```
<u>මෙමෙමමමමමමමමමමමම</u>
qos-mpls lab
1. OSPF
2. mpls
3. xconnect
=====P=====
 --MAIN--
mpls ip
mpls label protocol ldp
mpls traffic-eng tunnels
mpls ldp router-id loX
  -INTERFACES-
mpls ip
mpls traffic-eng tunnels
====PE====
  --MAIN-
mpls ip
mpls label protocol ldp
mpls traffic-eng tunnels
mpls ldp router-id loX
  -- INTERFACES-
mpls ip
mpls traffic-eng tunnels
   - PW -
pseudowire-class PW172
 encapsulation mpls
 interworking ethernet
  — PE1 IF towards CE1 -
 int f2/0
 xconnect <loopback-reachable-PE2//86.2.0.2> <VC-ID//16> encapsulation mpls
 xconnect <loopback-reachable-PE2//86.2.0.2> <VC-ID//16> pw-class <PW-CLASS>
   - PE2 IF towards CE2 ---
 xconnect <loopback-reachable-PE1//86.1.0.2> <VC-ID//16> encapsulation mpls
 xconnect <loopback-reachable-PE1//86.1.0.2> <VC-ID//16> pw-class <PW-CLASS>
   --CE1-
 f2/0 172.16.0.1/24
   --CF2--
 f2/0 172.16.0.2/24
 ====VERIFICATION====
 pe-1#sh xconnect all
            XC ST=Xconnect State S1=Segment1 State S2=Segment2 State
 Legend:
                                   AD=Admin Down
                                                      IA=Inactive
               DN=Down
                                   NH=No Hardware
   SB=Standby RV=Recovering
                                                                                 S2
 XC ST Segment 1
                                           S1 Segment 2
                                                                                 UP
        ac Fa2/0(Ethernet)
                                           UP mpls 86.2.0.2:16
 UP
 pe-1#
 pe-2#sh xconnect all
            XC ST=Xconnect State S1=Segment1 State S2=Segment2 State
 Legend:
   UP=Up
               DN=Down
                                   AD=Admin Down
                                                      IA=Inactive
    SB=Standby RV=Recovering
                                   NH=No Hardware
                                                                                 52
  XC ST Segment 1
                                           S1 Segment 2
                                                                                 UP
  UP
             Fa2/0(Ethernet)
                                           UP mpls 86.1.0.2:16
         ac
  ce-1#sh arp
  Protocol Address
                             Age (min)
                                        Hardware Addr
                                                        Type
                                                                Interface
  Internet 172.16.0.1
                                        ca05.0471.0038 ARPA
                                                                FastEthernet2/0
  Internet 172.16.0.2
                                        ca06.0473.0038 ARPA
                                                                FastEthernet2/0
                                   10
  ce-1#ping 172.16.0.2
  Type escape sequence to abort.
  Sending 5, 100-byte ICMP Echos to 172.16.0.2, timeout is 2 seconds:
  Success rate is 100 percent (5/5), round-trip min/avg/max = 80/81/84 ms
  ce-2#sh arp
  Protocol Address
                             Age (min)
                                        Hardware Addr
                                                         Type
                                                                Interface
  Internet 172.16.0.1
Internet 172.16.0.2
                                                                FastEthernet2/0
                                   47
                                         ca05.0471.0038
                                                         ARPA
                                         ca06.0473.0038
                                                        ARPA
                                                                FastEthernet2/0
  ce-2#ping 172.16.0.1
  Type escape sequence to abort.
  Sending 5, 100-byte ICMP Echos to 172.16.0.1, timeout is 2 seconds:
  11111
```