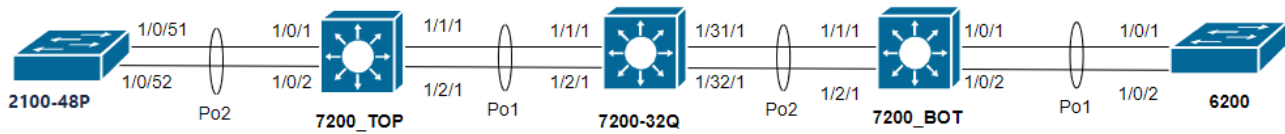


-VXLAN Test1



```

:
, vxlan- :

```

```

Interface Ethernet1/0/1
speed-duplex force10g-full
description TO_2100-48P
switchport mode trunk
xconnect nvi 10 mode vlan svid 300
xconnect nvi 10 mode vlan svid 400

```

2) xconnect (CE).

```

Switch(config)#int port-channel 10
Switch(config-if-port-channel10)#xconnect nvi 1 mode vlan svid 300
Switch(config-if-port-channel10)#xconnect nvi 1 mode vlan svid 400
Switch(config-if-port-channel10)#show run current-mode
!

```

```

Interface Port-Channel10
xconnect nvi 1 mode vlan svid 300
xconnect nvi 1 mode vlan svid 400
!

```



7200_BOT BGP 1. 7200_TOP BGP 100

```
Leaf1-7200-TOP#show nvi nve tunnel

NVI 10 vxlan-id 10
Nve name      state      source      destination

Leaf1-7200-TOP#
```

```
Leaf1-7200-TOP(config-router)#show ip bgp summary
BGP router identifier 10.255.255.3, local AS number 100
BGP table version is 1
1 BGP AS-PATH entries
0 BGP community entries

Neighbor      V      AS MsgRcvd MsgSent  TblVer  InQ  OutQ  Up/Down  State/PfxRcd
10.255.255.2  4      100      0      2       0    0    0      never OpenSent

Total number of neighbors 1
```

BGP, NVI.

```
Leaf1-7200-TOP#show ip bgp summary
BGP router identifier 10.255.255.3, local AS number 100
BGP table version is 1
1 BGP AS-PATH entries
0 BGP community entries

Neighbor      V      AS MsgRcvd MsgSent  TblVer  InQ  OutQ  Up/Down  State/PfxRcd
10.255.255.2  4      100     66     65       1    0    0 00:47:29      0

Total number of neighbors 1

Leaf1-7200-TOP#
Leaf1-7200-TOP#show nvi nve tunnel

NVI 10 vxlan-id 10
Nve name      state      source      destination
Nve1          UP        10.255.255.3  10.255.255.2
```

. vlan+svi , leaf - trunk (all) xconnect svid, .

```
debug driver send int 1/0/1 protocol all detail
debug driver recive int 1/0/1 protocol all detail
debug ip packet
no debug all
```

