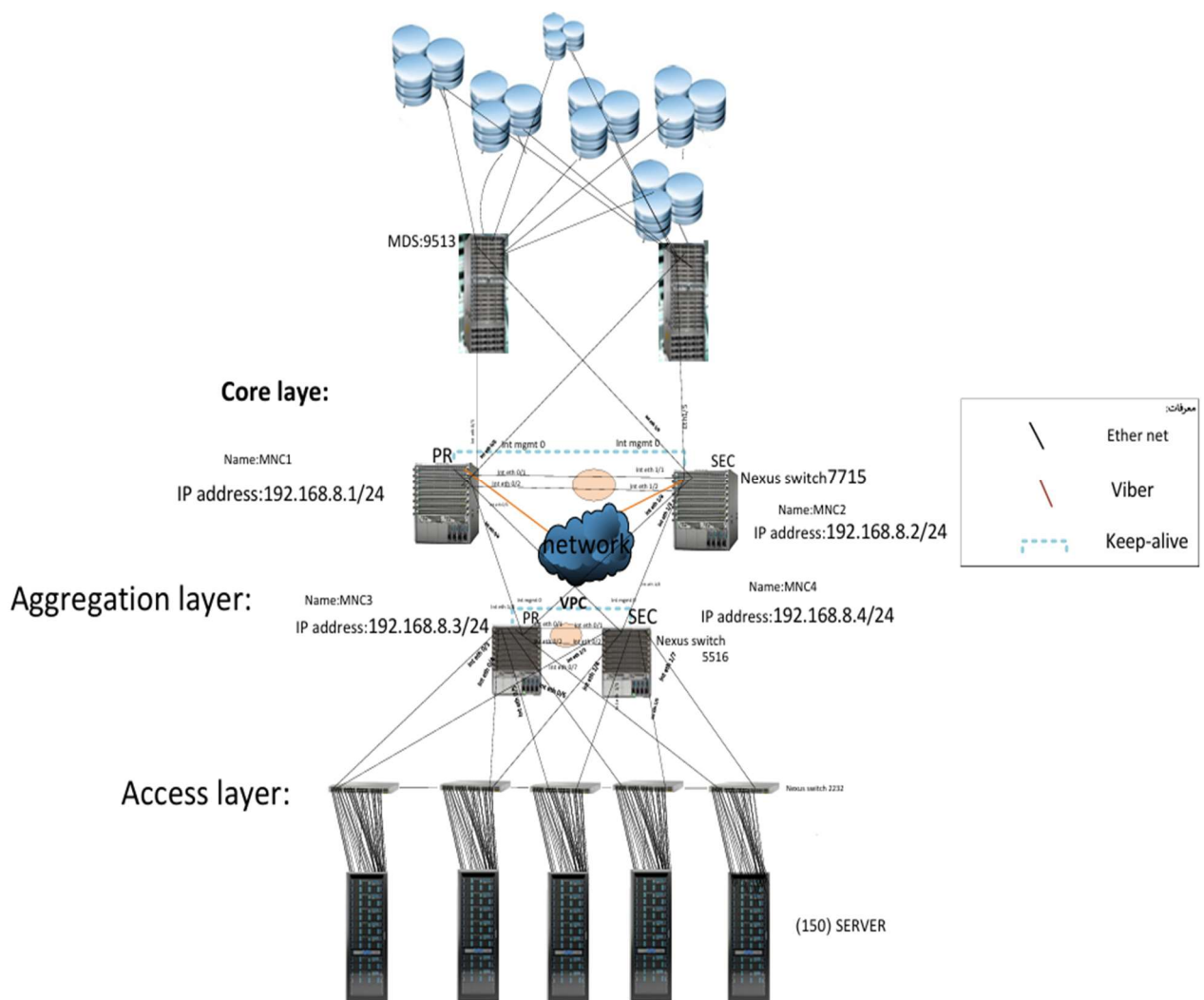




الشبكة مكونة من:

Server: (150)

Nexus switch 2232: (5)

Nexus switch 5516: (2)

Nexus switch 7715: (2)

MDS:9513: (2)

Cables: (230)

