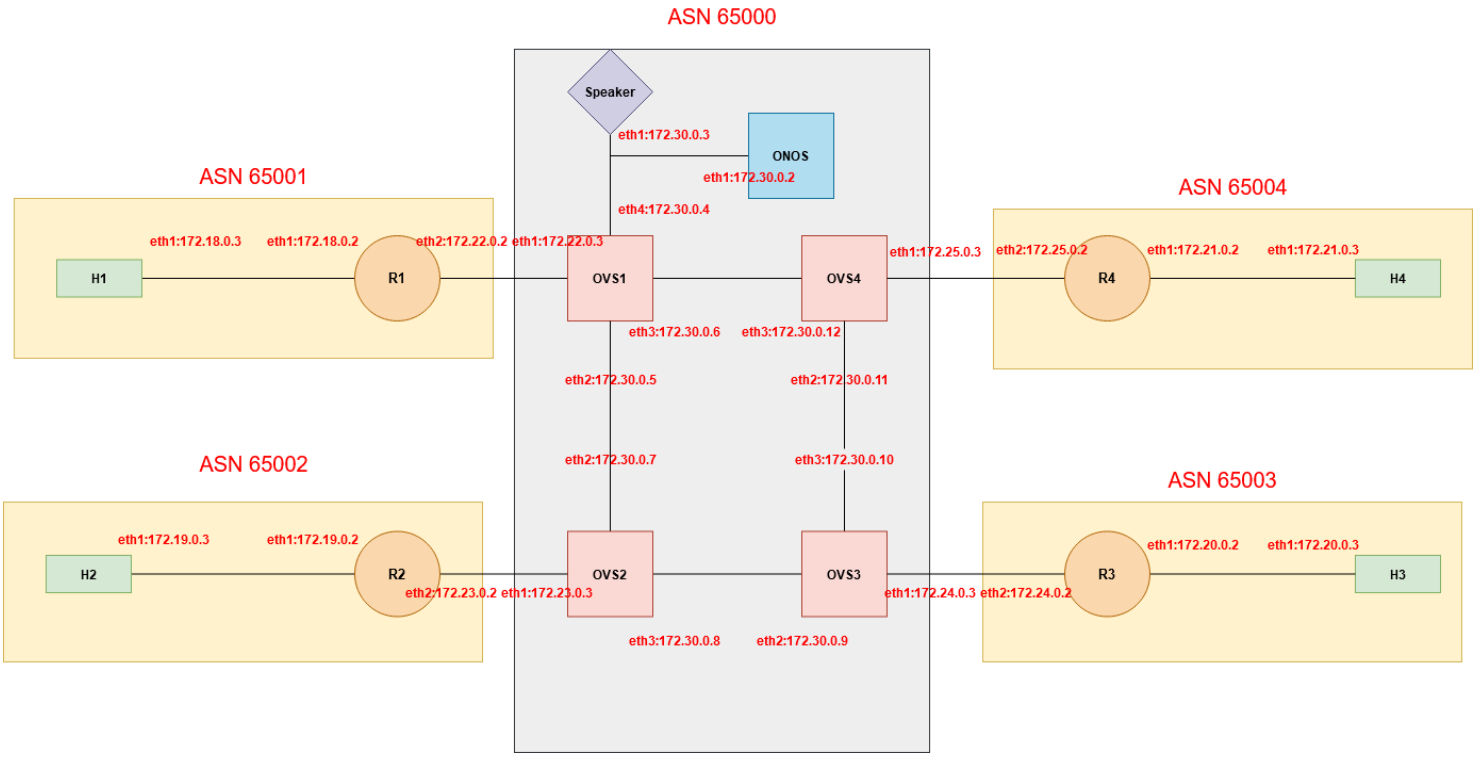
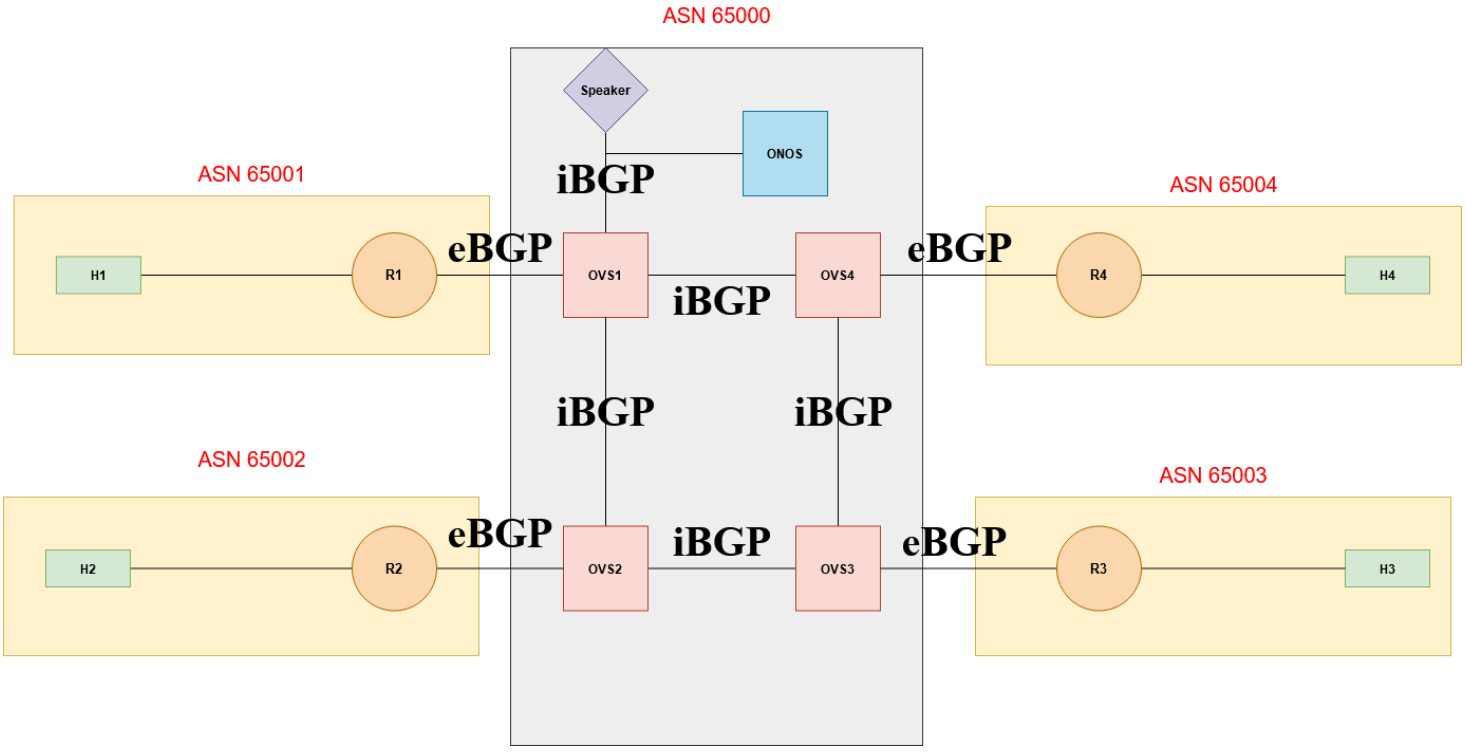
