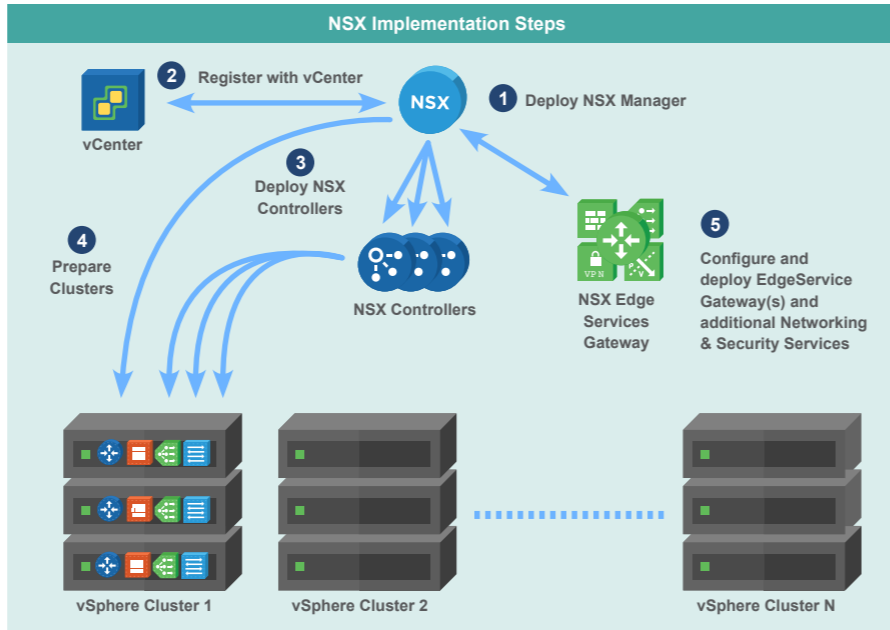
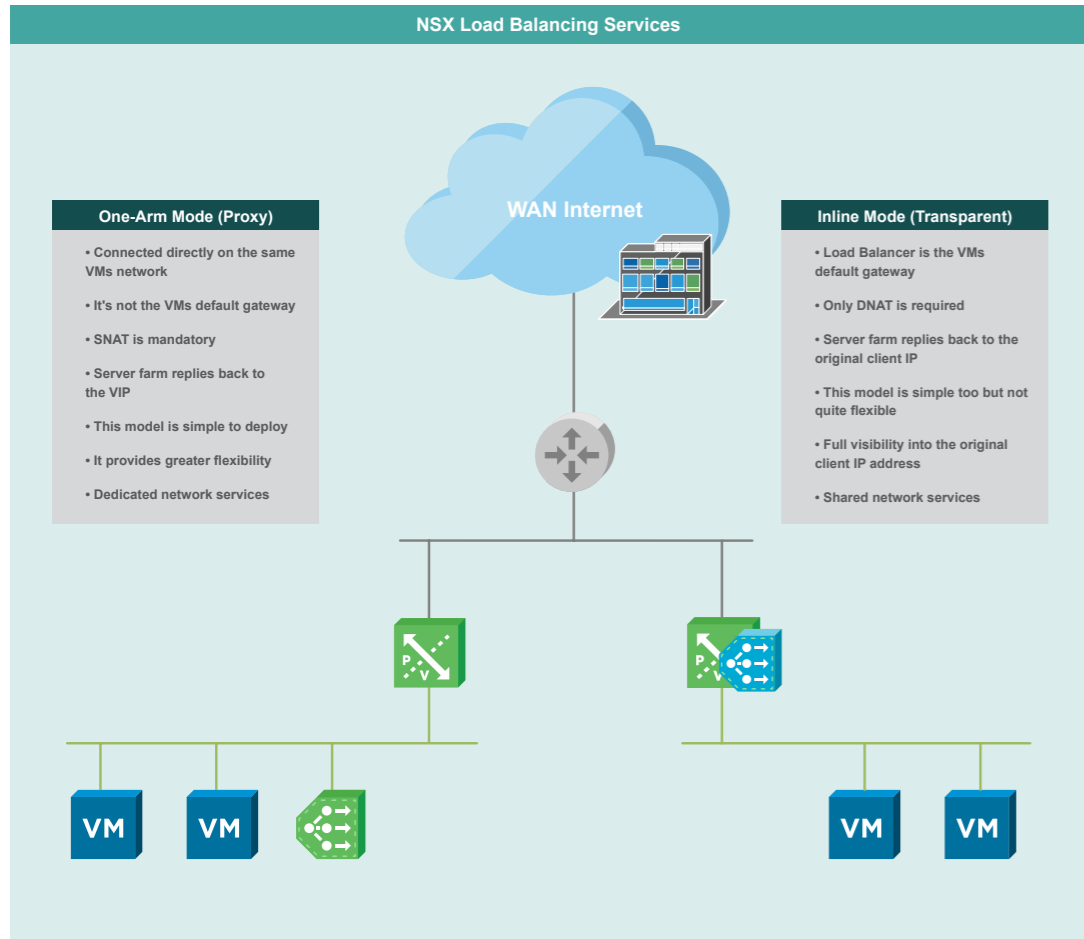