-البروتوكولات المستخدمة

بروتکولات (MNS-1) VPC

```
MNC1 (config)# feature vpc
MNC1 (config)# feature lacp
MNC1 (config)# interface mgmt 0
MNC1 (config-if)# ip address 192.168.8.1/24
MNC1 (config-if)# no shut
MNC1 (config-if)# exit
MNC1 (config)# vpc domain 10
MNC1 (config-vpc-domain)# role priority 15
MNC1 (config-vpc-domain)# peer-keepalive destination 192.168.8.2 source 192.168.8.1 vrf management
MNC1 (config-vpc-domain)# exit
MNC1 (config-if)# interface ethernet 1/6-7
MNC1 (config-if-range)# description **vPC Peer-Link**
MNC1 (config-if-range)# channel-group 15 mode active
MNC1 (config-if-range)# no shut
MNC1 (config-if-range)# interface port-channel 15
MNC1 (config-if)# description **vPC Peer-Link**
MNC1 (config-if)# no shut
MNC1 (config-if)# switchport
MNC1 (config-if)# switchport mode trunk
MNC1 (config-if)# vpc peer-link
MNC1 (config-if)# interface ethernet 0/1-2
MNC1 (config-if-range)# channel-group 15 mode active
MNC1 (config-if-range)# no shut
MNC1 (config-if-range)# interface port-channel 15
MNC1 (config-if)# switchport
MNC1 (config-if)# vpc 15
MNC1 (config-if)# interface ethernet 0/6
```

MNC1 (config-if)# no shutdown MNC1 (config-if)# exit

Configuration vPC on MNC2

MNC2 (config)# feature vpc

MNC2 (config)# feature lacp

MNC2 (config)# interface mgmt 0

MNC2 (config-if)# ip address 192.168.8.2/24

MNC2 (config-if)# no shut

MNC2 (config-if)# exit

MNC2 (config)# vpc domain 10

MNC2 (config-vpc-domain)# role priority 20

MNC2 (config-vpc-domain)# peer-keepalive destination 192.168.8.1 source 192.168.8.2 vrf management

MNC2 (config-vpc-domain)# exit

MNC2 (config-if)# interface ethernet 1/6-7

MNC2 (config-if-range)# description **vPC Peer-Link**

MNC2 (config-if-range)# channel-group 15 mode active

MNC2 (config-if-range)# no

MNC2 (config-if-range)# interface port-channel 15

MNC2 (config-if)# description **vPC Peer-Link**

MNC2 (config-if)# no shut

MNC2 (config-if)# switchport

MNC2 (config-if)# switchport mode trunk

MNC2 (config-if)# vpc peer-link

MNC2 (config-if)# interface ethernet 1/6-7

MNC2 (config-if-range)# channel-group 8 mode active

MNC2 (config-if-range)# no shut

MNC2 (config-if-range)# interface port-channel 15

MNC2 (config-if)# switchport

```
MNC2 (config-if)# vpc 15
MNC2 (config-if)# interface ethernet 1/1
MNC2 (config-if)# no shutdown
MNC2 (config-if)# exit
```

Configuration Fabric Path on MND1

```
MND1 (config)# vlan 100
MND1 (config)# ex
MND1 (config-if)# int e0/1-2
MND1 (config-if)# switchport mode trunk
MND1 (config-if)# switchport trunk allowed vlan 100
MND1 (config-if)# no shut
MND1 (config)# end
MND1 (config)# spanning-tree vlan 100 priority 8192
MND1 (config)# end
MND1 (config)#feature-set
MND1 (config)#feature-set fabricpath
MND1 (config)#vlan 100
MND1 (config)# mode fabbricpath
MND1 (config)# exit
MND1 (config)# int e0/1-2
MND1 (config)# switchport mode fabricpath
MND1 (config)#no shut
MND1 (config)# end
```

Configuration FabricPath on MND2

```
MND2 (config)# vlan 100
MND2 (config)# ex
MND2 (config-if)# int e1/1
MND2 (config-if)# switchport mode trunk
MND2(config-if)# switchport trunk allowed vlan 100
MND2 (config-if)# no shut
MND2 (config)# end
MND2(config)# installvfeature-set fabricpath
MND2 (config)#feat
MND2 (config)#feature-set fabricpath
MND2 (config)# vlan 100
MND2 (config)# exit
MND2 (config)# int e1/1-2
MND2 (config)# switchport mode fabricpath
MND2 (config)# no shut
MND2 (config)# end
```

