APPENDIX

CISCO SOLUTION FOR EMC VSPEX END USER COMPUTING: VMWARE HORIZON VIEW 5.2

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A.1 N5548UP-A Configuration

version 5.1(3)N1(1)

feature fcoe
hostname VDI-N5548-A
feature npiv
feature telnet
no feature http-server
cfs eth distribute
feature interface-vlan
feature hsrp
feature lacp
feature dhcp
feature vpc
feature lldp
username admin password 5 $1$flDXE9ph$8kLCNswafhM72zmsPICTN. role network-admin
no password strength-check

banner motd #Nexus 5000 Switch
#

ip domain-lookup
ip domain-name cisco.com
ip name-server 171.70.168.183 171.68.226.120

logging event link-status default
class-map type qos class-fcoe
class-map type qos match-any class-platinum
  match cos 5
class-map type queuing class-fcoe
  match qos-group 1
class-map type queuing class-platinum
  match qos-group 2
class-map type queuing class-all-flood
  match qos-group 2
class-map type queuing class-ip-multicast
  match qos-group 2
policy-map type qos jumbo
class class-default
set qos-group0
policy-map type qos system_qos_policy
class class-platinum
  set qos-group2
class class-default
  set qos-group0
policy-map type queuing system_q_in_policy
class type queuing class-platinum
  bandwidth percent 50
class type queuing class-fcoe
  bandwidth percent 20
class type queuing class-default
  bandwidth percent 30
policy-map type queuing system_q_out_policy
class type queuing class-platinum
  bandwidth percent 50
class type queuing class-fcoe
  bandwidth percent 20
class type queuing class-default
  bandwidth percent 30
class-map type network-qos class-fcoe
  match qos-group1
class-map type network-qos class-platinum
  match qos-group2
class-map type network-qos class-all-flood
  match qos-group2
class-map type network-qos system_nq_policy
  match qos-group2
class-map type network-qos class-ip-multicast
  match qos-group2
policy-map type network-qos system_nq_policy
class type network-qos class-platinum
  pause no-drop
  mtu 9216
class type network-qos class-fcoe
  pause no-drop
  mtu 2158
class type network-qos class-default
  mtu 9216
multicast-optimize

system qos

service-policy type qos input system_qos_policy
service-policy type queuing input system_q_in_policy
service-policy type queuing output system_q_out_policy
service-policy type network-qos system_nq_policy

slot 1
port 17-32 type fc

slot 2

snmp-server user admin network-admin auth md5 0x8ab93daa81de19316bfc6c0411346552
priv 0x8ab93daa81de19316bfc6c0411346552
vrf context management
ip route 0.0.0.0/0 10.29.164.1

vlan 1

vlan 121
name privateVMDesktop

vlan 122
name WIN7

vlan 164
name ESXi_Mgmt

vlan 165
name Infra_Mgmt

vlan 166
name Storage_NFS

vlan 167
name N1k-control

vlan 168
name n1k-packet

vlan 169
name vMotion

service dhcp
ip dhcp relay

vpc domain 51
peer-keepalive destination 10.29.164.54
device-alias mode enhanced
device-alias database
device-alias name VNX-5500-A3 pwwn 50:06:01:60:3e:a0:30:99
device-alias name VNX-5500-B3 pwwn 50:06:01:68:3e:a0:30:99
device-alias name B200M3-CH1-BL1-fc0 pwwn 20:00:00:25:b5:b1:1b:3f
device-alias name B200M3-CH1-BL2-fc0 pwwn 20:00:00:25:b5:b1:1:b:af
device-alias name B200M3-CH1-BL3-fc0 pwwn 20:00:00:25:b5:b1:1:b:9e
device-alias name B200M3-CH1-BL4-fc0 pwwn 20:00:00:25:b5:b1:1:b:7e
device-alias name B200M3-CH1-BL5-FC0 pwwn 20:00:00:25:b5:b1:1:b:5e
device-alias name B200M3-CH1-BL6-FC0 pwwn 20:00:00:25:b5:b1:1:b:3e
device-alias name B200M3-CH1-BL7-FC0 pwwn 20:00:00:25:b5:b1:1:b:1e
device-alias name B200M3-CH2-BL1-FC0 pwwn 20:00:00:25:b5:b1:1:b:de
device-alias name B200M3-CH2-BL2-FC0 pwwn 20:00:00:25:b5:b1:1:b:be
device-alias name B200M3-CH2-BL3-FC0 pwwn 20:00:00:25:b5:b1:1:b:ae
device-alias name B200M3-CH2-BL4-FC0 pwwn 20:00:00:25:b5:b1:1:b:7d
device-alias name B200M3-CH2-BL5-FC0 pwwn 20:00:00:25:b5:b1:1:b:3d
device-alias name B200M3-CH2-BL6-FC0 pwwn 20:00:00:25:b5:b1:1:b:1d
device-alias name B200M3-CH2-BL7-FC0 pwwn 20:00:00:25:b5:b1:1:b:dd
device-alias name B200M3-CH2-BL8-FC0 pwwn 20:00:00:25:b5:b1:1:b:7c
device-alias name B250M2-CH3-BL1-fc0 pwwn 20:00:00:25:b5:b1:1:b:9f
device-alias name B250M2-CH3-BL3-fc0 pwwn 20:00:00:25:b5:b1:1:b:5f
device-alias name B250M2-CH3-BL5-fc0 pwwn 20:00:00:25:b5:b1:1:b:1f
device-alias name B250M2-CH3-BL7-fc0 pwwn 20:00:00:25:b5:b1:1:b:bf
device-alias name B250M2-CH4-BL1-fc0 pwwn 20:00:00:25:b5:b1:1:b:7f
device-alias name B250M2-CH4-BL3-fc0 pwwn 20:00:00:25:b5:b1:1:b:df
device-alias name B250M2-CH4-BL5-fc0 pwwn 20:00:00:25:b5:b1:1:b:9d
device-alias name B250M2-CH4-BL7-fc0 pwwn 20:00:00:25:b5:b1:1:b:5d
device-alias commit

fcdomain fcid database
vsan 1 wwn 50:06:01:68:3e:a0:30:99 fcid 0xe300ef dynamic
! [VNX-5500-B3]
vsan 1 wwn 50:06:01:60:3e:a0:30:99 fcid 0xe301ef dynamic
! [VNX-5500-A3]
vsan 1 wwn 20:4c:54:7f:ee:45:29:80 fcid 0xe30000 dynamic
vsan 1 wwn 20:4b:54:7f:ee:45:2a:40 fcid 0xe30001 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1:b:9e fcid 0xe30002 dynamic
! [B200M3-CH1-BL3-fc0]
vsan 1 wwn 20:00:00:25:b5:b1:1:b:5e fcid 0xe30003 dynamic
! [B200M3-CH1-BL5-FC0]
vsan 1 wwn 20:00:00:25:b5:b1:1:b:4e fcid 0xe30004 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1:b:ce fcid 0xe30005 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1:b:de fcid 0xe30006 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:ae fcid 0xe30007 dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:be fcid 0xe30008 dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:8e fcid 0xe30009 dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:6e fcid 0xe3000a dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:7e fcid 0xe3000b dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:2e fcid 0xe3000c dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:0e fcid 0xe3000d dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:1e fcid 0xe3000e dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:1f fcid 0xe3000f dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:df fcid 0xe30010 dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:bf fcid 0xe30011 dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:af fcid 0xe30012 dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:8f fcid 0xe30013 dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:6f fcid 0xe30014 dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:5f fcid 0xe30015 dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:2f fcid 0xe30016 dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:ff fcid 0xe30017 dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:cf fcid 0xe30018 dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:9d fcid 0xe30019 dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:7d fcid 0xe3001a dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:5d fcid 0xe3001b dynamic

