

Appendix

• Cisco VIM Wiring Diagrams, on page 1

Cisco VIM Wiring Diagrams

Figure 1: M4-Micropod with Cisco VIC

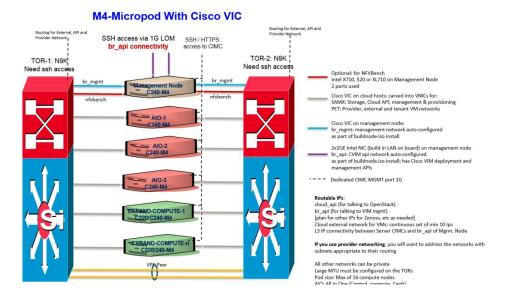


Figure 2: M4-Full-On with Cisco VIC

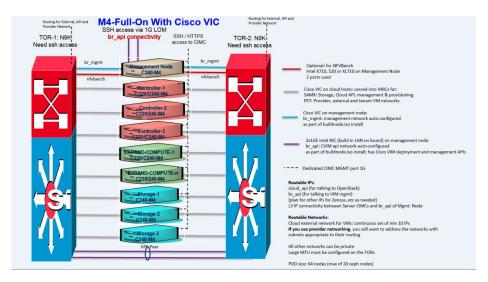
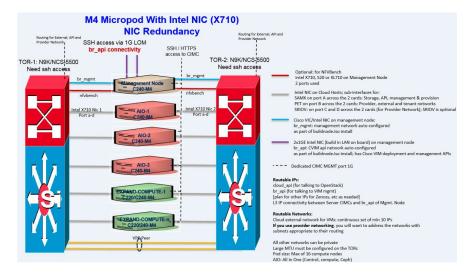


Figure 3: M4 Micropod with Intel NIC (X710) - NIC Redundancy



Routing for External, API and Provider Network, ssh for mgmt node Route to CIMC of all servers Routing for External, API and Provider Network, ssh for mgmt node Route to CIMC for all servers SSH / HTTPS access to CIMC TOR-1: N9K SSH access via 1G LOM TOR-2: N9K Optional: for NFVBench Need ssh access br api connectivity Need ssh access Intel X710 or 520 on Management Node br api 2 ports used br mgmt Cisco VIC on cloud hosts: carved into VNICs for: SAMX: Storage, Cloud API, management & provisioning Intel NIC; 1x 2-port 520 for PET: Provider, external and tenant VM networks Over VPP 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; ssh connectivity has Cisco VIM deployment and management APIs CIMC of all servers have to be reachable from mgmt node --- Dedicated CIMC MGMT port 1G Routable IPs: cloud_ap([for talking to OpenStack) br_ap([for talking to VMx mgmt] [plan for other [for Zenose, etc as needed] [3] 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 providen 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

Figure 4: M4 HC with Cisco VIC/NIC (1xX710) VPP based; no SRIOV

Figure 5: M5-Micropod with Intel NIC (X710) - No NIC Redundancy

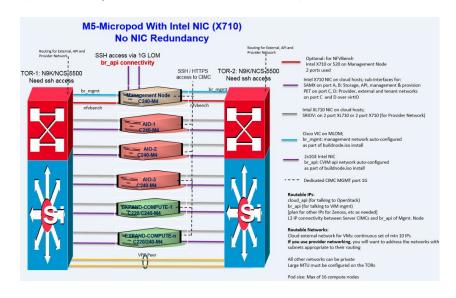


Figure 6: M4/M5 Full-On with Intel NIC (X710) and with NIC Redundancy

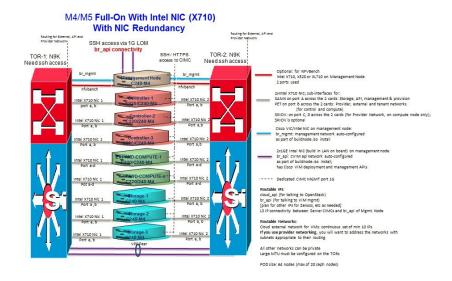


Figure 7: M4/M5 Full-On with Cisco VIC/NIC (2xXL710/2x520)

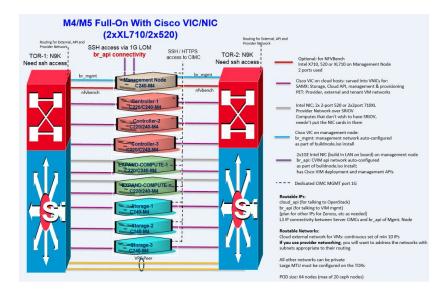


Figure 8: M4/M5 Micropod with Cisco VIC/NIC (2xXL710/2x520)

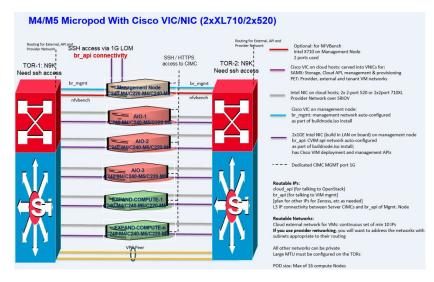
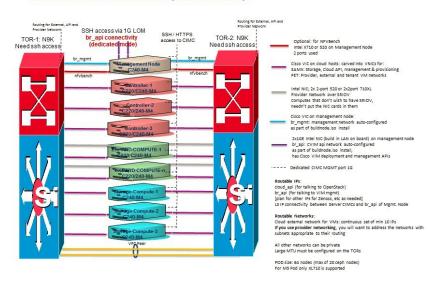


Figure 9: M4/M5-HC with Cisco VIC/NIC (2xXL710/2x520)

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