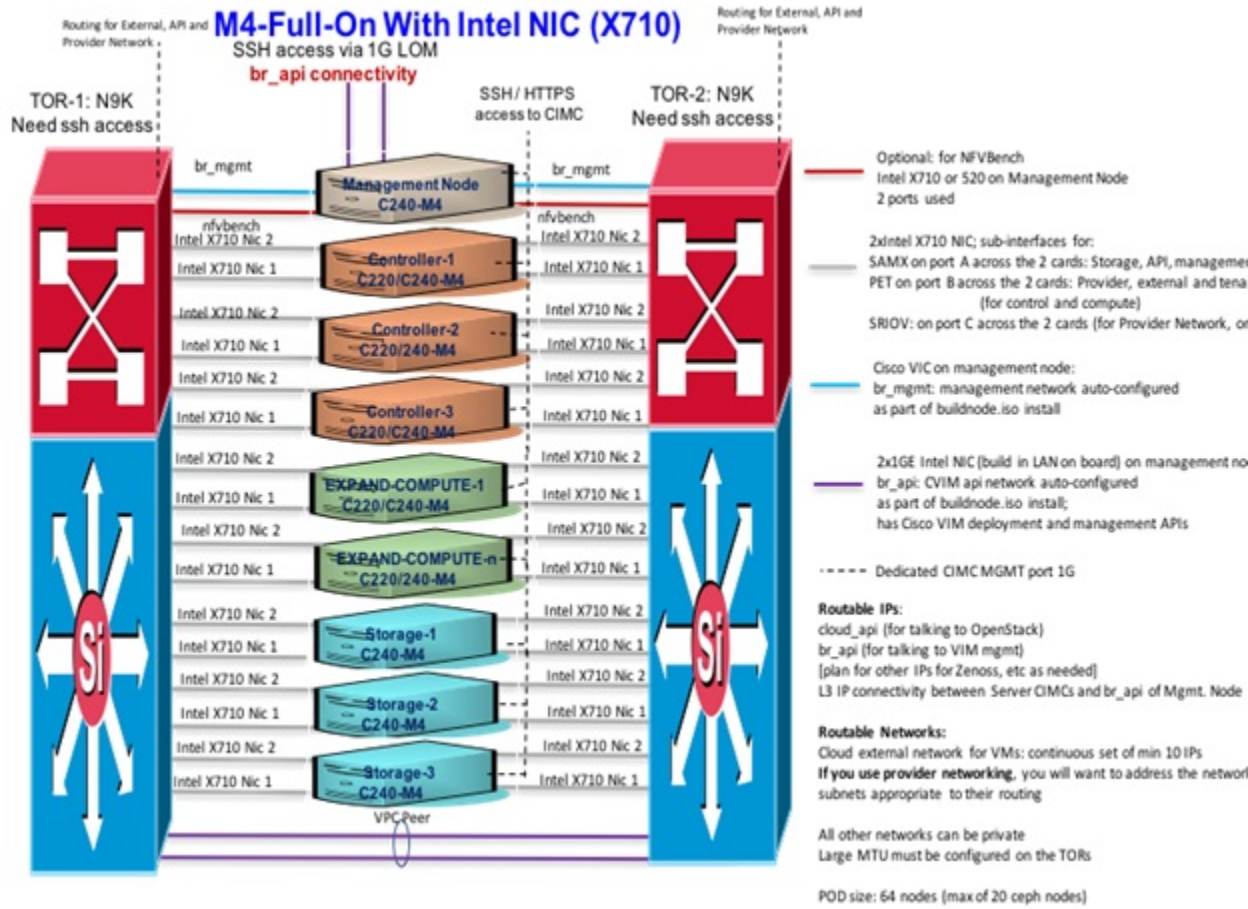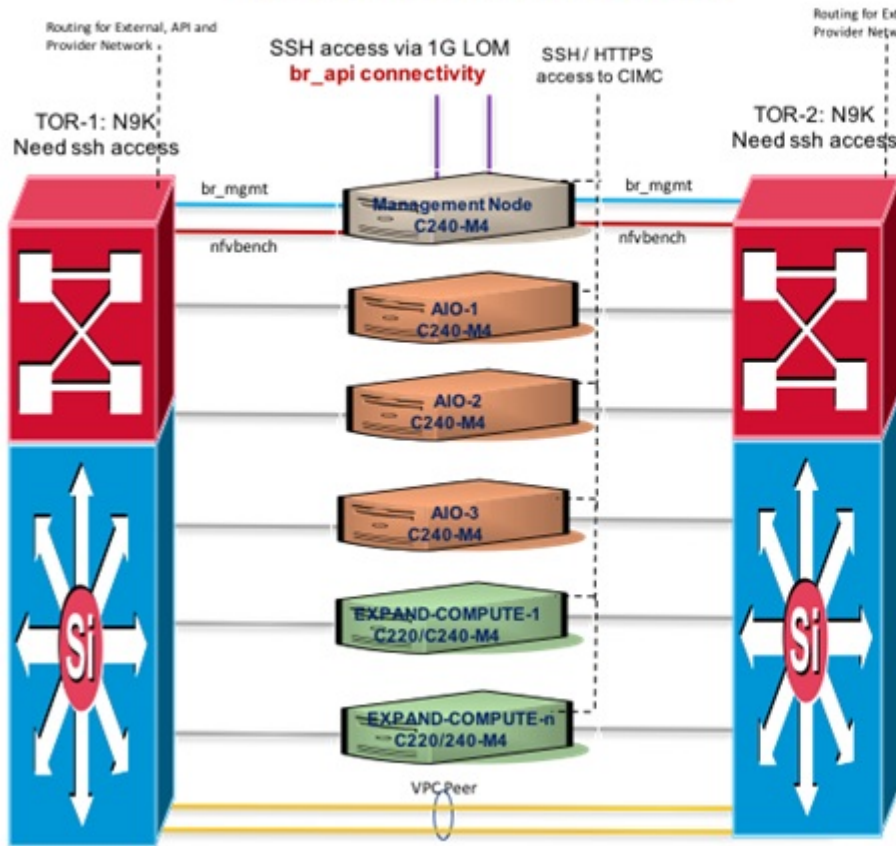*Figure 2: M4 Full-On With Intel NIC (X710)*