# Final Project

## 1. Topology

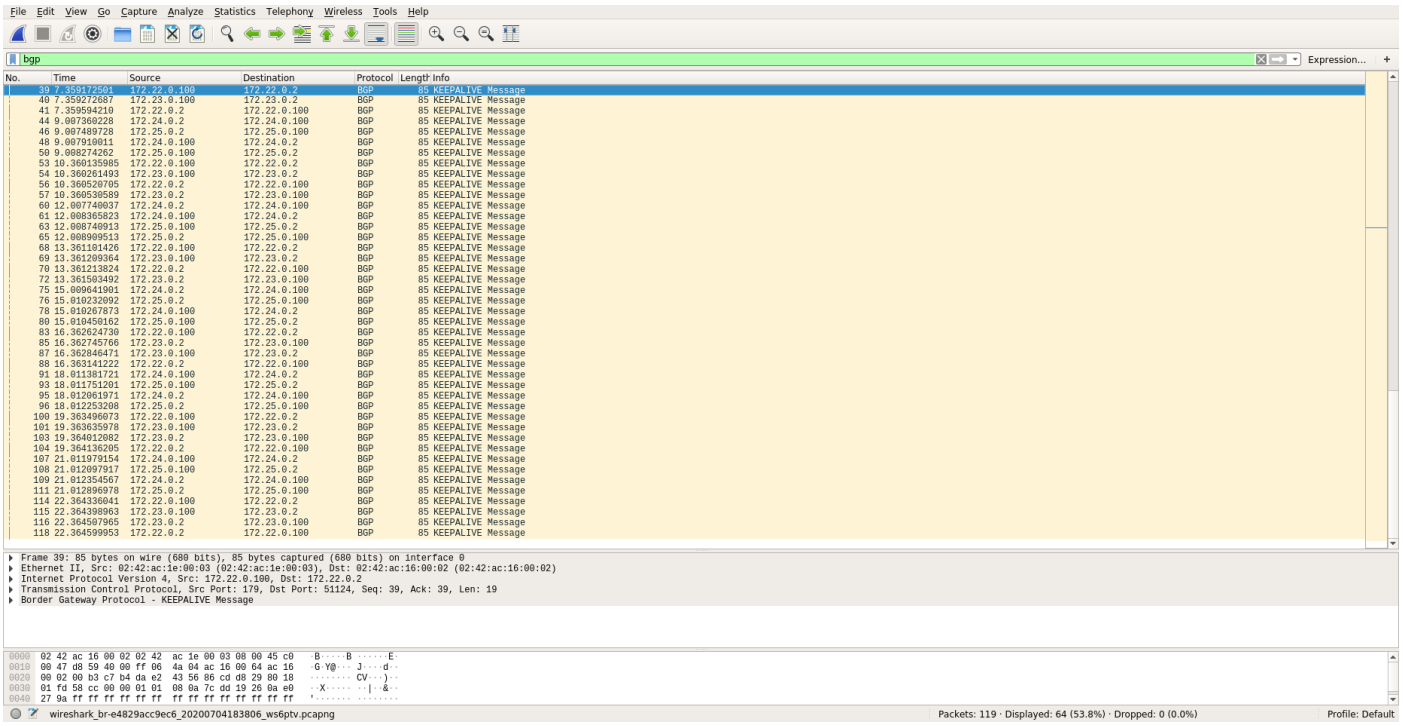



## 2. eBGP AND iBGP