vsan 1 wwn 20:00:00:25:b5:b1:1b:3d fcid 0xe3001c dynamic
interface Vlan1
  no shutdown

interface Vlan121
  ip address 121.0.0.2/8
  hsrp version 2
  hsrp 121
    preempt
    priority 110
  ip 121.0.0.1

interface Vlan122
no shutdown
ip address 122.0.0.2/8
hsrp version 2
hsrp 122
    preempt
    priority 110
    ip 122.0.0.1

interface Vlan164
  no shutdown
  ip address 10.29.164.11/24
  hsrp version 2
  hsrp 164
      preempt
      priority 110
      ip 10.29.164.10

interface Vlan165
  no shutdown
  ip address 10.29.165.2/24
  hsrp version 2
  hsrp 165
      preempt
      priority 110
      ip 10.29.165.1

interface Vlan166
  no shutdown
  ip address 10.29.166.2/24
  hsrp version 2
  hsrp 166
      preempt
      priority 110
      ip 10.29.166.1

interface Vlan169
  no shutdown
  ip address 10.10.169.2/24
interface port-channel1
  switchport mode trunk
  spanning-tree port type network
  vpc peer-link

interface port-channel11
  switchport mode trunk
  untagged cos 5
  switchport trunk native vlan 164
  switchport trunk allowed vlan 166
  vpc 11

interface port-channel12
  untagged cos 5
  switchport access vlan 166
  vpc 12

interface port-channel13
  switchport access vlan 164

interface port-channel51
  switchport mode trunk
  switchport trunk native vlan 164
  switchport trunk allowed vlan 121-122,164-169
  spanning-tree port type edge trunk
  vpc 51

interface port-channel52
  switchport mode trunk
  switchport trunk native vlan 164
  switchport trunk allowed vlan 121-122,164-169
  spanning-tree port type edge trunk
  vpc 52

interface fc1/17
  no shutdown

interface fc1/18
  no shutdown
interface fc1/19
no shutdown

interface fc1/20
no shutdown

interface fc1/21
no shutdown

interface fc1/22
no shutdown

interface fc1/23
no shutdown

interface fc1/24
no shutdown

interface fc1/25
no shutdown

interface fc1/26
no shutdown

interface fc1/27
no shutdown

interface fc1/28
no shutdown

interface fc1/29
no shutdown

interface fc1/30
no shutdown

interface fc1/31
no shutdown
interface fc1/32
  no shutdown

interface Ethernet1/1
  switchport access vlan 164
  speed 1000
  channel-group 13 mode active

interface Ethernet1/2
  switchport access vlan 164
  speed 1000
  channel-group 13 mode active

interface Ethernet1/3

interface Ethernet1/4
  switchport mode trunk
  switchport trunk native vlan 164
  switchport trunk allowed vlan 121-122,164-166

interface Ethernet1/5
  description ISL-PEER-LINK
  switchport mode trunk
  channel-group 1 mode active

interface Ethernet1/6
  description ISL-PEER-LINK
  switchport mode trunk
  channel-group 1 mode active

interface Ethernet1/7
  switchport access vlan 165
  speed 1000

interface Ethernet1/8
  switchport access vlan 165
  speed 1000
interface Ethernet1/9
  switchport mode trunk
  switchport trunk native vlan 164
  switchport trunk allowed vlan 121-122,164-169
  channel-group 51 mode active

interface Ethernet1/10
  switchport mode trunk
  switchport trunk native vlan 164
  switchport trunk allowed vlan 121-122,164-169
  channel-group 51 mode active

interface Ethernet1/11
  switchport mode trunk
  switchport trunk native vlan 164
  switchport trunk allowed vlan 121-122,164-169
  channel-group 52 mode active

interface Ethernet1/12
  switchport mode trunk
  switchport trunk native vlan 164
  switchport trunk allowed vlan 121-122,164-169
  channel-group 52 mode active

interface Ethernet1/13

interface Ethernet1/14

interface Ethernet1/15
  description VNX-5500-10GB
  switchport mode trunk
  switchport trunk native vlan 164
  switchport trunk allowed vlan 166
  channel-group 11 mode active

interface Ethernet1/16
  description VNX-5500-10GB
  untagged cos 5
  switchport access vlan 166
interface mgmt0
  ip address 10.29.164.53/24
line console
line vty
boot kickstart bootflash:/n5000-uk9-kickstart.5.1.3.N1.1.bin
boot system bootflash:/n5000-uk9.5.1.3.N1.1.bin
interface fc1/17
interface fc1/18
interface fc1/19
interface fc1/20
interface fc1/21
interface fc1/22
interface fc1/23
interface fc1/24
interface fc1/25
interface fc1/26
interface fc1/27
interface fc1/28
interface fc1/29
interface fc1/30
interface fc1/31
interface fc1/32

!Full Zone Database Section for vsan 1
zone name B200M3-CH1-BL1-FC0 vsan 1
  member pwn 20:00:00:25:b5:b1:1b:3f ! [B200M3-CH1-BL1-FC0]
  member pwn 50:06:01:60:3e:a0:30:99 ! [VNX-5500-A3]
  member pwn 50:06:01:68:3e:a0:30:99 ! [VNX-5500-B3]

zone name B200M3-CH1-BL2-FC0 vsan 1
  member pwn 20:00:00:25:b5:b1:1b:af ! [B200M3-CH1-BL2-FC0]
  member pwn 50:06:01:60:3e:a0:30:99 ! [VNX-5500-A3]
  member pwn 50:06:01:68:3e:a0:30:99 ! [VNX-5500-B3]
zone name B200M3-CH1-BL3-FC0 vsan 1
  member pwwn 20:00:00:25:b5:b1:1b:9e
    [B200M3-CH1-BL3-fc0]
    member pwwn 50:06:01:60:3e:a0:30:99
    [VNX-5500-A3]
    member pwwn 50:06:01:68:3e:a0:30:99
    [VNX-5500-B3]

zone name B200M3-CH1-BL4-FC0 vsan 1
  member pwwn 20:00:00:25:b5:b1:1b:7e
    [B200M3-CH1-BL4-fc0]
    member pwwn 50:06:01:60:3e:a0:30:99
    [VNX-5500-A3]
    member pwwn 50:06:01:68:3e:a0:30:99
    [VNX-5500-B3]

zone name B200M3-CH1-BL5-FC0 vsan 1
  member pwwn 50:06:01:60:3e:a0:30:99
    [VNX-5500-A3]
    member pwwn 50:06:01:68:3e:a0:30:99
    [VNX-5500-B3]
    member pwwn 20:00:00:25:b5:b1:1b:5e
    [B200M3-CH1-BL5-fc0]

