

Appendix

The following are the wiring schematic of various pod configuration.

• Wiring Schematic of Various POD Configurations, on page 1

Wiring Schematic of Various POD Configurations

Figure 1: M4 Full-On With Cisco VIC

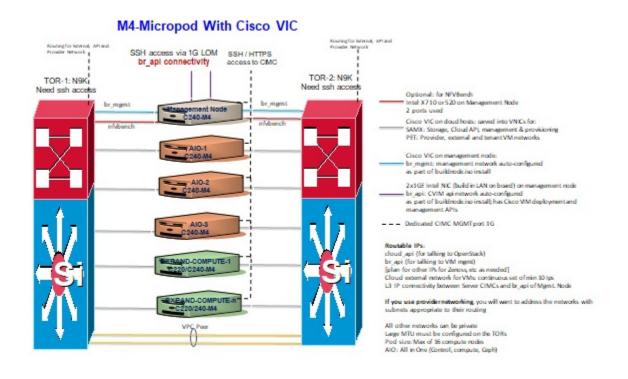


Figure 2: M4 Full-On With Intel NIC (X710)

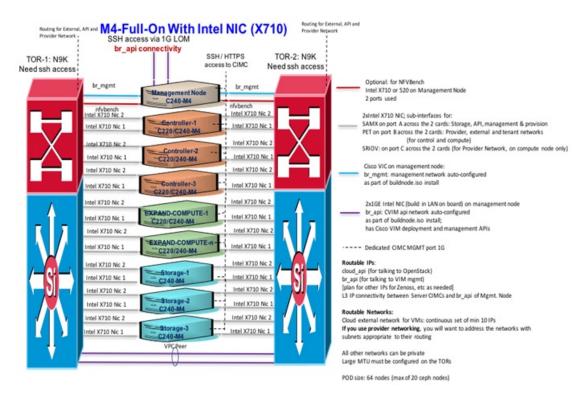
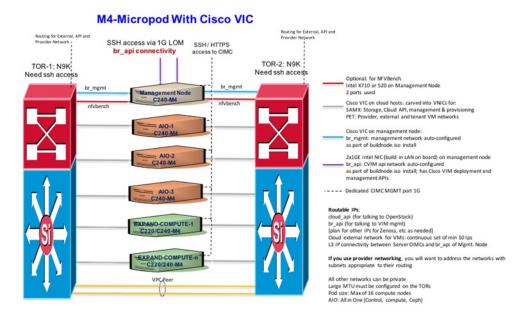


Figure 3: M4 Micropod With Cisco VIC



for formul, Afficial MA-Full-On With Intel NIC (X710) Resempt or formul, Afficial retrievals retrie SSH/HTTPS TOR-2: N9K TOR-1: N9K ccess to CMC Need ssh access Need ssh access Optional: for NPVBench Intel X710 or S20 on Management Node 2 ports used nfybench nfyborch of X710 No 2 Intel X710 Nic 2 2xintal X710 NIC; sub-interfaces for: SAMX on port A across the 2 cards: Stonage, API, management & provision PET on port B across the 2 cards: Hovidar, external and tenant networks (for control and compute) SROV: on port Cacross the 2 cards (for Hovider Network, on compute mode only) Intel X710 Nic 1 nol X710 Nic 1 C240-M4 intel X710 Nic 2 intel X710 Nic 1 Intel X710 No Cisco VIC on management node. Intel X710 Nic 2 nod X710 Nic 2 br_mgmt: management network auto-configured as part of buildrediciso install controller-3 20/C240-M4 Intel X710 Nic od X710 Nic 1 tel X710 Nic 2 2x1GE Intel NIC (build in LAN on board) on management node br_api: CVIM agi network auto-configured as part of buildinok iso install; has Cisco VIM diployment and management APs. Intel X710 Nic 1 od X710 Nic 1 ntel X710 Nic 2 Intel X710 Nic 1 od X710 Nic 1 _ _ _ Dedicated CIMC MGMTpot 1G el X710 Nic 2 Routable IPh: cloud, api (for talking to OpenStack) br, api (for talking to VM mgml) [plan for other IPh for Zenosi, etc as needed] 13 IP commictivity between Server CIMCs and br, api of Mgml. Node al X710 Nic 1 Intel X710 Nic ntel X710 Nic 2 Intel X710 Nic Intel X710 Nic ntel X710 Nic 1 Routable Networks: Intel X710 Nic 2 oud external network for VMs; continuous set of min 10 IPs. If you use provider networking, you will went to address the networks with subnets appropriate to their routing Intel X710 Nic 1 el X710 Nic 1 Large MTU must be configured on the TORs POD size: 64 nodes (max of 20 ceph nodes)

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) SSH access via 1G LOM TOR-2: N9K TOR-1: N9K Need ssh access br_api connectivity Optional: for NFVBench Need ssh access Intel X710 or 520 on Management Node 2 ports used Intel NIC; 2x 2-port 520 or 2x2port 710XL Provider Network over SRIOV Computes that don't wish to have SRIOV, needn't put the NIC cards in them Cisco VIC on management node: br_mgmt: management network auto-configured as part of buildnode.iso install 2x1GE Intel NIC (build in LAN on board) on management node br_api: CVIM api network auto-configured as part of buildnode.iso install; has Cisco VIM deployment and management APIs - Dedicated CIMC MGMT port 1G Routable IPs: cloud_api (for talking to OpenStack) br_api (for talking to VIM mgmt) [Danfor other IPs for Zenoss, etc as needed] L3 IP connectivity between Server CIMCs and br_api of Mgmt. Node Routable Networks: Cloud external network for VMs: continuous set of min 10 IPs If you use provider networking, you will want to address the networks with subnets appropriate to their routing All other networks can be private Large MTU must be configured on the TORs POD size: 64 nodes (max of 20 ceph nodes)

Wiring Schematic of Various POD Configurations