بروتکولات (MNS-3) VPC

```
MNC3 (config)# feature vpc
```

```
MNC3 (config)# feature lacp
```

```
MNC3 (config)# interface mgmt 0
```

```
MNC3 (config-if)# ip address 192.168.8.3/24
```

```
MNC3 (config-if)# no shut
```

```
MNC3(config-if)# exit MNC1 (config)# vpc domain 10
```

```
MNC3 (config-vpc-domain)# role priority 15
```

```
MNC3 (config-vpc-domain)# peer-keepalive destination 192.168.8.4 source 192.168.8.3 vrf  
management
```

```
MNC3 (config-vpc-domain)# exit
```

```
MNC3 (config-if)# interface ethernet 1/6-7
```

```
MNC3 (config-if-range)# description **vPC Peer-Link**
```

```
MNC3 (config-if-range)# channel-group 15 mode active
```

```
MNC3 (config-if-range)# no shut
```

```
MNC3 (config-if-range)# interface port-channel 15
```

```
MNC3(config-if)# description **vPC Peer-Link**
```

```
MNC3 (config-if)# no shut
```

```
MNC3 (config-if)# switchport
```

```
MNC3 (config-if)# switchport mode trunk
```

```
MNC3(config-if)# vpc peer-link
```

```
MNC3 (config-if)#interface ethernet 1/7-8
```

```
MNC3 (config-if-range)# channel-group 16 mode active
```

```
MNC3 (config-if-range)# no shut
```

```
MNC3 (config-if-range)# interface port-channel 16
```

```
MNC3 (config-if)# switchport
```

```
MNC 3(config-if)# vpc 7
```

MNC3 (config-if)# interface ethernet 0/1

MNC3 (config-if)# no shutdown MNC1 (config-if)# exit

Configuration vPC on MNC4

MNC4 (config)# feature vpc

MNC4 (config)# feature lacp

MNC4 (config)# interface mgmt 0

MNC4 (config-if)# ip address 192.168.8.4/24

MNC4 (config-if)# no shut

MNC4 (config-if)# exit

MNC4 (config)# vpc domain 10

MNC4 (config-vpc-domain)# role priority 20

MNC4 (config-vpc-domain)# peer-keepalive destination 192.168.8.3 source 192.168.8.4 vrf management

MNC4 (config-vpc-domain)# exit

MNC4 (config-if)# interface ethernet 1/7-8

MNC4 (config-if-range)# description **vPC Peer-Link**

MNC4 (config-if-range)# channel-group 16 mode active

MNC4 (config-if-range)# no

MNC4 (config-if-range)# interface port-channel 16

MNC4 (config-if)# description **vPC Peer-Link**

MNC4 (config-if)# no shut

MNC4 (config-if)# switchport

MNC4 (config-if)# switchport mode trunk

MNC4 (config-if)# vpc peer-link

MNC4 (config-if)# interface ethernet 1/7-8

MNC4 (config-if-range)# channel-group 16 mode active

MNC4 (config-if-range)# no shut

MNC4 (config-if-range)# interface port-channel 16

MNC4 (config-if)# switchport

```
MNC4(config-if)# vpc 10
MNC4 (config-if)# interface ethernet 1/1
MNC4 (config-if)# no shutdown
MNC4(config-if)# exit
```

Configuration Fabric Path on MND3

```
MND3 (config)# vlan 100
MND3 (config)# ex
MND3(config-if)# int e0/1
MND3 (config-if)# switchport mode trunk
MND3(config-if)# switchport trunk allowed vlan 100
MND3 (config-if)# no shut
MND3 (config)# end
MND3(config)# spanning-tree vlan 100 priority 8192
MND3 (config)# end
MND3 (config)#feature-set
MND3 (config)#feature-set fabricpath
MND3 (config)#vlan 100
MND3 (config)# mode fabbricpath
MND3 (config)# exit
MND3(config)# int e0/1-2
MND3 (config)# switchport mode fabricpath
MND3 (config)#no shut
MND3 (config)# end
```

Configuration FabricPath on MND4

```
MND4 (config)# vlan 100
MND4 (config)# ex
MND4 (config-if)# int e1/1
```

```
MND4 (config-if)# switchport mode trunk
MND4(config-if)# switchport trunk allowed vlan 100
MND4 (config-if)# no shut
MND4 (config)# end
MND4(config)# installvfeature-set fabricpath
MND4 (config)#feat
MND4 (config)#feature-set fabricpath
MND4(config)# vlan 100
MND4 (config)# exit
MND4 (config)# int e1/1-2
MND4 (config)# switchport mode fabricpath
MND4 (config)# no shut
MND4 (config)# end
```