zone name B200M3-CH1-BL6-FC0 vsan 1
  member pwwn 50:06:01:60:3e:a0:30:99
    [VNX-5500-A3]
    member pwwn 50:06:01:68:3e:a0:30:99
    [VNX-5500-B3]
    member pwwn 20:00:00:25:b5:b1:1b:3e
    [B200M3-CH1-BL6-fc0]

zone name B200M3-CH1-BL7-FC0 vsan 1
  member pwwn 50:06:01:60:3e:a0:30:99
    [VNX-5500-A3]
    member pwwn 50:06:01:68:3e:a0:30:99
    [VNX-5500-B3]
    member pwwn 20:00:00:25:b5:b1:1b:1e
zone name B200M3-CH2-BL8-FC0 vsan 1
member pwnn 20:00:00:25:b5:b1:1b:ad
member pwnn 50:06:01:60:3e:a0:30:99

zone name B200M3-CH2-BL1-FC0 vsan 1
member pwnn 20:00:00:25:b5:b1:1b:de
member pwnn 50:06:01:60:3e:a0:30:99

zone name B200M3-CH2-BL2-FC0 vsan 1
member pwnn 20:00:00:25:b5:b1:1b:be
member pwnn 50:06:01:60:3e:a0:30:99

zone name B200M3-CH2-BL3-FC0 vsan 1
member pwnn 50:06:01:68:3e:a0:30:99
member pwnn 50:06:01:60:3e:a0:30:99

zone name B200M3-CH2-BL4-FC0 vsan 1
member pwnn 50:06:01:60:3e:a0:30:99
member pwnn 50:06:01:68:3e:a0:30:99
member pwnn 50:06:00:25:b5:b1:1b:ae

member pwnn 50:06:00:25:b5:b1:1b:ad
member pwnn 50:06:01:60:3e:a0:30:99
zone name B200M3-CH2-BL5-FC0 vsan 1
member pwn 20:00:00:25:b5:b1:1b:3d

zone name B200M3-CH2-BL5-FC0 vsan 1
member pwn 50:06:01:68:3e:a0:30:99

zone name B200M3-CH2-BL5-FC0 vsan 1
member pwn 50:06:01:60:3e:a0:30:99

zone name B200M3-CH2-BL6-FC0 vsan 1
member pwn 20:00:00:25:b5:b1:1b:1d

zone name B200M3-CH2-BL6-FC0 vsan 1
member pwn 50:06:01:60:3e:a0:30:99

zone name B200M3-CH2-BL6-FC0 vsan 1
member pwn 50:06:01:68:3e:a0:30:99

zone name B200M3-CH2-BL7-FC0 vsan 1
member pwn 20:00:00:25:b5:b1:1b:dd

zone name B230M2-CH2-BL8-FC0 vsan 1
member pwn 50:06:01:60:3e:a0:30:99

zone name B230M2-CH2-BL8-FC0 vsan 1
member pwn 50:06:01:68:3e:a0:30:99

zone name VDI-B200M3-fc0 vsan 1
member pwn 20:00:00:25:b5:b1:1b:7c

zone name VDI-B200M3-fc0 vsan 1
member pwn 50:06:01:60:3e:a0:30:99

zone name VDI-B200M3-fc0 vsan 1
member pwn 50:06:01:68:3e:a0:30:99
zone name B250M2-CH3-BL1-FC0 vsan 1
  member pwnn 50:06:01:60:3e:a0:30:99
    [VNX-5500-A3]
  member pwnn 50:06:01:68:3e:a0:30:99
    [VNX-5500-B3]
  member pwnn 20:00:00:25:b5:b1:1b:9f
    [B250M2-CH3-BL1-fc0]

zone name B250M2-CH3-BL3-FC0 vsan 1
  member pwnn 50:06:01:60:3e:a0:30:99
    [VNX-5500-A3]
  member pwnn 50:06:01:68:3e:a0:30:99
    [VNX-5500-B3]
  member pwnn 20:00:00:25:b5:b1:1b:5f
    [B250M2-CH3-BL3-fc0]

zone name B250M2-CH3-BL5-FC0 vsan 1
  member pwnn 50:06:01:60:3e:a0:30:99
    [VNX-5500-A3]
  member pwnn 50:06:01:68:3e:a0:30:99
    [VNX-5500-B3]
  member pwnn 20:00:00:25:b5:b1:1b:1f
    [B250M2-CH3-BL5-fc0]

zone name B250M2-CH3-BL7-FC0 vsan 1
  member pwnn 50:06:01:60:3e:a0:30:99
    [VNX-5500-A3]
  member pwnn 50:06:01:68:3e:a0:30:99
    [VNX-5500-B3]
  member pwnn 20:00:00:25:b5:b1:1b:bf
    [B250M2-CH3-BL7-fc0]

zone name B250M2-CH4-BL1-FC0 vsan 1
  member pwnn 50:06:01:60:3e:a0:30:99
    [VNX-5500-A3]
  member pwnn 50:06:01:68:3e:a0:30:99
    [VNX-5500-B3]
  member pwnn 20:00:00:25:b5:b1:1b:7f
zone name B250M2-CH4-BL3-FC0 vsan 1
    member pwwn 50:06:01:60:3e:a0:30:99
    [VNX-5500-A3]
    member pwwn 50:06:01:68:3e:a0:30:99
    [VNX-5500-B3]
    member pwwn 20:00:00:25:b5:b1:1b:df
    [B250M2-CH4-BL3-fc0]

zone name B250M2-CH4-BL5-FC0 vsan 1
    member pwwn 50:06:01:60:3e:a0:30:99
    [VNX-5500-A3]
    member pwwn 50:06:01:68:3e:a0:30:99
    [VNX-5500-B3]
    member pwwn 20:00:00:25:b5:b1:1b:9d
    [B250M2-CH4-BL5-fc0]

zone name B250M2-CH4-BL7-FC0 vsan 1
    member pwwn 50:06:01:60:3e:a0:30:99
    [VNX-5500-A3]
    member pwwn 50:06:01:68:3e:a0:30:99
    [VNX-5500-B3]
    member pwwn 20:00:00:25:b5:b1:1b:5d
    [B250M2-CH4-BL7-fc0]

zone name B200M3-CH1-BL8-FC0 vsan 1
    member pwwn 20:00:00:25:b5:b1:1b:bd
    member pwwn 50:06:01:60:3e:a0:30:99
    [VNX-5500-A3]
    member pwwn 50:06:01:68:3e:a0:30:99
    [VNX-5500-B3]

zoneset name UCS-G2-POD vsan 1
    member B200M3-CH1-BL1-FC0
    member B200M3-CH1-BL2-FC0
    member B200M3-CH1-BL3-FC0
    member B200M3-CH1-BL4-FC0
    member B200M3-CH1-BL5-FC0
member B200M3-CH1-BL6-FC0
member B200M3-CH1-BL7-FC0
member B200M3-CH2-BL8-FC0
member B200M3-CH2-BL1-FC0
member B200M3-CH2-BL2-FC0
member B200M3-CH2-BL3-FC0
member B200M3-CH2-BL4-FC0
member B200M3-CH2-BL5-FC0
member B200M3-CH2-BL6-FC0
member B200M3-CH2-BL7-FC0
member B230M2-CH2-BL8-FC0
member VDI-B200M3-fc0
member B250M2-CH3-BL1-FC0
member B250M2-CH3-BL3-FC0
member B250M2-CH3-BL5-FC0
member B250M2-CH3-BL7-FC0
member B250M2-CH4-BL1-FC0
member B250M2-CH4-BL3-FC0
member B250M2-CH4-BL5-FC0
member B250M2-CH4-BL7-FC0
member B200M3-CH1-BL8-FC0

