



OpenStack VTF vhost Mode Considerations

This appendix details the general considerations for deploying VTF in vhost mode on OpenStack.



Note Only RHEL nodes are currently supported as target vhost nodes.

Requirement	Details
RHEL version	7.3
QEMU	qemu-kvm-rhev-2.6.0-28.el7_3.6.x86_64
libVirt	libvirt-2.0.0-10.el7_3.4.x86_64
Kernel Drivers	uio_pci_generic: version 0.01.0 or vfio_pci: version 0.2
OpenStack	<ul style="list-style-type: none">• Newton• Nova Compute
Target vhost Compute Node RAM / CPU	16Gb / 2 CPU
Hugepage	The installer takes care of this requirement.



Note

- If an image is tuned to run on VTF (w mem_page_size) and the same image is used on a server that does not have VTF and huge pages created, it might fail.
- If you deploy a VM on VTF host w/o mem_page_size large, the VM might come up fine, but may not be able to ping anything.
- Using an image with mem_page_size set on a OVS host (non-VTF) fails because huge pages are not created.

- Requirements to run with Vector Packet Processing (VPP) and DPDK—See VPP and DPDK documentation for details.
- Numa node requirements

- OpenStack Flavor Extra Specs details— See OpenStack Flavors documentation for details.
- NIC Support—The following are supported:
 - Normal NIC-Intel Niantic (x510, IXGBE 82599)
 - Cisco VIC
 - Mellanox NIC (MCX4121A-ACAT) ConnectX-4 Lx EN 25GbE dual-port SFP28, PCIe3.0 x8, tall bracket