Figure 3: M4 Micropod With Cisco VIC

M4-Micropod With Cisco VIC

Routing for External, API and Provider Network

SSH access via 1G LOM
br_api connectivity

SSH/ HTTPS access to CIMC

Routing for External, API and Provider Network

TOR-1: N9K Need ssh access

TOR-2: N9K Need ssh access

br_mgmt

br_mgmt

Management Node C240-M4

nfvbench

nfvbench

AIO-1 C240-M4

AIO-2 C240-M4

AIO-3 C240-M4

EXPAND-COMPUTE-1 C220/C240-M4

EXPAND-COMPUTE-n C220/240-M4

VPC Peer

Si

Si

Optional: for NFVBench
Intel X710 or 520 on Management N
2 ports used

Cisco VIC on cloud hosts: carved into
SAMX: Storage, Cloud API, managem
PET: Provider, external and tenant VM

Cisco VIC on management node:
br_mgmt: management network aut
as part of buildnode.iso install

2x1GE Intel NIC (build in LAN on boar
br_api: CVIM api network auto-config
as part of buildnode.iso install; has Ci
management APIs

----- Dedicated CIMC MGMT port 1G

Routable IPs:
cloud_api (for talking to OpenStack)
br_api (for talking to VIM mgmt)
[plan for other IPs for Zenoss, etc as needed]
Cloud external network for VMs: continuous
L3 IP connectivity between Server CIMCs an