zoneset name UCS-G2_POD vsan 1
member B250M2-CH3-BL1-FC0
member B250M2-CH3-BL3-FC0
member B250M2-CH3-BL5-FC0
member B250M2-CH3-BL7-FC0
member B250M2-CH4-BL1-FC0
member B250M2-CH4-BL3-FC0
member B250M2-CH4-BL5-FC0
member B250M2-CH4-BL7-FC0
member B200M3-CH1-BL8-FC0

zoneset activate name UCS-G2-Pod vsan 1

A.2 N5548UP-B Configuration
version 5.1(3)N1(1)
feature fcoe
hostname VDI-N5548-B
feature npiv
feature telnet
no feature http-server
cfs eth distribute
feature interface-vlan
feature hsrp
feature lacp
feature dhcp
feature vpc
feature lldp
username admin password 5 $1$9qWNRI95Q4FnoR8nJFKh7SnstB48l. role network-admin
no password strength
check

banner motd #Nexus 5000 Switch
#

ip domain-lookup
logging event link-status default
class-map type qos class-fcoe
class-map type qos match-any class-platinum
  match cos 5
class-map type queuing class-fcoe
  match qos-group 1
class-map type queuing class-platinum
  match qos-group 2
class-map type queuing class-all-flood
  match qos-group 2
class-map type queuing class-ip-multicast
  match qos-group 2
policy-map type qos jumbo
class class-default
  set qos-group 0
policy-map type qos system_qos_policy
class class-platinum
  set qos-group 2
class class-default
  set qos-group 0
policy-map type queuing system_q_in_policy
class type queuing class-platinum
  bandwidth percent 50
class type queuing class-fcoe
  bandwidth percent 20
class type queuing class-default
bandwidth percent 30
policy-map type queuing system_q_out_policy
class type queuing class-platinum
  bandwidth percent 50
class type queuing class-fcoe
  bandwidth percent 20
class type queuing class-default
  bandwidth percent 30
class-map type network-qos class-fcoe
  match qos-group 1
class-map type network-qos class-platinum
  match qos-group 2
class-map type network-qos class-all-flood
  match qos-group 2
class-map type network-qos class-ip-multicast
  match qos-group 2
policy-map type network-qos system_nq_policy
class type network-qos class-platinum
  pause no-drop
  mtu 9216
class type network-qos class-fcoe
  pause no-drop
  mtu 2158
class type network-qos class-default
  mtu 9216
  multicast-optimize
system qos
  service-policy type qos input system_qos_policy
  service-policy type queuing input system_q_in_policy
  service-policy type queuing output system_q_out_policy
  service-policy type network-qos system_nq_policy
slot 1
  port 17-32 type fc
slot 2
snmp-server user admin network-admin auth md5 0xc5412ed536ea582c0459f897b908a999 priv

0xc5412ed536ea582c0459f897b908a999 localizedkey
vrf context management
ip route 0.0.0.0/0 10.29.164.1
vlan 1
  name privateVMDesktop
vlan 121
vlan 122
  name WIN7
vlan 164
  name ESXi_Mgmt
vlan 165
  name Infra_Mgmt
vlan 166
  name Storage_NFS
vlan 167
  name n1k-control
vlan 168
  name n1k-packet
vlan 169
  name vMotion
  service dhcp
  ip dhcp relay
  vpc domain 51
    peer-keepalive destination 10.29.164.53
device-alias database
device-alias name VNX-5500-A2 pwn 50:06:01:61:3e:a0:30:99
device-alias name VNX-5500-B2 pwn 50:06:01:69:3e:a0:30:99
device-alias name B200M3-CH1-BL1-FC1 pwn 20:00:00:25:b5:b1:1b:2f
device-alias name B200M3-CH1-BL2-FC1 pwn 20:00:00:25:b5:b1:1b:cf
device-alias name B200M3-CH1-BL3-FC1 pwn 20:00:00:25:b5:b1:1b:8e
device-alias name B200M3-CH1-BL4-FC1 pwn 20:00:00:25:b5:b1:1b:6e
device-alias name B200M3-CH1-BL5-FC1 pwn 20:00:00:25:b5:b1:1b:4e
device-alias name B200M3-CH1-BL6-FC1 pwn 20:00:00:25:b5:b1:1b:2e
device-alias name B200M3-CH1-BL7-FC1 pwn 20:00:00:25:b5:b1:1b:0e
device-alias name B200M3-CH2-BL1-FC1 pwn 20:00:00:25:b5:b1:1b:fe
device-alias name B200M3-CH2-BL2-FC1 pwn 20:00:00:25:b5:b1:1b:ee
device-alias name B200M3-CH2-BL3-FC1 pwn 20:00:00:25:b5:b1:1b:ce
device-alias name B200M3-CH2-BL4-FC1 pwn 20:00:00:25:b5:b1:1b:6d
device-alias name B200M3-CH2-BL5-FC1 pwn 20:00:00:25:b5:b1:1b:2d
device-alias name B200M3-CH2-BL6-FC1 pwn 20:00:00:25:b5:b1:1b:0d
device-alias name B200M3-CH2-BL7-FC1 pwn 20:00:00:25:b5:b1:1b:fd
device-alias name B250M2-CH3-BL1-FC1 pwn 20:00:00:25:b5:b1:1b:8f
device-alias name B250M2-CH3-BL3-FC1 pwwn 20:00:00:25:b5:b1:1b:4f
device-alias name B250M2-CH3-BL5-FC1 pwwn 20:00:00:25:b5:b1:1b:0f
device-alias name B250M2-CH3-BL7-FC1 pwwn 20:00:00:25:b5:b1:1b:ef
device-alias name B250M2-CH4-BL1-FC1 pwwn 20:00:00:25:b5:b1:1b:6f
device-alias name B250M2-CH4-BL3-FC1 pwwn 20:00:00:25:b5:b1:1b:ff
device-alias name B250M2-CH4-BL5-FC1 pwwn 20:00:00:25:b5:b1:1b:8d
device-alias name B250M2-CH4-BL7-FC1 pwwn 20:00:00:25:b5:b1:1b:4d