Leaf1-7200-TOP#show run

```
!!
switch convert mode stand-alone
vsf member 2
vsf priority 16
!!
!
service password-encryption
```

```
!  
hostname Leaf1-7200-TOP  
sysLocation 123007, Moscow, 1-st Magistralnaya street, 13b7  
sysContact 8(800)302-42-57  
!  
multi config access  
authentication logging enable  
!  
username admin privilege 15 password 7 88ad795fe330411b653d6f18e8e4f4e5  
username zakko privilege 15 password 7 cc5f68197114476743ac55440382994e  
username almazova privilege 15 password 7 d847387773bad3c36c767e1c2ec20489  
!  
authentication line console login local  
!  
!  
!  
!  
ssh-server enable  
ssh-server timeout 600  
!  
info-center logfile 4 config count 40960 flash logfile.log  
info-center logfile 4 output-enable  
info-center logfile 4 match level warnings  
info-center logfile 3 record-cmd  
info-center logfile 4 record-cmd  
!  
!  
!  
lldp enable  
!  
!  
Interface Ethernet0  
 ip address 192.168.255.11 255.255.255.0  
!  
!  
!  
!  
evpn nve source-address 10.255.255.3  
!  
port-group 1  
!  
port-group 2  
!  
!  
vlan 1;300-302  
!  
vlan 10  
 name CE-PE-p2p-L3  
!  
vlan 1000  
 name PE1-P-p2p  
!  
loopback-group 3  
!  
nvi 10  
 vxlan-id 10  
 evpn  
 rd 1:1  
 route-target both 1:1  
 route-target both 2:2  
 enable  
 evpn-exit  
!  
!  
Interface Ethernet1/0/1  
 speed-duplex force10g-full  
 description TO_2100-48P  
 switchport mode trunk  
 port-group 2 mode active  
!
```

```
Interface Ethernet1/0/2
  speed-duplex force10g-full
  description TO_2100-48P
  switchport mode trunk
  port-group 2 mode active
!
Interface Ethernet1/0/3
  speed-duplex force10g-full
!
Interface Ethernet1/0/4
  speed-duplex force10g-full
!
Interface Ethernet1/0/5
!
Interface Ethernet1/0/6
!
Interface Ethernet1/0/7
!
Interface Ethernet1/0/8
!
Interface Ethernet1/0/9
!
Interface Ethernet1/0/10
!
Interface Ethernet1/0/11
!
Interface Ethernet1/0/12
!
Interface Ethernet1/0/13
!
Interface Ethernet1/0/14
!
Interface Ethernet1/0/15
!
Interface Ethernet1/0/16
!
Interface Ethernet1/0/17
!
Interface Ethernet1/0/18
!
Interface Ethernet1/0/19
!
Interface Ethernet1/0/20
!
Interface Ethernet1/0/21
!
Interface Ethernet1/0/22
!
Interface Ethernet1/0/23
!
Interface Ethernet1/0/24
!
Interface Ethernet1/0/25
!
Interface Ethernet1/0/26
!
Interface Ethernet1/0/27
!
Interface Ethernet1/0/28
!
Interface Ethernet1/0/29
!
Interface Ethernet1/0/30
!
Interface Ethernet1/0/31
!
Interface Ethernet1/0/32
!
Interface Ethernet1/0/33
!
Interface Ethernet1/0/34
```

```
!  
Interface Ethernet1/0/35  
!  
Interface Ethernet1/0/36  
!  
Interface Ethernet1/0/37  
!  
Interface Ethernet1/0/38  
!  
Interface Ethernet1/0/39  
!  
Interface Ethernet1/0/40  
!  
Interface Ethernet1/0/41  
!  
Interface Ethernet1/0/42  
!  
Interface Ethernet1/0/43  
!  
Interface Ethernet1/0/44  
!  
Interface Ethernet1/0/45  
!  
Interface Ethernet1/0/46  
!  
Interface Ethernet1/0/47  
!  
Interface Ethernet1/0/48  
!  
Interface Ethernet1/1/1  
  description TO_7200-32Q  
  switchport mode trunk  
  switchport trunk allowed vlan 1000  
  port-group 1 mode active  
!  
Interface Ethernet1/2/1  
  description TO_7200-32Q  
  switchport mode trunk  
  switchport trunk allowed vlan 1000  
  port-group 1 mode active  
!  
Interface Ethernet1/3/1  
!  
Interface Ethernet1/4/1  
!  
Interface Ethernet1/5/1  
  loopback-group 3  
!  
Interface Ethernet1/6/1  
!  
Interface Port-Channel1  
  description TO_7200-32Q  
!  
Interface Port-Channel2  
  description TO_2100-48P  
  xconnect nvi 10 mode vlan svid 300  
  xconnect nvi 10 mode vlan svid 301  
  xconnect nvi 10 mode vlan svid 302  
!  
vxlan proxy loopback-group 3  
!  
interface Vlan1  
!  
interface Vlan10  
  ip address 192.168.200.2 255.255.255.252  
!  
interface Vlan1000  
  ip address 172.21.1.1 255.255.255.252  
!  
interface Loopback1  
  ip address 10.255.255.3 255.255.255.255
```

```

!
router ospf 1
  ospf router-id 10.255.255.3
  network 10.255.255.3 0.0.0.0 area 1
  network 172.21.1.0 0.0.0.3 area 0
  network 192.168.200.0 0.0.0.3 area 1
!
router bgp 100
  neighbor 10.255.255.2 remote-as 100
  neighbor 10.255.255.2 update-source 10.255.255.3
  address-family l2vpn evpn
  neighbor 10.255.255.2 activate
  exit-address-family
!
ip route 10.0.254.0/23 192.168.255.1
ip route 83.243.66.8/29 192.168.255.1
!
!
exec-timeout 30 0
no login
!
end

