VMware NSX



NSX Edge Sizes			
Flavours	vCPU	Memory	General Guideline
Compact	1	512MB	- Tests - POCs
Large	2	1GB	- Medium performance firewall - Single Services
Quad-Large	4	1GB	- High performance firewall
X-Large	6	8GB	- High performance Firewall - Load Balancing

One-Arm Mode (Proxy)

· Connected directly on the same

• It's not the VMs default gateway

• Server farm replies back to

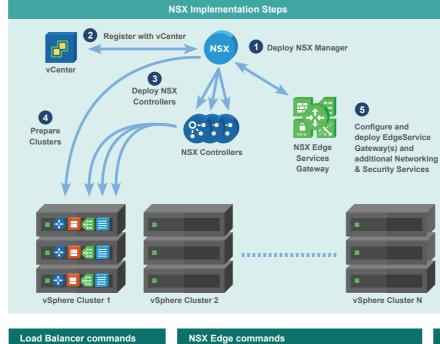
This model is simple to deploy

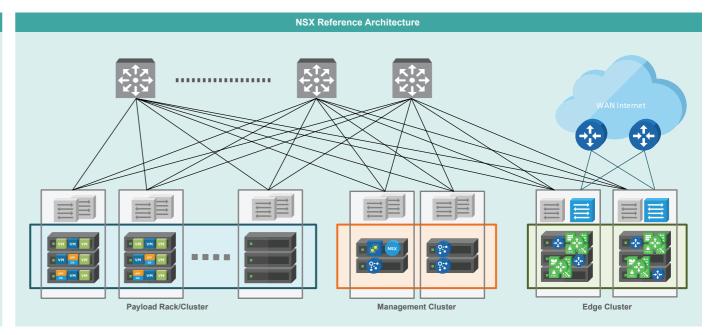
• It provides greater flexibility

Dedicated network services

SNAT is mandatory

NSX Load Balancing Services





show configuration

Shows VIPs

show configuration
loadbalancer virtual "vipName"

Shows load balancer pool configuration # show configuration

loadbalancer pool "poolName" Shows load balancer pool

member state # show service loadbalancer pool "poolName"

Inline Mode (Transparent)

· Server farm replies back to the

• This model is simple too but not

• Full visibility into the original

· Shared network services

• Load Balancer is the VMs

show ip [bgp/ospf]

Show IP address group

Show application set

DYNAMIC ROUTING

Shows neighbors
show ip [bgp/ospf] neighbors

Shows routes learned

show ip route [bgp/ospf]

Shows configuration # show configuration [bgp/ospf]

Shows the firewall configuration # show configuration firewall

Shows specific firewall rule information

show configuration ipset

show firewall rule-id "ruleID"

show configuration application-set

NSX Controller Commands

Restarts a controller. Restart only one controller at a time

restart controller

show control-cluster status

Shows controller, configuration, and status of the specified VNI # show control-cluster logical-switches vni "vniID"

Shows the hosts that are connected to the specified VNI # show control-cluster logical-switches
connection-table "vniID"

Shows MAC records of the specified VNI

show control-cluster logical-switches mac-table "vniID"

Shows the ARP records updated from the specified connection # show control-cluster logical-switches arprecords "hostIP"

Shows the MAC records updated from the specified connection # show control-cluster logical-switches macrecords "hostIP"

Shows the VTEP table for the specified VNI

show control-cluster logical-switches vtep-

Shows the VTEP records updated from the specified host # show control-cluster logical-switch vteprecords "hostIP"

NSX Manager CONTROLLERS

Shows controller nodes status # show controller list all

EDGES

Shows information for all edges

Shows specific Edge information

LOGICAL ROUTERS

List all logical router instance

List all logical router instance

List which host received routing information

show logical-router list dlr "dlrID" host

List routing table for a specific host # show logical-router host "hostID" dlr

"dlrID" route Shows Logical router's statistics

show logical-router controller master dlr

"dlrID" statistics Show the ARP table for a Logical router on a specific host

show logical-router host "hostID" dlr
"dlrID" arp

LOGICAL SWITCHES

Shows Logical Switches

show logical-switch list all

Shows connected logical switch on a host

show logical-switch controller "controllerID" host "hostIP" joined-vnis

Shows MAC Address table for a logical switch ow logical-switch controller master vni

"vniID" mac

Shows VTEP table for a host # show logical-switch controller

"controllerID" host "hostIP" vtep Shows the ARP table for a host

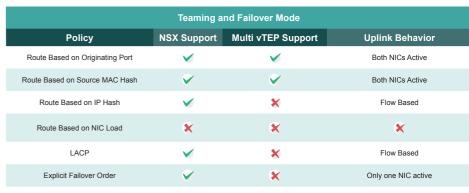
show logical-switch controller "controllerID" host "hostIP" arp

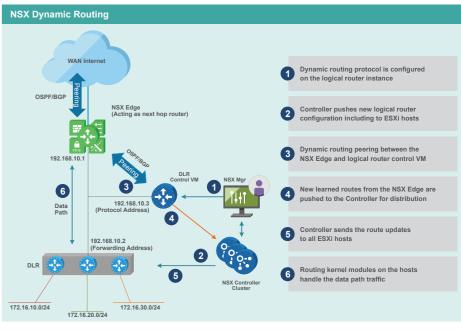
Shows MAC address table for a host

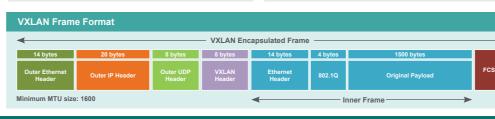
show logical-switch controller "controllerID" host "hostIP" mac

Shows logical switch statistics # show logical-switch controller master vni "vniID" statistics

Shows all hosts on which a logical switch is available # show logical-switch list vni "vniID"host







Documentation Center Official Blog VMware Hands-on Labs Design Guide http://bit.ly/2cHPGtJ Trending support issues

NSX Resource Links

Copyright © 2016 VMware, Inc. All rights reserved

VMware Professional Services

VM



ESXi Commands

Check NSX VIBs Installed

Uninstalling NSX VIBs

Display VXLAN Details

Test VTEP Connectivity

-vibname=esx-vxlan # esxcli software vib remove

esxcli software vib remove

esxcli software vib list | grep esx

vmware

esxcli network vswitch dvs vmware vxlan list

vmkping ++netstack=vxlan -d -s "MTU_SIZE"
"VTEP_IP_DEST"

https://vmware.com/products/nsx

(