device-alias commit

cfdomain fcid database
vsan 1 wwn 50:06:01:69:3e:a0:30:99 fcid 0xd500ef dynamic ! [VNX-5500-B2]
vsan 1 wwn 50:06:01:61:3e:a0:30:99 fcid 0xd501ef dynamic ! [VNX-5500-A2]
vsan 1 wwn 20:4b:54:7f:ee:45:29:80 fcid 0xd50000 dynamic
vsan 1 wwn 20:4c:54:7f:ee:45:2a:40 fcid 0xd50001 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:2e fcid 0xd50002 dynamic ! [B200M3-CH1-BL6-FC1]
vsan 1 wwn 20:00:00:25:b5:b1:1b:7e fcid 0xd50003 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:3e fcid 0xd50004 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:6e fcid 0xd50005 dynamic ! [B200M3-CH1-BL4-FC1]
vsan 1 wwn 20:00:00:25:b5:b1:1b:1e fcid 0xd50006 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:be fcid 0xd50007 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:ee fcid 0xd50008 dynamic ! [B200M3-CH2-BL2-FC1]
vsan 1 wwn 20:00:00:25:b5:b1:1b:0e fcid 0xd50009 dynamic ! [B200M3-CH1-BL7-FC1]
vsan 1 wwn 20:00:00:25:b5:b1:1b:fe fcid 0xd5000a dynamic ! [B200M3-CH2-BL1-FC1]
vsan 1 wwn 20:00:00:25:b5:b1:1b:4e fcid 0xd5000b dynamic ! [B200M3-CH1-BL5-FC1]
vsan 1 wwn 20:00:00:25:b5:b1:1b:5e fcid 0xd5000c dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:8e fcid 0xd5000d dynamic ! [B200M3-CH1-BL3-FC1]
vsan 1 wwn 20:00:00:25:b5:b1:1b:de fcid 0xd5000e dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:ce fcid 0xd5000f dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:ae fcid 0xd50010 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:0f fcid 0xd50011 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:ff fcid 0xd50012 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:cf fcid 0xd50013 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:ef fcid 0xd50014 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:9f fcid 0xd50015 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:7f fcid 0xd50016 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:5f fcid 0xd50017 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:3f fcid 0xd50018 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:bf fcid 0xd50019 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:af fcid 0xd5001a dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:8f fcid 0xd5001b dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:8d fcid 0xd5001c dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:6d fcid 0xd5001d dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:4d fcid 0xd5001e dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:4f fcid 0xd5001f dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:6f fcid 0xd50020 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:2f fcid 0xd50021 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:8d fcid 0xd50023 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:6d fcid 0xd50024 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:4d fcid 0xd50025 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:2d fcid 0xd50026 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:0d fcid 0xd50027 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:fd fcid 0xd50028 dynamic
! [B200M3-CH2-BL7-FC1]
vsan 1 wwn 20:00:00:25:b5:b1:1b:ed fcid 0xd50029 dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:cd fcid 0xd5002a dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:9c fcid 0xd5002b dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:6c fcid 0xd5002c dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:4c fcid 0xd5002d dynamic
vsan 1 wwn 50:06:01:60:3e:a0:30:99 fcid 0xd502ef dynamic
vsan 1 wwn 50:06:01:68:3e:a0:30:99 fcid 0xd503ef dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:ec fcid 0xd5002e dynamic
vsan 1 wwn 20:00:00:25:b5:b1:1b:bd fcid 0xd5002f dynamic

interface Vlan1
  no shutdown

interface Vlan121
  ip address 121.0.0.3/8
  hsrp version 2
  hsrp 121
  preempt
  ip 121.0.0.1

interface Vlan122
  no shutdown
  ip address 122.0.0.3/8
  hsrp version 2
  hsrp 122
  preempt
  ip 122.0.0.1

interface Vlan164
  no shutdown
  ip address 10.29.164.12/24
  hsrp version 2
  hsrp 164
  preempt
  ip 10.29.164.10
interface Vlan165
  no shutdown
  ip address 10.29.165.3/24
  hsrp version 2
  hsrp 165
  preempt
  ip 10.29.165.1

interface Vlan166
  no shutdown
  ip address 10.29.166.3/24
  hsrp version 2
  hsrp 166
  preempt
  ip 10.29.166.1

interface Vlan169
  no shutdown
  ip address 10.10.169.3/24

interface port-channel1
  switchport mode trunk
  spanning-tree cost 4
  spanning-tree port type network
  vpc peer-link

interface port-channel11
  switchport mode trunk
  untagged cos 5
  switchport trunk native vlan 164
  switchport trunk allowed vlan 166
  vpc 11

interface port-channel12
  untagged cos 5
  switchport access vlan 166
  vpc 12

interface port-channel13
switchport access vlan 164

interface port-channel51
  switchport mode trunk
  switchport trunk native vlan 164
  switchport trunk allowed vlan 121-122,164-169
  spanning-tree port type edge trunk
  vpc 51

interface port-channel52
  switchport mode trunk
  switchport trunk native vlan 164
  switchport trunk allowed vlan 121-122,164-169
  spanning-tree port type edge trunk
  vpc 52

interface fc1/17
  no shutdown

interface fc1/18
  no shutdown

interface fc1/19
  no shutdown

interface fc1/20
  no shutdown

interface fc1/21
  no shutdown

interface fc1/22
  no shutdown

interface fc1/23
  no shutdown

interface fc1/24
  no shutdown
interface fc1/25
  no shutdown

interface fc1/26
  no shutdown

interface fc1/27
  no shutdown

interface fc1/28
  no shutdown

interface fc1/29
  no shutdown

interface fc1/30
  no shutdown

interface fc1/31
  no shutdown

interface fc1/32
  no shutdown

interface Ethernet1/1
  switchport access vlan 164
  speed 1000
  channel-group 13 mode active

interface Ethernet1/2
  switchport access vlan 164
  speed 1000
  channel-group 13 mode active

interface Ethernet1/3

interface Ethernet1/4
  switchport mode trunk
switchport trunk native vlan 164
switchport trunk allowed vlan 121-122,164,166

interface Ethernet1/5
description ISL-PEER-LINK
switchport mode trunk
channel-group 1 mode active

interface Ethernet1/6
description ISL-PEER-LINK
switchport mode trunk
channel-group 1 mode active

interface Ethernet1/7

interface Ethernet1/8

interface Ethernet1/9
switchport mode trunk
switchport trunk native vlan 164
switchport trunk allowed vlan 121-122,164-169
channel-group 52 mode active

interface Ethernet1/10
switchport mode trunk
switchport trunk native vlan 164
switchport trunk allowed vlan 121-122,164-169
channel-group 52 mode active

interface Ethernet1/11
switchport mode trunk
switchport trunk native vlan 164
switchport trunk allowed vlan 121-122,164-169
channel-group 51 mode active

interface Ethernet1/12
switchport mode trunk
switchport trunk native vlan 164
switchport trunk allowed vlan 121-122,164-169
channel-group 51 mode active

interface Ethernet1/13

interface Ethernet1/14

interface Ethernet1/15
description VNX-5500-10GB
switchport mode trunk
switchport trunk native vlan 164
switchport trunk allowed vlan 166
channel-group 11 mode active

interface Ethernet1/16
description VNX-5500-10GB
untagged cos 5
switchport access vlan 166

interface mgmt0
  ip address 10.29.164.54/24
line console
line vty
boot kickstart bootflash:/n5000-uk9-kickstart.5.1.3.N1.1.bin
boot system bootflash:/n5000-uk9.5.1.3.N1.1.bin
interface fc1/17
interface fc1/18
interface fc1/19
interface fc1/20
interface fc1/21
interface fc1/22
interface fc1/23
interface fc1/24
interface fc1/25
interface fc1/26
interface fc1/27
interface fc1/28
interface fc1/29
interface fc1/30
interface fc1/31
interface fc1/32