```

```

Leaf1-7200-TOP#show ip bgp summary
BGP router identifier 10.255.255.3, local AS number 100
BGP table version is 1
1 BGP AS-PATH entries
0 BGP community entries

Neighbor      V      AS MsgRcvd MsgSent  TblVer  InQ  OutQ  Up/Down  State/PfxRcd
10.255.255.2  4      100    57    56        1    0    0 00:39:58      0

Total number of neighbors 1

Leaf1-7200-TOP#show ip bgp evpn all
BGP local router ID is 10.255.255.3
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal, l - local
               S Stale
Origin codes: i - IGP, e - EGP, ? - incomplete

network format description
RT-1:[RT][ESI][ETID]
RT-2:[RT][ETID][MAC][IPv4/v6]
RT-3:[RT][ETID][IPv4/v6]
RT-4:[RT][ESI][IPv4/v6]
RT-5:[RT][ETID][Prefix len][Prefix]
Route Distinguisher 1:1

  Network      Next Hop      Metric      LocPrf      Weight Path
*>l[3][300][10.255.255.3]
      10.255.255.3
      100      32768  ?

*>l[3][301][10.255.255.3]
      10.255.255.3
      100      32768  ?

*>l[3][302][10.255.255.3]
      10.255.255.3
      100      32768  ?

Route Distinguisher 2:2

  Network      Next Hop      Metric      LocPrf      Weight Path
*>i[3][300][10.255.255.2]
      10.255.255.2
      100      0      ?

*>i[3][301][10.255.255.2]
      10.255.255.2
      100      0      ?

*>i[3][302][10.255.255.2]

```

10.255.255.2 100 0 ?

```
Leaf1-7200-TOP#show ip bgp neighbors
BGP neighbor is 10.255.255.2, remote AS 100, local AS 100, internal link
  BGP version 4, remote router ID 10.255.255.2
  BGP state = Established, up for 00:40:12
  Last read 00:40:12, hold time is 240, keepalive interval is 60 seconds
  Neighbor capabilities:
    Route refresh: advertised and received (old and new)
    Four bytes AS: advertised and received
    Address family IPv4 Unicast: advertised and received
    Address family L2VPN EVPN: advertised and received
  Received 57 messages, 0 notifications, 0 in queue
  Sent 56 messages, 0 notifications, 0 in queue
  Route refresh request: received 0, sent 0
  Minimum time between advertisement runs is 5 seconds
  Update source is 10.255.255.3
```

```
For address family: IPv4 Unicast
  BGP table version 1, neighbor version 1
  Index 1, Offset 0, Mask 0x2
  Community attribute sent to this neighbor (both)
  0 accepted prefixes
  0 announced prefixes
```

```
For address family: L2VPN EVPN
  BGP table version 68, neighbor version 68
  Index 1, Offset 0, Mask 0x2
  Community attribute sent to this neighbor (both)
  3 accepted prefixes
  3 announced prefixes
```

```
Connections established 1; dropped 0
Local host: 10.255.255.3, Local port: 179
Foreign host: 10.255.255.2, Foreign port: 33139
Nexthop: 10.255.255.3
Nexthop global: fe80::1ac3:f4ff:feb0:e2b
Nexthop local: ::
BGP connection: non shared network
```

```
Leaf1-7200-TOP#
Leaf1-7200-TOP#show vxlan mac-address-table
Read mac address table...
```

Nvi-id	Mac Address	Type	Creator	Ports
--------	-------------	------	---------	-------

```
Leaf1-7200-TOP#
Leaf1-7200-TOP#
Leaf1-7200-TOP#show vxlan mac-address-table
Read mac address table...
```

Nvi-id	Mac Address	Type	Creator	Ports
10	18-c3-f4-b0-01-01	DYNAMIC	Hardware	Nve1
10	18-c3-f4-b0-06-1f	DYNAMIC	Hardware	Port-Channel2

```
Leaf1-7200-TOP#
Leaf1-7200-TOP#show nvi nve tunnel
```

```
NVI 10 vxlan-id 10
Nve name state source destination
Nve1 UP 10.255.255.3 10.255.255.2
```

```
Leaf1-7200-TOP#
Leaf1-7200-TOP#show evpn nve all
```

VXLAN ID	Address	LR
10	10.255.255.3	LOCAL
10	10.255.255.2	REMOTE

```
Leaf1-7200-TOP#
```

```
Leaf1-7200-TOP#show evpn nvi all
EVPN Instance (NVI 10)
  Encapsulation VXLAN
  VNI: 10
  Status: ACTIVE
  Route Distinguisher: 1:1
  Import Route Target
    RT: 1:1
    RT: 2:2
  Export Route Target
    RT: 1:1
    RT: 2:2
  NVE Source Address: 10.255.255.3 (GLOBAL_USED)
  Duplication MAC-Address Detect
    Detect time: 180      Max moves: 5
```