NSX Licensing			
Product Features	Standard	Advanced	Enterprise
Distributed switching and routing	•	•	•
NSX edge firewall	•	•	•
NAT	•	•	•
SW L2 bridging to physical environment	•	•	•
Dynamic routing with ECMP (active-active)	•	•	•
API-driven automation	•	•	•
Integration with vRealize and OpenStack	•	•	•
Log Management with vRealize Log Insight for NSX	•	•	•
Automation of security policies with vRealize	•	•	•
NSX edge load balancing	•	•	•
Distributed firewalling	•	•	•
Integration with Active Directory	•	•	•
Server activity monitoring	•	•	•
Service insertion (third-party integration)	•	•	•
Integration with AirWatch	•	•	•
Cross vCenter NSX	•	•	•
Multi-site NSX optimizations	•	•	•
VPN (IPSec and SSL)	•	•	•
Remote Gateway	•	•	•
Integration with hardware VTEPs	•	•	•

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



#### Load Balancer commands

```
# show configuration loadbalancer
# show configuration loadbalancer virtual "vipName"
# show configuration loadbalancer pool "poolName"
# show service loadbalancer pool "poolName"
```

#### NSX Edge commands

##### FIREWALL

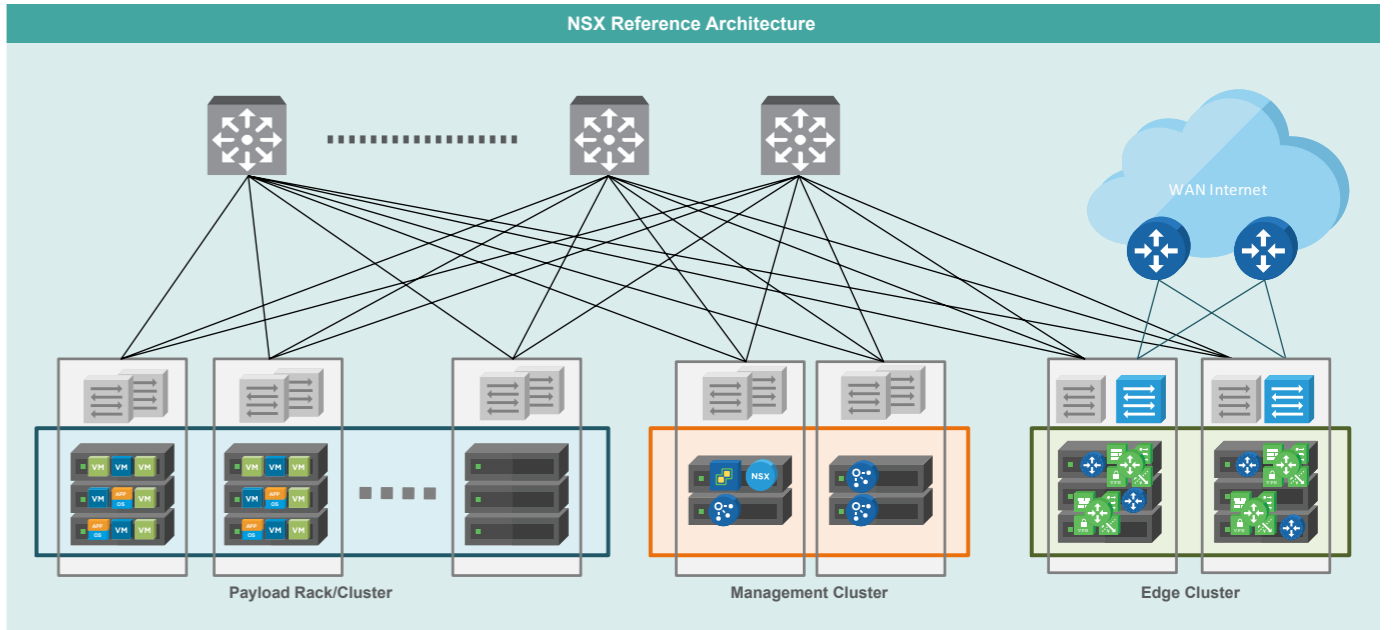
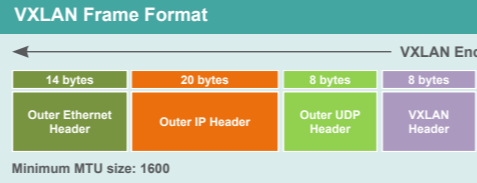
```
# show configuration firewall
# show configuration firewall rule-id "ruleID"
# show configuration ipset
# show configuration application-set
```

