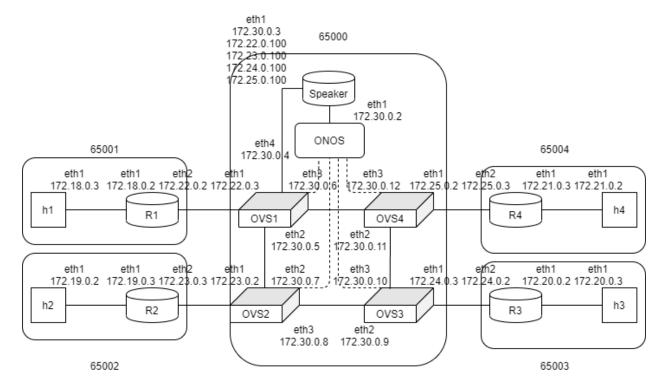
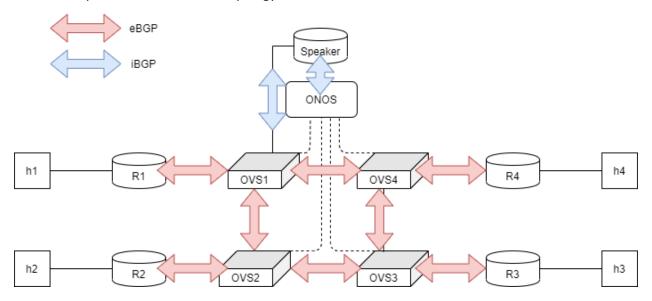
SDN-NFV

0516045 張凱翔

1. Show topology with IP addresses, interfaces and ASNs



2. Mark the path eBGP and iBGP in topology



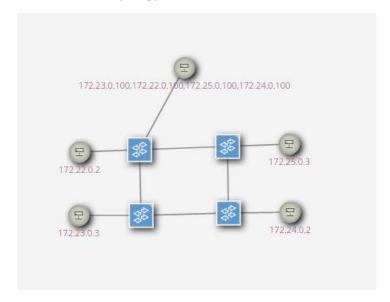
3. Capture BGP packets (send/receive) in speaker path

No.	Time	Source	Destination	Protocol	Length Info
e :	0.000000000	172.25.0.100	172.25.0.3	BGP	87 KEEPALIVE Message
17	0.000110288	172.23.0.100	172.23.0.3	BGP	87 KEEPALIVE Message
23	0.000426457	172.25.0.3	172.25.0.100	BGP	87 KEEPALIVE Message
39	0.001291768	172.23.0.3	172.23.0.100	BGP	87 KEEPALIVE Message
8:	0.944778351	172.24.0.100	172.24.0.2	BGP	87 KEEPALIVE Message
89	0.945212120	172.22.0.100	172.22.0.2	BGP	87 KEEPALIVE Message
93	0.948160221	172.24.0.2	172.24.0.100	BGP	87 KEEPALIVE Message
109	0.950043771	172.22.0.2	172.22.0.100	BGP	87 KEEPALIVE Message
324	3.000850412	172.25.0.100	172.25.0.3	BGP	87 KEEPALIVE Message
334	3.000957389	172.23.0.100	172.23.0.3	BGP	87 KEEPALIVE Message
340	3.001088648	172.25.0.3	172.25.0.100	BGP	87 KEEPALIVE Message

4. Telnet bgpd daemons of Speaker and show summary screenshots

```
Speakerbgp> show ip bgp summary
BGP router identifier 172.17.0.15, local AS number 65000
RIB entries 7, using 784 bytes of memory
Peers 5, using 22 KiB of memory
                                AS MsgRcvd MsgSent
                                                                   InQ OutQ Up/Down
Neighbor
                                                         TblVer
                                                                                         State/PfxRcd
172.17.0.2
                   4 65000
                                  656
                                            684
                                                                     0 00:33:54
                                                         0
                                                                                           0
                                                               0
172.22.0.2
                   4 65001
                                  679
                                            683
                                                         0
                                                               0
                                                                     0 00:33:50
                                                                                           1
172.23.0.3
                   4 65002
                                  679
                                            683
                                                         0
                                                               0
                                                                     0 00:33:51
                                                                                           1
172.24.0.2
                   4 65003
                                  679
                                            683
                                                         0
                                                               0
                                                                     0 00:33:50
                                                                                           1
172.25.0.3
                   4 65004
                                  680
                                            684
                                                         0
                                                                     0 00:33:54
                                                                                           1
Total number of neighbors 5
```

5. Screenshots topology and intents on the ONOS Web GUI



52 : org onspreject sidnip 172 190.016 MultPrintfoSinglePotenteret 180 Installed 52 : org onspreject sidnip 172 10.016 MultPrintfoSinglePotenteret 180 Installed 52 : org onspreject sidnip 172 21.0017 MultPrintfoSinglePotenteret 180 Installed 52 : org onspreject sidnip 172 22.010172 22.01 245 PointfoPortineret 1000 Installed 52 : org onspreject sidnip 172 22.010172 22.01 245 PointfoPortineret 1000 Installed 52 : org onspreject sidnip 172 22.010172 22.01 045 PointfoPortineret 1000 Installed 52 : org onspreject sidnip 172 22.01 172 22.01 005 cr PointfoPortineret 1000 Installed 52 : org onspreject sidnip 172 22.01 172 22.01 005 cr PointfoPortineret 1000 Installed 52 : org onspreject sidnip 172 23.01 0172 23.03 stc PointfoPortineret 1000 Installed 52 : org onspreject sidnip 172 23.01 0172 23.03 stc PointfoPortineret 1000 Installed 52 : org onspreject sidnip 172 23.01 0172 23.03 stc PointfoPortineret 1000 In	ntents (28 total)				O + ≥ > ■ ₩ W	
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6. Write down what you have learned or solved

因為有做過 project5 的經驗,所以這次在操作上並沒有遇到相當大的挑戰。在考期末考的時候對 SDN-IP 其實不太熟悉,關於 eBGP 和 iBGP 的路徑也是不太懂,但經過這次作業之後又讓我對 SDN-IP 有更進一步的認識。