Leaf-2-7200-BOT#show run

```
!!
switch convert mode stand-alone
vsf member 1
vsf priority 32
!!
!
service password-encryption
!
hostname Leaf-2-7200-BOT
sysLocation 123007, Moscow, 1-st Magistralnaya street, 13b7
sysContact 8(800)302-42-57
!
multi config access
authentication logging enable
!
username admin privilege 15 password 7 88ad795fe330411b653d6f18e8e4f4e5
username zakko privilege 15 password 7 cc5f68197114476743ac55440382994e
username almazova privilege 15 password 7 d847387773bad3c36c767e1c2ec20489
!
authentication line console login local
!
!
!
!
!
ssh-server enable
ssh-server timeout 600
!
info-center logfile 4 config count 40960 flash logfile.log
info-center logfile 4 output-enable
info-center logfile 4 match level warnings
info-center logfile 4 record-cmd
!
!
!
lldp enable
  spanning-tree mode rstp
spanning-tree
!
!
!
Interface Ethernet0
  ip address 192.168.255.15 255.255.255.0
!
!
!
!
evpn nve source-address 10.255.255.2
```

```
!  
port-group 1  
!  
port-group 2  
!  
!  
vlan 1;300-302  
!  
vlan 20  
  name CE2-PE2-p2p-L3  
!  
vlan 1010  
  name PE2-P-p2p  
!  
loopback-group 3  
!  
nvi 10  
  vxlan-id 10  
  evpn  
  rd 2:2  
  route-target both 1:1  
  route-target both 2:2  
  enable  
  evpn-exit  
!  
!  
Interface Ethernet1/0/1  
  speed-duplex force10g-full  
  description TO_6200  
  switchport mode trunk  
  port-group 1 mode active  
!  
Interface Ethernet1/0/2  
  speed-duplex force10g-full  
  description TO_6200  
  switchport mode trunk  
  port-group 1 mode active  
!  
Interface Ethernet1/0/3  
  speed-duplex force10g-full  
!  
Interface Ethernet1/0/4  
  speed-duplex force10g-full  
!  
Interface Ethernet1/0/5  
!  
Interface Ethernet1/0/6  
!  
Interface Ethernet1/0/7  
!  
Interface Ethernet1/0/8  
!  
Interface Ethernet1/0/9  
!  
Interface Ethernet1/0/10  
!  
Interface Ethernet1/0/11  
!  
Interface Ethernet1/0/12  
!  
Interface Ethernet1/0/13  
!  
Interface Ethernet1/0/14  
!  
Interface Ethernet1/0/15  
!  
Interface Ethernet1/0/16  
!  
Interface Ethernet1/0/17  
!  
Interface Ethernet1/0/18
```

```
!  
Interface Ethernet1/0/19  
!  
Interface Ethernet1/0/20  
!  
Interface Ethernet1/0/21  
!  
Interface Ethernet1/0/22  
!  
Interface Ethernet1/0/23  
!  
Interface Ethernet1/0/24  
!  
Interface Ethernet1/0/25  
!  
Interface Ethernet1/0/26  
!  
Interface Ethernet1/0/27  
!  
Interface Ethernet1/0/28  
!  
Interface Ethernet1/0/29  
!  
Interface Ethernet1/0/30  
!  
Interface Ethernet1/0/31  
!  
Interface Ethernet1/0/32  
!  
Interface Ethernet1/0/33  
!  
Interface Ethernet1/0/34  
!  
Interface Ethernet1/0/35  
!  
Interface Ethernet1/0/36  
!  
Interface Ethernet1/0/37  
!  
Interface Ethernet1/0/38  
!  
Interface Ethernet1/0/39  
!  
Interface Ethernet1/0/40  
!  
Interface Ethernet1/0/41  
!  
Interface Ethernet1/0/42  
!  
Interface Ethernet1/0/43  
!  
Interface Ethernet1/0/44  
!  
Interface Ethernet1/0/45  
!  
Interface Ethernet1/0/46  
!  
Interface Ethernet1/0/47  
!  
Interface Ethernet1/0/48  
!  
Interface Ethernet1/1/1  
description TO_7200-32Q  
switchport mode trunk  
switchport trunk allowed vlan 1010  
port-group 2 mode active  
!  
Interface Ethernet1/2/1  
description TO_7200-32Q  
switchport mode trunk  
switchport trunk allowed vlan 1010
```

```

port-group 2 mode active
!
Interface Ethernet1/3/1
!
Interface Ethernet1/4/1
!
Interface Ethernet1/5/1
  loopback-group 3
!
Interface Ethernet1/6/1
!
Interface Port-Channel1
  xconnect nvi 10 mode vlan svid 300
  xconnect nvi 10 mode vlan svid 301
  xconnect nvi 10 mode vlan svid 302
!
Interface Port-Channel2
!
vxlan proxy loopback-group 3
!
interface Vlan1
!
interface Vlan20
  ip address 192.168.210.2 255.255.255.252
!
interface Vlan1010
  ip address 172.21.2.1 255.255.255.252
!
interface Loopback1
  ip address 10.255.255.2 255.255.255.255
!
router ospf 1
  ospf router-id 10.255.255.2
  network 10.255.255.2 0.0.0.0 area 1
  network 172.21.2.0 0.0.0.3 area 0
  network 192.168.210.0 0.0.0.3 area 1
!
router bgp 100
  neighbor 10.255.255.3 remote-as 100
  neighbor 10.255.255.3 update-source 10.255.255.2
  address-family ipv4 evpn
  neighbor 10.255.255.3 activate
  exit-address-family
!
ip route 10.0.254.0/23 192.168.255.1
ip route 83.243.66.8/29 192.168.255.1
!
!
exec-timeout 30 0
no login
!
end

