



## 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"><li>• Newton</li><li>• Nova Compute</li></ul>
Target vhost Compute Node RAM / CPU	16Gb / 2 CPU
Hugepage	The installer takes care of this requirement.

**Note**

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- 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.
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- 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 N1ANTIC (x510, IXGBE 82599)
    - Cisco VIC
    - Mellanox NIC (MCX4121A-ACAT) ConnectX-4 Lx EN 25GbE dual-port SFP28, PCIe3.0 x8, tall bracket