##### DYNAMIC ROUTING

```
# show ip [bgp/ospf] neighbors
# show ip route [bgp/ospf]
# show configuration [bgp/ospf]
```

#### NSX Controller Commands

```
# restart controller
# show control-cluster status
# show control-cluster logical-switches vni "vniID"
# show control-cluster logical-switches connection-table "vniID"
# show control-cluster logical-switches mac-table "vniID"
# show control-cluster logical-switches arp-records "hostIP"
# show control-cluster logical-switches mac-records "hostIP"
# show control-cluster logical-switches vtep-table "vniID"
# show control-cluster logical-switch vtep-records "hostIP"
```



#### NSX Manager

##### CONTROLLERS

```
# show controller list all
```

##### EDGES

```
# show edge all
# show edge "edgeID"
```

##### LOGICAL ROUTERS

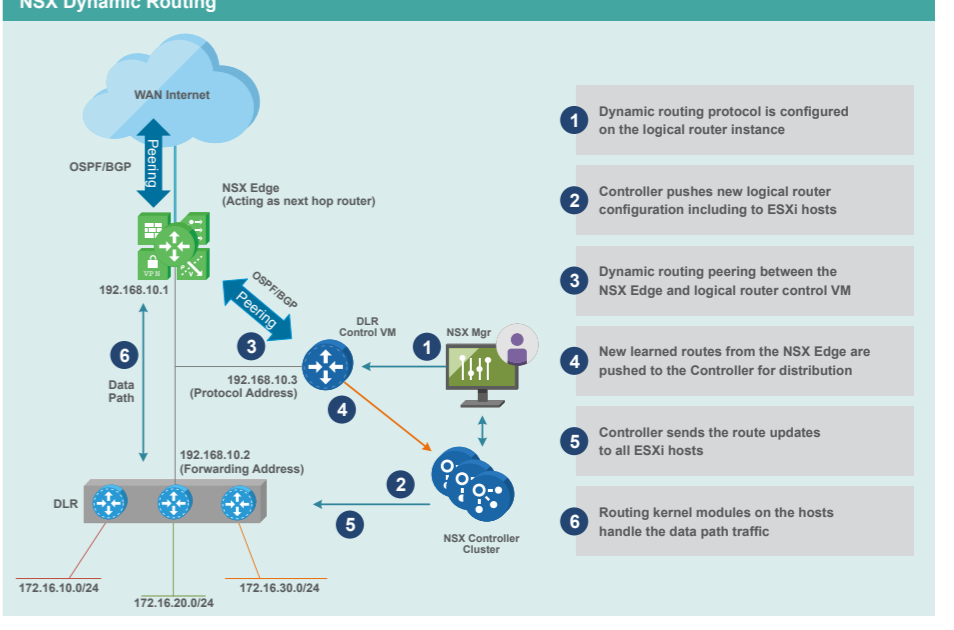
```
# List all logical router instance
# show logical-router list dlr "dlrID" host
# show logical-router host "hostID" dlr "dlrID" route
# show logical-router controller master dlr "dlrID" statistics
# show logical-router host "hostID" dlr "dlrID" arp
```

##### LOGICAL SWITCHES

```
# show logical-switch list all
# show logical-switch controller "controllerID" host "hostIP" joined-vnis
# show logical-switch controller master vni "vniID" mac
# show logical-switch controller "controllerID" host "hostIP" vtep
# show logical-switch controller "controllerID" host "hostIP" arp
# show logical-switch controller "controllerID" host "hostIP" mac
# show logical-switch controller master vni "vniID" statistics
# show logical-switch list vni "vniID" host
```

#### Teaming and Failover Mode

Policy	NSX Support	Multi vTEP Support	Uplink Behavior
Route Based on Originating Port	✓	✓	Both NICs Active
Route Based on Source MAC Hash	✓	✓	Both NICs Active
Route Based on IP Hash	✓	✗	Flow Based
Route Based on NIC Load	✗	✗	✗
LACP	✓	✗	Flow Based
Explicit Failover Order	✓	✗	Only one NIC active



#### ESXi Commands

```
# esxcli software vib list | grep esx
# esxcli software vib remove --vibname=esx-vxlan
# esxcli software vib remove --vibname=esx-vsip
# esxcli network vswitch dvs vmware vxlan list
# vmkping --netstack=vxlan -d -s "MTU_SIZE" "VTEP_IP_DEST"
```

#### NSX Resource Links

- Documentation Center: [https://www.vmware.com/support/pubs/nsx\\_pubs.html](https://www.vmware.com/support/pubs/nsx_pubs.html)
- Official Blog: <http://blogs.vmware.com/networkvirtualization>
- VMware Hands-on Labs: <http://hol.vmware.com/>
- Design Guide: <http://bit.ly/2cHPGtJ>
- Trending support issues: <http://kb.vmware.com/kb/2131154>
- Troubleshooting: <https://kb.vmware.com/kb/2122691>