```

```

Leaf-2-7200-BOT#show ip bgp summary
BGP router identifier 10.255.255.2, local AS number 100
BGP table version is 1
1 BGP AS-PATH entries
0 BGP community entries

```

Neighbor	V	AS	MsgRcvd	MsgSent	TblVer	InQ	OutQ	Up/Down	State/PfxRcd
10.255.255.3	4	100	58	59	1	0	0	00:41:35	0

Total number of neighbors 1

```

Leaf-2-7200-BOT#show ip bgp evpn all
BGP local router ID is 10.255.255.2
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal, l - local
S Stale

```

Origin codes: i - IGP, e - EGP, ? - incomplete

network format description

RT-1:[RT][ESI][ETID]

RT-2:[RT][ETID][MAC][IPv4/v6]

RT-3:[RT][ETID][IPv4/v6]

RT-4:[RT][ESI][IPv4/v6]

RT-5:[RT][ETID][Prefix len][Prefix]

Route Distinguisher 1:1

Network	Next Hop	Metric	LocPrf	Weight	Path
*>i[2][300][18c3-f4b0-061f][[]]	10.255.255.3		100	0	?
*>i[3][300][10.255.255.3]	10.255.255.3		100	0	?
*>i[3][301][10.255.255.3]	10.255.255.3		100	0	?
*>i[3][302][10.255.255.3]	10.255.255.3		100	0	?

Route Distinguisher 2:2

Network	Next Hop	Metric	LocPrf	Weight	Path
*>l[2][300][18c3-f4b0-0101][[]]	10.255.255.2		100	32768	?
*>l[3][300][10.255.255.2]	10.255.255.2		100	32768	?
*>l[3][301][10.255.255.2]	10.255.255.2		100	32768	?
*>l[3][302][10.255.255.2]	10.255.255.2		100	32768	?

Leaf-2-7200-BOT#show ip bgp neighbors

BGP neighbor is 10.255.255.3, remote AS 100, local AS 100, internal link

BGP version 4, remote router ID 10.255.255.3

BGP state = Established, up for 00:41:53

Last read 00:41:53, hold time is 240, keepalive interval is 60 seconds

Neighbor capabilities:

Route refresh: advertised and received (old and new)

Four bytes AS: advertised and received

Address family IPv4 Unicast: advertised and received

Address family L2VPN EVPN: advertised and received

Received 59 messages, 0 notifications, 0 in queue

Sent 60 messages, 0 notifications, 0 in queue

Route refresh request: received 0, sent 0

Minimum time between advertisement runs is 5 seconds

Update source is 10.255.255.2

For address family: IPv4 Unicast

BGP table version 1, neighbor version 1

Index 0, Offset 0, Mask 0x1

Community attribute sent to this neighbor (both)

0 accepted prefixes

0 announced prefixes

For address family: L2VPN EVPN

BGP table version 69, neighbor version 69

Index 0, Offset 0, Mask 0x1

Community attribute sent to this neighbor (both)

4 accepted prefixes

4 announced prefixes

Connections established 1; dropped 0

Local host: 10.255.255.2, Local port: 33139

```
Foreign host: 10.255.255.3, Foreign port: 179
NextHop: 10.255.255.2
NextHop global: fe80::1ac3:f4ff:feb0:303
NextHop local: ::
BGP connection: non shared network
```

```
Leaf-2-7200-BOT# show vxlan mac-address-table
```

```
Read mac address table....
```

Nvi-id	Mac Address	Type	Creator	Ports
10	18-c3-f4-b0-01-01	DYNAMIC	Hardware	Port-Channell
10	18-c3-f4-b0-06-1f	DYNAMIC	Hardware	Nvel

```
Leaf-2-7200-BOT#
```

```
Leaf-2-7200-BOT#show nvi nve tunnel
```

```
NVI 10 vxlan-id 10
```