If you use provider networking, you will wa
subnets appropriate to their routing

All other networks can be private
Large MTU must be configured on the TORs
Pod size: Max of 16 compute nodes
AIO: All in One (Control, compute, Ceph)
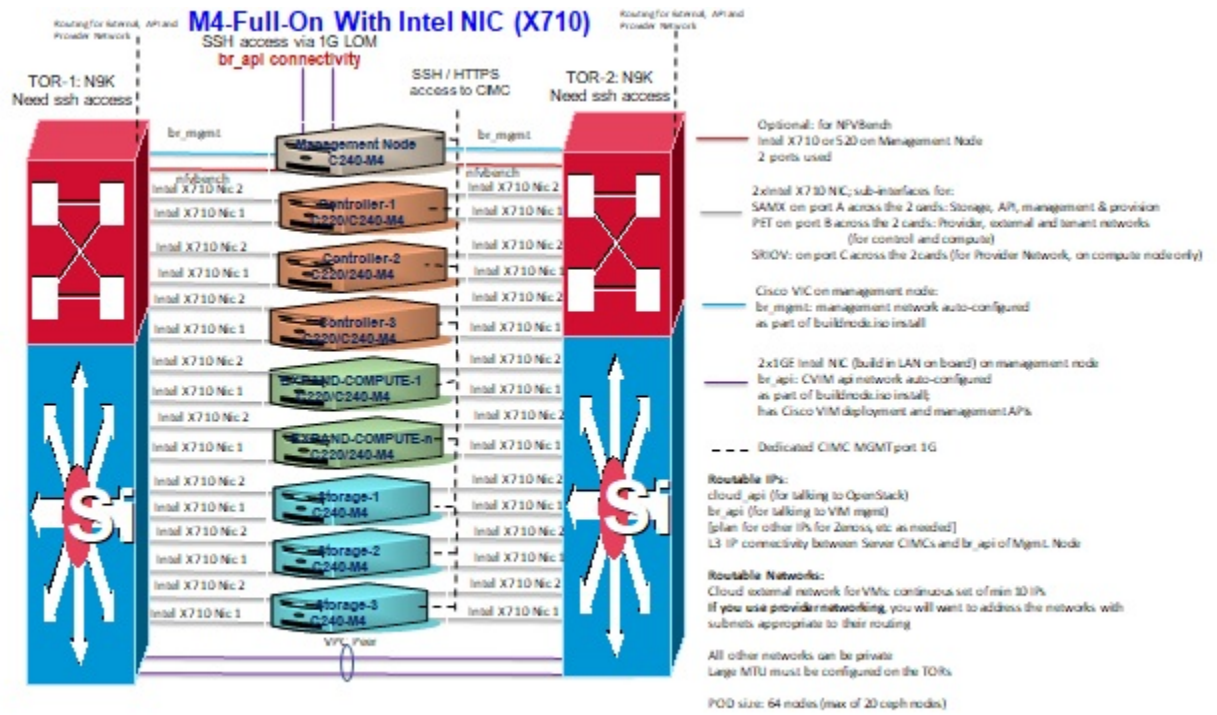
Figure 4: M4 Micropod With Intel NIC (X710)

Figure 5: M4-Full-On With Cisco VIC/NIC (2xXL710/2x520)

M4-Full-On With Cisco VIC/NIC (2xXL710/2x520)

Routing for External, API and Provider Network

SSH access via 1G LOM
br_api connectivity

SSH / HTTPS access to CIMC

Routi
Provi

TOR-1: N9K
Need ssh access

TOR-2: N9K
Need ssh acc

br_mgmt

br_mgmt

Management Node
C240-M4

nfvbench

nfvbench

Controller-1
C220/C240-M4

Controller-2
C220/240-M4

Controller-3
C220/C240-M4

EXPAND-COMPUTE-1
C220/C240-M4

EXPAND-COMPUTE-n
C220/240-M4

Storage-1
C240-M4

Storage-2
C240-M4

Storage-3
C240-M4

VPC Peer