!Full Zone Database Section for vsan 1

zone name B200M3-CH1-BL1-FC1 vsan 1
  member pwwn 50:06:01:61:3e:a0:30:99
    [VNX-5500-A2]
  member pwwn 50:06:01:69:3e:a0:30:99
    [VNX-5500-B2]
  member pwwn 20:00:00:25:b5:b1:1b:2f
    [B200M3-CH1-BL1-FC1]

zone name B200M3-CH1-BL2-FC1 vsan 1
  member pwwn 50:06:01:69:3e:a0:30:99
    [VNX-5500-B2]
  member pwwn 50:06:01:61:3e:a0:30:99
    [VNX-5500-A2]
  member pwwn 20:00:00:25:b5:b1:1b:cf
    [B200M3-CH1-BL2-FC1]

zone name B200M3-CH1-BL3-FC1 vsan 1
  member pwwn 50:06:01:61:3e:a0:30:99
    [VNX-5500-A2]
  member pwwn 50:06:01:69:3e:a0:30:99
    [VNX-5500-B2]
  member pwwn 20:00:00:25:b5:b1:1b:8e
    [B200M3-CH1-BL3-FC1]

zone name B200M3-CH1-BL4-FC1 vsan 1
  member pwwn 20:00:00:25:b5:b1:1b:6e
    [B200M3-CH1-BL4-FC1]
  member pwwn 50:06:01:69:3e:a0:30:99
    [VNX-5500-B2]
  member pwwn 50:06:01:61:3e:a0:30:99
    [VNX-5500-A2]

zone name B200M3-CH2-BL8-FC1 vsan 1
  member pwwn 20:00:00:25:b5:b1:1b:cd
  member pwwn 50:06:01:61:3e:a0:30:99
    [VNX-5500-A2]
  member pwwn 50:06:01:69:3e:a0:30:99
zone name B200M3-CH1-BL6-FC1 vsan 1
 member pwwn 20:00:00:25:b5:b1:1b:2e
 ! [B200M3-CH1-BL6-FC1]
 member pwwn 50:06:01:69:3e:a0:30:99
 ! [VNX-5500-B2]
 member pwwn 50:06:01:61:3e:a0:30:99
 ! [VNX-5500-A2]

zone name B200M3-CH1-BL7-FC1 vsan 1
 member pwwn 50:06:01:61:3e:a0:30:99
 ! [VNX-5500-A2]
 member pwwn 50:06:01:69:3e:a0:30:99
 ! [VNX-5500-B2]
 member pwwn 20:00:00:25:b5:b1:1b:0e
 ! [B200M3-CH1-BL7-FC1]

zone name B200M3-CH1-BL5-FC1 vsan 1
 member pwwn 20:00:00:25:b5:b1:1b:4e
 ! [B200M3-CH1-BL5-FC1]
 member pwwn 50:06:01:61:3e:a0:30:99
 ! [VNX-5500-A2]
 member pwwn 50:06:01:69:3e:a0:30:99
 ! [VNX-5500-B2]

zone name B200M3-CH2-BL1-FC1 vsan 1
 member pwwn 50:06:01:61:3e:a0:30:99
 ! [VNX-5500-A2]
 member pwwn 50:06:01:69:3e:a0:30:99
 ! [VNX-5500-B2]
 member pwwn 20:00:00:25:b5:b1:1b:fe
 ! [B200M3-CH2-BL1-FC1]

zone name B200M3-CH2-BL2-FC1 vsan 1
 member pwwn 20:00:00:25:b5:b1:1b:ee
 ! [B200M3-CH2-BL2-FC1]
 member pwwn 50:06:01:69:3e:a0:30:99
 ! [VNX-5500-B2]
member pwwn 50:06:01:61:3e:a0:30:99
!  [VNX-5500-A2]

zone name B200M3-CH2-BL3-FC1 vsan 1
  member pwwn 50:06:01:61:3e:a0:30:99
!  [VNX-5500-A2]
  member pwwn 50:06:01:69:3e:a0:30:99
!  [VNX-5500-B2]
  member pwwn 20:00:00:25:b5:b1:1b:ce
!  [B200M3-CH2-BL3-FC1]

zone name B200M3-CH2-BL4-FC1 vsan 1
  member pwwn 20:00:00:25:b5:b1:1b:6d
!  [B200M3-CH2-BL4-FC1]
  member pwwn 50:06:01:69:3e:a0:30:99
!  [VNX-5500-B2]
  member pwwn 50:06:01:61:3e:a0:30:99
!  [VNX-5500-A2]

zone name B200M3-CH2-BL5-FC1 vsan 1
  member pwwn 50:06:01:61:3e:a0:30:99
!  [VNX-5500-A2]
  member pwwn 50:06:01:69:3e:a0:30:99
!  [VNX-5500-B2]
  member pwwn 20:00:00:25:b5:b1:1b:2d
!  [B200M3-CH2-BL5-FC1]

zone name B200M3-CH2-BL6-FC1 vsan 1
  member pwwn 20:00:00:25:b5:b1:1b:0d
!  [B200M3-CH2-BL6-FC1]
  member pwwn 50:06:01:69:3e:a0:30:99
!  [VNX-5500-B2]
  member pwwn 50:06:01:61:3e:a0:30:99
!  [VNX-5500-A2]

zone name B200M3-CH2-BL7-FC1 vsan 1
  member pwwn 20:00:00:25:b5:b1:1b:fd
!  [B200M3-CH2-BL7-FC1]
  member pwwn 50:06:01:61:3e:a0:30:99
zone name B230M2-CH2-BL8-FC1 vsan 1  
  member pwwn 50:06:01:69:3e:a0:30:99
zone name B250M2-CH3-BL1-FC1 vsan 1  
  member pwwn 50:06:01:61:3e:a0:30:99
zone name B250M2-CH3-BL3-FC1 vsan 1  
  member pwwn 50:06:01:61:3e:a0:30:99
zone name B250M2-CH3-BL5-FC1 vsan 1  
  member pwwn 20:00:00:25:b5:b1:1b:0f
zone name B250M2-CH3-BL7-FC1 vsan 1  
  member pwwn 50:06:01:61:3e:a0:30:99
zone name B200M2-CH1-SERVER2-FC1 vsan 1  
  member pwwn 50:06:01:69:3e:a0:30:99
zone name B250M2-CH3-BL1-FC1 vsan 1  
  member pwwn 50:06:01:69:3e:a0:30:99
zone name B250M2-CH3-BL3-FC1 vsan 1  
  member pwwn 20:00:00:25:b5:b1:1b:8f
zone name B250M2-CH3-BL5-FC1 vsan 1  
  member pwwn 20:00:00:25:b5:b1:1b:4f
zone name B250M2-CH3-BL7-FC1 vsan 1  
  member pwwn 50:06:01:69:3e:a0:30:99
zone name B250M2-CH4-BL1-FC1 vsan 1
member pwnn 50:06:01:61:3e:a0:30:99
zone name B250M2-CH4-BL2-FC1 vsan 1
member pwnn 50:06:01:69:3e:a0:30:99
zone name B250M2-CH4-BL3-FC1 vsan 1
member pwnn 50:06:01:61:3e:a0:30:99
zone name B250M2-CH4-BL4-FC1 vsan 1
member pwnn 50:06:01:69:3e:a0:30:99
zone name B250M2-CH4-BL5-FC1 vsan 1
member pwnn 50:06:01:61:3e:a0:30:99
zone name B250M2-CH4-BL6-FC1 vsan 1
member pwnn 50:06:01:69:3e:a0:30:99
zone name VDI-B200M3-fc1 vsan 1
member pwnn 20:00:00:25:b5:b1:1b:6c
member pwnn 50:06:01:61:3e:a0:30:99
zone name B200M3-CH1-BL8-FC1 vsan 1
member pwwn 20:00:00:25:b5:b1:1b:ed
member pwwn 50:06:01:69:3e:a0:30:99