Nve name	state	source	destination
Nvel	UP	10.255.255.2	10.255.255.3

```
Leaf-2-7200-BOT#show evpn nve all
```

VXLAN ID	Address	LR
10	10.255.255.2	LOCAL
10	10.255.255.3	REMOTE

```
SPINE-7200-32Q#show run
```

```
!!
switch convert mode stand-alone
!!
!
service password-encryption
!
hostname SPINE-7200-32Q
sysLocation 123007, Moscow, 1-st Magistralnaya street, 13b7
sysContact 8(800)302-42-57
!
authentication logging enable
!
username admin privilege 15 password 7 88ad795fe330411b653d6f18e8e4f4e5
username zakko privilege 15 password 7 cc5f68197114476743ac55440382994e
username test password 7 098f6bcd4621d373cade4e832627b4f6
usernamealmazova privilege 15 password 7 d847387773bad3c36c767e1c2ec20489
!
authentication line console login local
!
!
!
!
!
ssh-server enable
ssh-server timeout 600
!
info-center logfile 4 config count 40960 flash logfile.log
info-center logfile 4 output-enable
info-center logfile 4 match level warnings
!
!
!
lldp enable
!
!
mpls enable
!
```

```
Interface Ethernet0
 ip address 192.168.255.17 255.255.255.0
 !
 !
 !
 !
port-group 1
 !
port-group 2
 !
 !
vlan 1:300
 !
vlan 1000
 name PE1-P-p2p
 !
vlan 1010
 name PE2-P-p2p
 !
 !
Interface Ethernet1/1/1
 description TO_7200_TOP
 switchport mode trunk
 switchport trunk allowed vlan 1010
 port-group 1 mode active
 !
Interface Ethernet1/2/1
 description TO_7200_TOP
 switchport mode trunk
 switchport trunk allowed vlan 1010
 port-group 1 mode active
 !
Interface Ethernet1/3/1
 !
Interface Ethernet1/4/1
 !
Interface Ethernet1/5/1
 !
Interface Ethernet1/6/1
 !
Interface Ethernet1/7/1
 !
Interface Ethernet1/8/1
 !
Interface Ethernet1/9/1
 !
Interface Ethernet1/10/1
 !
Interface Ethernet1/11/1
 !
Interface Ethernet1/12/1
 !
Interface Ethernet1/13/1
 !
Interface Ethernet1/14/1
 !
Interface Ethernet1/15/1
 !
Interface Ethernet1/16/1
 !
Interface Ethernet1/17/1
 !
Interface Ethernet1/18/1
 !
Interface Ethernet1/19/1
 !
Interface Ethernet1/20/1
 !
Interface Ethernet1/21/1
 !
Interface Ethernet1/22/1
```

```
!  
Interface Ethernet1/23/1  
!  
Interface Ethernet1/24/1  
!  
Interface Ethernet1/25/1  
!  
Interface Ethernet1/26/1  
!  
Interface Ethernet1/27/1  
!  
Interface Ethernet1/28/1  
!  
Interface Ethernet1/29/1  
!  
Interface Ethernet1/30/1  
!  
Interface Ethernet1/31/1  
description TO_7200_BOT  
switchport mode trunk  
switchport trunk allowed vlan 1000  
port-group 2 mode active  
!  
Interface Ethernet1/32/1  
description TO_7200_BOT  
switchport mode trunk  
switchport trunk allowed vlan 1000  
port-group 2 mode active  
!  
Interface Port-Channel1  
!  
Interface Port-Channel2  
!  
interface Vlan1000  
label-switching  
ldp enable  
ip address 172.21.1.2 255.255.255.252  
!  
interface Vlan1010  
label-switching  
ldp enable  
ip address 172.21.2.2 255.255.255.252  
!  
interface Loopback1  
ip address 10.255.255.1 255.255.255.255  
!  
router ospf 1  
ospf router-id 10.255.255.1  
network 10.255.255.1 0.0.0.0 area 0  
network 172.21.1.0 0.0.0.3 area 0  
network 172.21.2.0 0.0.0.3 area 0  
!  
router ldp  
router-id 10.255.255.1  
targeted-peer 10.255.255.2  
targeted-peer 10.255.255.3  
!  
ip route 10.0.254.0/23 192.168.255.1  
ip route 83.243.66.8/29 192.168.255.1  
!  
!  
no login  
!  
end
```

```
!!
switch convert mode stand-alone
!!
!
service password-encryption
!
hostname CE2-6200
sysLocation 123007, Moscow, 1-st Magistralnaya street, 13b7
