

**Multilayer Switch config:**

Building configuration...  
Current configuration : 3189 bytes  
!  
version 16.3.2  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
!  
hostname Dist-SW1  
!  
!  
no profinet  
enable secret 5 \$1\$mERr\$kym/hWmWrJHQirPTzUhSK0  
!  
!  
!  
!  
!  
!  
!  
no ip cef  
ip routing  
!  
no ipv6 cef  
!  
!  
!  
!  
!  
!  
lldp run  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
spanning-tree mode pvst  
spanning-tree vlan 10,20,30 priority 4096  
!

```
!
!
!
!
!
interface Port-channel1
switchport trunk allowed vlan 10,20,30
switchport mode trunk
!
interface Port-channel2
switchport trunk allowed vlan 10,20,30
switchport mode trunk
!
interface Port-channel3
switchport trunk allowed vlan 10,20,30
switchport mode trunk
!
interface Port-channel4
switchport trunk allowed vlan 10,20,30
switchport mode trunk
!
interface GigabitEthernet1/0/1
switchport trunk allowed vlan 10,20,30
switchport mode trunk
channel-group 1 mode active
!
interface GigabitEthernet1/0/2
switchport trunk allowed vlan 10,20,30
switchport mode trunk
channel-group 1 mode active
!
interface GigabitEthernet1/0/3
switchport trunk allowed vlan 10,20,30
switchport mode trunk
channel-group 2 mode active
!
interface GigabitEthernet1/0/4
switchport trunk allowed vlan 10,20,30
switchport mode trunk
channel-group 2 mode active
!
interface GigabitEthernet1/0/5
switchport trunk allowed vlan 10,20,30
switchport mode trunk
```

```
channel-group 3 mode active
!
interface GigabitEthernet1/0/6
switchport trunk allowed vlan 10,20,30
switchport mode trunk
channel-group 3 mode active
!
interface GigabitEthernet1/0/7
!
interface GigabitEthernet1/0/8
!
interface GigabitEthernet1/0/9
!
interface GigabitEthernet1/0/10
!
interface GigabitEthernet1/0/11
!
interface GigabitEthernet1/0/12
!
interface GigabitEthernet1/0/13
!
interface GigabitEthernet1/0/14
!
interface GigabitEthernet1/0/15
!
interface GigabitEthernet1/0/16
!
interface GigabitEthernet1/0/17
!
interface GigabitEthernet1/0/18
!
interface GigabitEthernet1/0/19
!
interface GigabitEthernet1/0/20
!
interface GigabitEthernet1/0/21
!
interface GigabitEthernet1/0/22
!
interface GigabitEthernet1/0/23
switchport trunk allowed vlan 10,20,30
switchport mode trunk
channel-group 4 mode active
!
```

```
interface GigabitEthernet1/0/24
switchport trunk allowed vlan 10,20,30
switchport mode trunk
channel-group 4 mode active
!
interface GigabitEthernet1/1/1
no switchport
ip address 10.0.0.1 255.255.255.252
!
interface GigabitEthernet1/1/2
!
interface GigabitEthernet1/1/3
!
interface GigabitEthernet1/1/4
!
interface Vlan1
no ip address
shutdown
!
interface Vlan10
mac-address 0010.113c.8701
ip address 192.168.10.3 255.255.255.0
standby 10 ip 192.168.10.1
!
interface Vlan20
mac-address 0010.113c.8702
ip address 192.168.20.3 255.255.255.0
ip helper-address 192.168.10.5
standby 20 ip 192.168.20.1
!
interface Vlan30
mac-address 0010.113c.8703
ip address 192.168.30.3 255.255.255.0
ip helper-address 192.168.10.5
standby 30 ip 192.168.30.1
!
router ospf 10
router-id 2.2.2.2
log-adjacency-changes
network 10.0.0.0 0.0.0.3 area 1
network 192.168.0.0 0.0.255.255 area 1
!
ip classless
ip route 0.0.0.0 0.0.0.0 10.0.0.2
```

```
!  
ip flow-export version 9  
!  
!  
!  
!  
!  
!  
!  
!  
line con 0  
!  
line aux 0  
!  
line vty 0 4  
login  
!  
!  
!  
!  
end
```