zoneset name UCS-G2-POD-B vsan 1
member B200M3-CH1-BL1-FC1
member B200M3-CH1-BL2-FC1
member B200M3-CH1-BL3-FC1
member B200M3-CH1-BL4-FC1
member B200M3-CH2-BL8-FC1
member B200M3-CH1-BL6-FC1
member B200M3-CH1-BL7-FC1
member B200M3-CH1-BL5-FC1
member B200M3-CH2-BL1-FC1
member B200M3-CH2-BL2-FC1
member B200M3-CH2-BL3-FC1
member B200M3-CH2-BL4-FC1
member B200M3-CH2-BL5-FC1
member B200M3-CH2-BL6-FC1
member B200M3-CH2-BL7-FC1
member B200M3-CH2-BL8-FC1
member B230M2-CH2-BL8-FC1
member B250M2-CH3-BL1-FC1
member B250M2-CH3-BL3-FC1
member B250M2-CH3-BL5-FC1
member B250M2-CH3-BL7-FC1
member B250M2-CH4-BL1-FC1
member B250M2-CH4-BL3-FC1
member B250M2-CH4-BL5-FC1
member B250M2-CH4-BL7-FC1
member VDI-B200M3-fc1
member B200M3-CH1-BL8-FC1

zoneset name UCS-G2-POS-B vsan 1
member B200M3-CH1-BLS-FC1

zoneset activate name UCS-G2-POD-B vsan 1

Appendix B—ESXTOP Performance Charts for 2000 User Session During TEST Phase

2000 User ESXi Host 1 B200 M3 Processor Core Utilization Test Phase

![Physical Cpu(_Total)% Util Time Graph]

2000 User ESXi Host 1 B200 M3 Processor Total Utilization Test Phase

![Physical Cpu(_Total)% Core Util Time Graph]
2000 User ESXi Host 1 B200 M3 Cisco VIC1240 MLOM Network Adapter Mbps Received/Transmitted Test Phase

2000 User ESXi Host 1 B200 M3 Cisco VIC1240 MLOM Physical Adapter Mbps Read/Write Test Phase
2000 User ESXi Host 4 B200 M3 Processor Core Utilization Test Phase

\[ ESXi-BFS-Srv4\text{Physical Cpu(Total)}\% \ Core \ Util \ Time \]

2000 User ESXi Host 4 B200 M3 Processor Total Utilization Test Phase

\[ ESXi-BFS-Srv4\text{Physical Cpu(Total)}\% \ Util \ Time \]
2000 User ESXi Host 4 B200 M3 Cisco VIC1240 MLOM Network Adapter Mbps Received/Transmitted Test Phase

2000 User ESXi Host 4 B200 M3 Cisco VIC1240 MLOM Physical Adapter Mbps Read/Write Test Phase
2000 User ESXi Host 4 B200 M3 Memory NonKernel MBytes Test Phase

\ESXi-BFS-Srv4\Memory\NonKernel MBytes

2000 User ESXi Host 5 B200 M3 Processor Core Utilization Test Phase

\ESXi-BFS-Srv5\Physical Cpu(_Total)\% Core Util Time
2000 User ESXi Host 5 B200 M3 Processor Total Utilization Test Phase

\[\ESXi-BFS-Srv5\Physical\ Cpu\(_{\text{Total}}\)\%\ Util\ Time\]

2000 User ESXi Host 5 B200 M3 Cisco VIC1240 MLOM Network Adapter Mbps Received/Transmitted Test Phase

\[\ESXi-BFS-Srv5\Network\ Port(DvsPortset-0:50331660:vmnic0)\MBits\ Received/sec\]
\[\ESXi-BFS-Srv5\Network\ Port(DvsPortset-0:50331663:vmnic4)\MBits\ Received/sec\]
\[\ESXi-BFS-Srv5\Network\ Port(DvsPortset-0:50331664:vmnic5)\MBits\ Received/sec\]
\[\ESXi-BFS-Srv5\Network\ Port(DvsPortset-0:50331667:vmnic1)\MBits\ Received/sec\]
\[\ESXi-BFS-Srv5\Network\ Port(DvsPortset-0:50331660:vmnic0)\MBits\ Transmitted/sec\]
2000 User ESXi Host 5 B200 M3 Cisco VIC1240 MLOM Physical Adapter Mbps Read/Write Test Phase

2000 User ESXi Host 5 B200 M3 Memory NonKernel MBytes Test Phase

2000 User ESXi Host 6 B200 M3 Processor Core Utilization Test Phase
2000 User ESXi Host 6 B200 M3 Cisco VIC1240 MLOM Physical Adapter Mbps Read/Write Test Phase

2000 User ESXi Host 6 B200 M3 Memory NonKernel MBBytes Test Phase

2000 User ESXi Host 7 B200 M3 Processor Core Utilization Test Phase
2000 User ESXi Host 7 B200 M3 Processor Total Utilization Test Phase

![Physical CPU Utilization Graph]

2000 User ESXi Host 7 B200 M3 Cisco VIC1240 MLOM Network Adapter Mbps Received/Transmitted Test Phase

![Network Port Bandwidth Graph]

2000 User ESXi Host 7 B200 M3 Cisco VIC1240 MLOM Physical Adapter Mbps Read/Write Test Phase

![Physical Disk Adapter Bandwidth Graph]
2000 User ESXi Host 7 B200 M3 Memory NonKernel MBytes Test Phase

\[\text{ESXi-BFS-Srv7}\backslash\text{Memory}\backslash\text{NonKernel MBytes}\]

2000 User ESXi Host 8 B200 M3 Processor Core Utilization Test Phase

\[\text{ESXi5-BFS-Srv8}\backslash\text{Physical Cpu\(_\text{Total}\)}\backslash\%\text{ Core Util Time}\]
2000 User ESXi Host 9 B200 M3 Cisco VIC1240 MLOM Network Adapter Mbps Received/Transmitted Test Phase

2000 User ESXi Host 9 B200 M3 Cisco VIC1240 MLOM Physical Adapter Mbps Read/Write Test Phase

2000 User ESXi Host 9 B200 M3 Memory NonKernel MBytes Test Phase
2000 User ESXi Host 1 B200 M3 Processor Core Utilization Test Phase

2000 User ESXi Host 1 B200 M3 Processor Total Utilization Test Phase
2000 User ESXi Host 10 B200 M3 Cisco VIC1240 MLOM Network Adapter Mbps Received/Transmitted Test Phase

2000 User ESXi Host 10 B200 M3 Cisco VIC1240 MLOM Physical Adapter Mbps Read/Write Test Phase

2000 User ESXi Host 10 B200 M3 Memory NonKernel MBytes Test Phase
2000 User ESXi Host 11 B200 M3 Processor Core Utilization Test Phase

![Graph showing processor core utilization over time.]

2000 User ESXi Host 11 B200 M3 Processor Total Utilization Test Phase

![Graph showing processor total utilization over time.]