sysContact 8(800)302-42-57
!
multi config access
authentication logging enable
!
!
username admin privilege 15 password 7 88ad795fe330411b653d6f18e8e4f4e5
username zakko privilege 15 password 7 cc5f68197114476743ac55440382994e
username guest privilege 15 password 7 65089d7f8ab310986db84b503c63fb39
username ekoren privilege 15 password 7 d061d2cc6f7b691bb163f89d180e32aa
usernamealmazova privilege 15 password 7 d847387773bad3c36c767e1c2ec20489
!
authentication line console login local
!
!
!
!
logging executed-commands enable
!
ssh-server enable
ssh-server timeout 600
!
info-center logfile 4 config count 40960 flash logfile.log
info-center logfile 4 output-enable
info-center logfile 4 match level warnings
info-center logfile 3 record-cmd
info-center logfile 4 record-cmd
!
!
!
lldp enable
spanning-tree mode rstp
spanning-tree
!
!
!
Interface Ethernet0
ip address 192.168.255.13 255.255.255.0
!
!
!
!
port-group 1
!
vlan 1;301-302
!
vlan 20
name CE2-PE2-p2p-L3
!
vlan 300
name L2-VXLAN
!
vlan 500
name L3-OSPF
!
!
Interface Ethernet1/0/1
speed-duplex force10g-full
description TO_7200_BOT
switchport mode trunk
port-group 1 mode active
!
```

```
Interface Ethernet1/0/2
 speed-duplex force10g-full
 description TO_7200_BOT
 switchport mode trunk
 port-group 1 mode active
!
Interface Ethernet1/0/3
!
Interface Ethernet1/0/4
!
Interface Ethernet1/0/5
!
Interface Ethernet1/0/6
!
Interface Ethernet1/0/7
!
Interface Ethernet1/0/8
!
Interface Ethernet1/0/9
 shutdown
 no spanning-tree
 switchport access vlan 500
!
Interface Ethernet1/0/10
!
Interface Ethernet1/0/11
!
Interface Ethernet1/0/12
!
Interface Ethernet1/0/13
!
Interface Ethernet1/0/14
!
Interface Ethernet1/0/15
!
Interface Ethernet1/0/16
!
Interface Ethernet1/0/17
!
Interface Ethernet1/0/18
!
Interface Ethernet1/0/19
!
Interface Ethernet1/0/20
!
Interface Ethernet1/0/21
!
Interface Ethernet1/0/22
!
Interface Ethernet1/0/23
!
Interface Ethernet1/0/24
!
Interface Ethernet1/0/25
!
Interface Ethernet1/0/26
!
Interface Ethernet1/0/27
!
Interface Ethernet1/0/28
!
Interface Ethernet1/0/29
!
Interface Ethernet1/0/30
!
Interface Ethernet1/0/31
!
Interface Ethernet1/0/32
!
Interface Ethernet1/0/33
!
```

```
Interface Ethernet1/0/34
!
Interface Ethernet1/0/35
!
Interface Ethernet1/0/36
!
Interface Ethernet1/0/37
!
Interface Ethernet1/0/38
!
Interface Ethernet1/0/39
!
Interface Ethernet1/0/40
!
Interface Ethernet1/0/41
!
Interface Ethernet1/0/42
!
Interface Ethernet1/0/43
!
Interface Ethernet1/0/44
!
Interface Ethernet1/0/45
!
Interface Ethernet1/0/46
!
Interface Ethernet1/0/47
!
Interface Ethernet1/0/48
!
Interface Ethernet1/1/1
!
Interface Ethernet1/2/1
!
Interface Ethernet1/3/1
!
Interface Ethernet1/4/1
!
Interface Ethernet1/5/1
!
Interface Ethernet1/6/1
!
Interface Port-Channel1
!
interface Vlan1
!
interface Vlan20
 ip address 192.168.210.1 255.255.255.252
!
interface Vlan300
 ip address 1.1.1.2 255.255.255.0
!
interface Vlan301
 ip address 2.2.2.2 255.255.255.0
!
interface Vlan302
 ip address 3.3.3.2 255.255.255.0
!
interface Vlan500
 ip address 10.50.0.1 255.255.255.0
!
interface Loopback1
 ip address 10.255.254.2 255.255.255.255
!
router ospf 1
 ospf router-id 10.255.254.2
 network 10.50.0.0 0.0.0.255 area 1
 network 10.255.254.2 0.0.0.0 area 1
 network 192.168.210.0 0.0.0.3 area 1
!
ip route 10.0.254.0/23 192.168.255.1
```

```
ip route 83.243.66.8/29 192.168.255.1
!
!
exec-timeout 30 0
no login
!
end
```