2000 User ESXi Host 12 B200 M3 Processor Core Utilization Test Phase

\[\text{ESXi5-BFS-Srv12}\text{Physical Cpu\_Total}\% \text{ Core Util Time}\]

2000 User ESXi Host 12 B200 M3 Processor Total Utilization Test Phase

\[\text{ESXi5-BFS-Srv12}\text{Physical Cpu\_Total}\% \text{ Util Time}\]
2000 User ESXi Host 12 B200 M3 Cisco VIC1240 MLOM Network Adapter Mbps Received/Transmitted Test Phase

\(:\) \(\text{ESXi5-BFS-Srv12}\rightarrow \text{Network Port}(\text{DvsPortset-0:50331660:vmnic0})\rightarrow \text{Mbps Received/sec}\)

\(\text{ESXi5-BFS-Srv12}\rightarrow \text{Network Port}(\text{DvsPortset-0:50331661:vmnic1})\rightarrow \text{Mbps Received/sec}\)

\(\text{ESXi5-BFS-Srv12}\rightarrow \text{Network Port}(\text{DvsPortset-0:50331664:vmnic4})\rightarrow \text{Mbps Received/sec}\)

\(\text{ESXi5-BFS-Srv12}\rightarrow \text{Network Port}(\text{DvsPortset-0:50331665:vmnic5})\rightarrow \text{Mbps Received/sec}\)

2000 User ESXi Host 12 B200 M3 Cisco VIC1240 MLOM Physical Adapter Mbps Read/Write Test Phase

\(\text{ESXi5-BFS-Srv12}\rightarrow \text{Physical Disk Adapter}(\text{vmhba2})\rightarrow \text{Mbps Read/sec}\)

\(\text{ESXi5-BFS-Srv12}\rightarrow \text{Physical Disk Adapter}(\text{vmhba1})\rightarrow \text{Mbps Read/sec}\)

\(\text{ESXi5-BFS-Srv12}\rightarrow \text{Physical Disk Adapter}(\text{vmhba2})\rightarrow \text{Mbps Written/sec}\)

\(\text{ESXi5-BFS-Srv12}\rightarrow \text{Physical Disk Adapter}(\text{vmhba1})\rightarrow \text{Mbps Written/sec}\)

2000 User ESXi Host 12 B200 M3 Memory NonKernel MBytes Test Phase

\(\text{ESXi5-BFS-Srv12}\rightarrow \text{Memory NonKernel MBytes}\)
2000 User ESXi Host 14 B200 M3 Processor Core Utilization Test Phase

\[\text{\ ESXi5-BFS-Srv14\ Physical Cpu\(_{\text{Total}}\)\% Core Util Time} \]

2000 User ESXi Host 14 B200 M3 Processor Total Utilization Test Phase

\[\text{\ ESXi5-BFS-Srv14\ Physical Cpu\(_{\text{Total}}\)\% Util Time} \]
Appendix B—ESXTOP Performance Charts for 2000 User Session During Boot Phase

2000 User ESXi Host 1 B200 M3 Processor Core Utilization Time Boot Phase

2000 User ESXi Host 1 B200 M3 Processor Total Utilization Time Boot Phase
2000 User ESXi Host 2 B200 M3 Processor Core Utilization Time Boot Phase

![Graph of Core Utilization Time Boot Phase]

2000 User ESXi Host 2 B200 M3 Processor Total Utilization Time Boot Phase

![Graph of Total Utilization Time Boot Phase]
2000 User ESXi Host 5 B200 M3 Processor Total Utilization Time Boot Phase

\[\text{Physical CPU}\%\text{ Util Time}\]

2000 User ESXi Host 5 B200 M3 Cisco VIC1240 MLOM Network Adapter Mbps Received/Transmitted Boot Phase

2000 User ESXi Host 5 B200 M3 Cisco VIC1240 MLOM Physical Disk Adapter MBps Read/Write Boot Phase
2000 User ESXi Host 5 B200 M3 Memory NonKernel MBytes Boot Phase

2000 User ESXi Host 6 B200 M3 Processor Core Utilization Time Boot Phase

2000 User ESXi Host 6 B200 M3 Processor Total Utilization Time Boot Phase
2000 User ESXi Host 7 B200 M3 Cisco VIC1240 MLOM Physical Disk Adapter MBps Read/Write Boot Phase

2000 User ESXi Host 7 B200 M3 Memory NonKernel MBytes Boot Phase

2000 User ESXi Host 8 B200 M3 Processor Core Utilization Time Boot Phase
2000 User ESXi Host 8 B200 M3 Processor Total Utilization Time Boot Phase

\[\text{Physical Cpu\(_\text{Total}\)% Util Time}\]

2000 User ESXi Host 8 B200 M3 Cisco VIC1240 MLOM Network Adapter Mbps Received/Transmitted Boot Phase

2000 User ESXi Host 8 B200 M3 Cisco VIC1240 MLOM Physical Disk Adapter MBps Read/Write Boot Phase
2000 User ESXi Host 11 B200 M3 Memory NonKernel MBytes Boot Phase

\[ESXi5-BFS-SRV11\text{Memory\NonKernel MBytes}\]

2000 User ESXi Host 12 B200 M3 Processor Core Utilization Time Boot Phase

\[ESXi5-BFS-Srv12\text{Physical Cpu\_Total\% Core Util Time}\]

2000 User ESXi Host 12 B200 M3 Processor Total Utilization Time Boot Phase

\[ESXi5-BFS-Srv12\text{Physical Cpu\_Total\% Util Time}\]
2000 User ESXi Host 12 B200 M3 Cisco VIC1240 MLOM Network Adapter Mbps Received/Transmitted Boot Phase

2000 User ESXi Host 12 B200 M3 Cisco VIC1240 MLOM Physical Disk Adapter MBps Read/Write Boot Phase

2000 User ESXi Host 12 B200 M3 Memory NonKernel MBytes Boot Phase
2000 User ESXi Host 13 B200 M3 Processor Core Utilization Time Boot Phase

\[ESXi5-BFS-SRV13\] Physical Cpu(_Total)_% Core Util Time

2000 User ESXi Host 13 B200 M3 Processor Total Utilization Time Boot Phase

\[ESXi5-BFS-SRV13\] Physical Cpu(_Total)_% Util Time

2000 User ESXi Host 13 B200 M3 Cisco VIC1240 MLOM Network Adapter Mbps Received/Transmitted Boot Phase

\[ESXi5-BFS-SRV13\] Network Port(DvsPortset-0:50331660:vmnic0)\ Mbps Received/sec
\[ESXi5-BFS-SRV13\] Network Port(DvsPortset-0:50331661:vmnic1)\ Mbps Received/sec
\[ESXi5-BFS-SRV13\] Network Port(DvsPortset-0:50331664:vmnic4)\ Mbps Received/sec
\[ESXi5-BFS-SRV13\] Network Port(DvsPortset-0:50331665:vmnic5)\ Mbps Received/sec
\[ESXi5-BFS-SRV13\] Network Port(DvsPortset-0:50331660:vmnic0)\ Mbps Transmitted/sec
2000 User ESXi Host 14 B200 M3 Memory NonKernel MBytes Boot Phase

\(\text{ESXi-5-BFS-Srv14}\) Memory\NonKernel MBytes

Graph showing the memory usage in NonKernel MBytes over time from 9:04:36 AM to 9:34:39 AM.