CE1(2100)#show run

```
!!
switch convert mode stand-alone
!!
!
service password-encryption
!
hostname CE1(2100)
sysLocation 123007, Moscow, 1-st Magistralnaya street, 13b7
sysContact 8(800)302-42-57
!
multi config access
authentication logging enable
!
username admin privilege 15 password 7 88ad795fe330411b653d6f18e8e4f4e5
usernamealmazova privilege 15 password 7 d847387773bad3c36c767e1c2ec20489
!
authentication line console login local
!
!
!
!
!
ssh-server enable
ssh-server timeout 600
!
info-center logfile 4 config count 40960 nandflash logfile.log
info-center logfile 4 output-enable
info-center logfile 4 match level warnings
!
!
!
!
lldp enable
!
spanning-tree mode rstp
spanning-tree
!
!
!
Interface Ethernet0
ip address 192.168.255.27 255.255.255.0
!
!
!
!
!
port-group 2
!
vlan 1;301-302
!
vlan 10
name CE-PE-p2p-L3
!
vlan 300
name L2-VXLAN
!
vlan 400
name L3-OSPF
```

```
!  
Interface Ethernet1/0/1  
!  
Interface Ethernet1/0/2  
!  
Interface Ethernet1/0/3  
!  
Interface Ethernet1/0/4  
!  
Interface Ethernet1/0/5  
!  
Interface Ethernet1/0/6  
!  
Interface Ethernet1/0/7  
!  
Interface Ethernet1/0/8  
!  
Interface Ethernet1/0/9  
!  
Interface Ethernet1/0/10  
!  
Interface Ethernet1/0/11  
!  
Interface Ethernet1/0/12  
!  
Interface Ethernet1/0/13  
!  
Interface Ethernet1/0/14  
!  
Interface Ethernet1/0/15  
!  
Interface Ethernet1/0/16  
!  
Interface Ethernet1/0/17  
!  
Interface Ethernet1/0/18  
!  
Interface Ethernet1/0/19  
!  
Interface Ethernet1/0/20  
!  
Interface Ethernet1/0/21  
!  
Interface Ethernet1/0/22  
!  
Interface Ethernet1/0/23  
!  
Interface Ethernet1/0/24  
!  
Interface Ethernet1/0/25  
!  
Interface Ethernet1/0/26  
!  
Interface Ethernet1/0/27  
!  
Interface Ethernet1/0/28  
!  
Interface Ethernet1/0/29  
!  
Interface Ethernet1/0/30  
!  
Interface Ethernet1/0/31  
!  
Interface Ethernet1/0/32  
!  
Interface Ethernet1/0/33  
!  
Interface Ethernet1/0/34  
!  
Interface Ethernet1/0/35  
!
```

```
Interface Ethernet1/0/36
!
Interface Ethernet1/0/37
!
Interface Ethernet1/0/38
!
Interface Ethernet1/0/39
!
Interface Ethernet1/0/40
!
Interface Ethernet1/0/41
!
Interface Ethernet1/0/42
!
Interface Ethernet1/0/43
!
Interface Ethernet1/0/44
!
Interface Ethernet1/0/45
!
Interface Ethernet1/0/46
!
Interface Ethernet1/0/47
!
Interface Ethernet1/0/48
!
Interface Ethernet1/0/49
  no spanning-tree
  switchport access vlan 400
!
Interface Ethernet1/0/50
!
Interface Ethernet1/0/51
  speed-duplex force10g-full
  description TO_7200_TOP
  switchport mode trunk
  port-group 2 mode active
!
Interface Ethernet1/0/52
  speed-duplex force10g-full
  description TO_7200_TOP
  switchport mode trunk
  port-group 2 mode active
!
Interface Port-Channel2
  description TO_7200_TOP
  switchport mode trunk
!
interface Vlan10
  ip address 192.168.200.1 255.255.255.252
!
interface Vlan300
  ip address 1.1.1.1 255.255.255.0
!
interface Vlan301
  ip address 2.2.2.1 255.255.255.0
!
interface Vlan302
  ip address 3.3.3.1 255.255.255.0
!
interface Vlan400
  ip address 10.40.0.1 255.255.255.0
!
interface Loopback1
  ip address 10.255.254.1 255.255.255.255
!
router ospf 1
  ospf router-id 10.255.254.1
  network 10.40.0.0 0.0.0.255 area 1
  network 10.255.254.1 0.0.0.0 area 1
  network 192.168.200.0 0.0.0.3 area 1
```

```
!  
ip route 10.0.254.0/23 192.168.255.1  
ip route 83.243.66.8/29 192.168.255.1  
!  
!  
no login  
!  
captive-portal  
!  
end
```