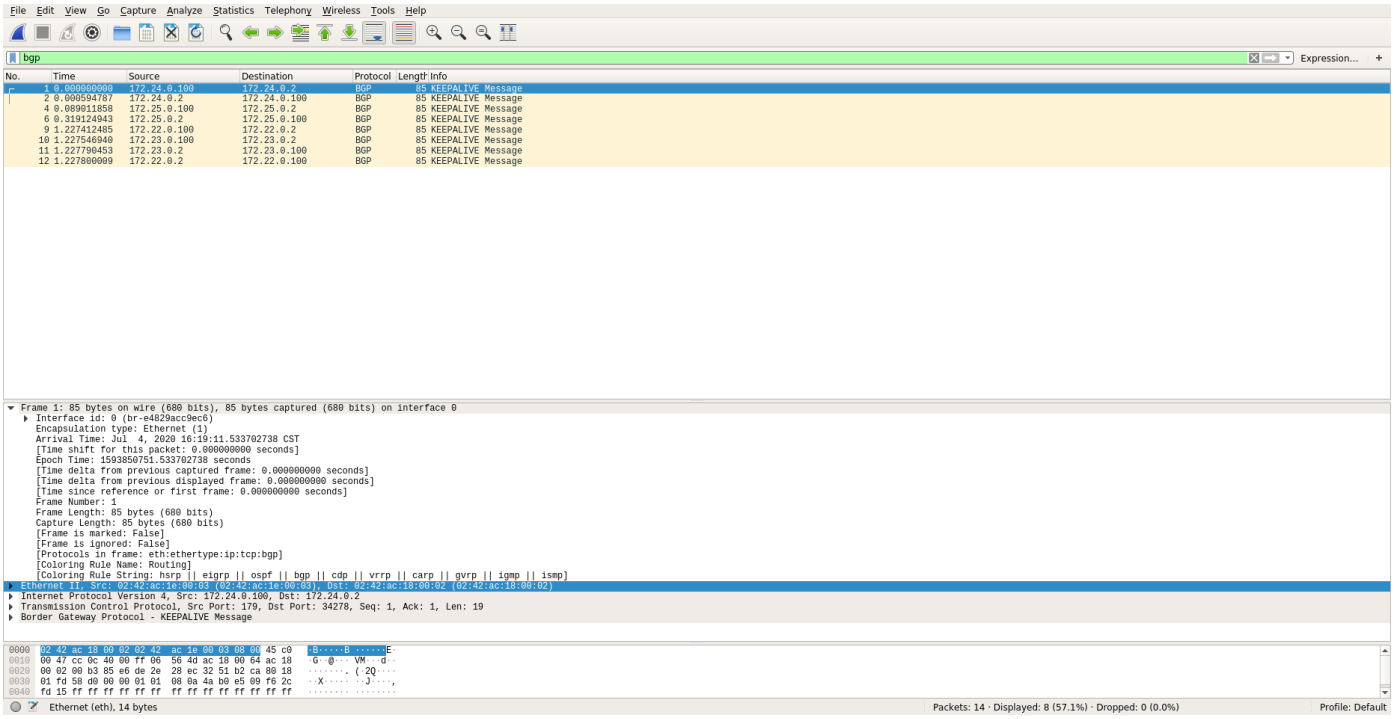


3. Capture BGP packets in speaker path

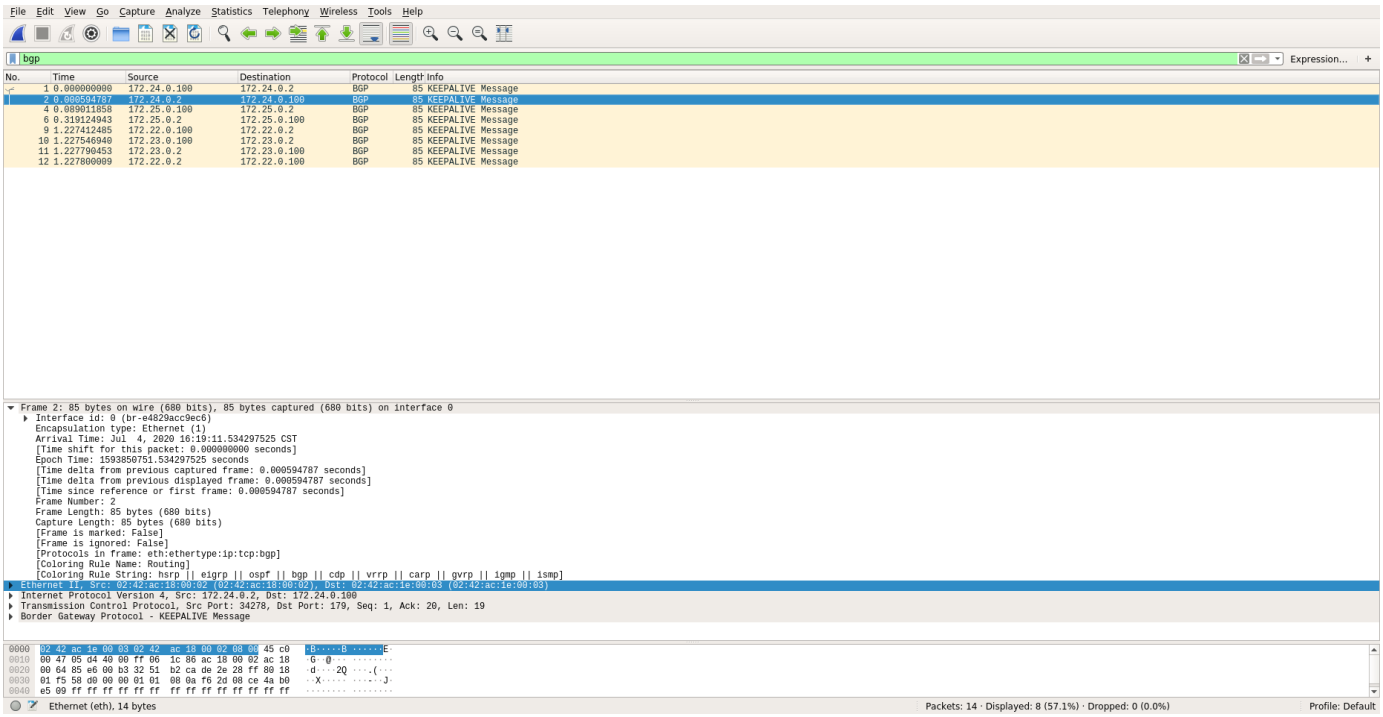
可從下圖看到有處理 172.22.x.x~172.25.x.x 的 BGP，故下圖是在 Speaker path 中擷取的 BGP packets



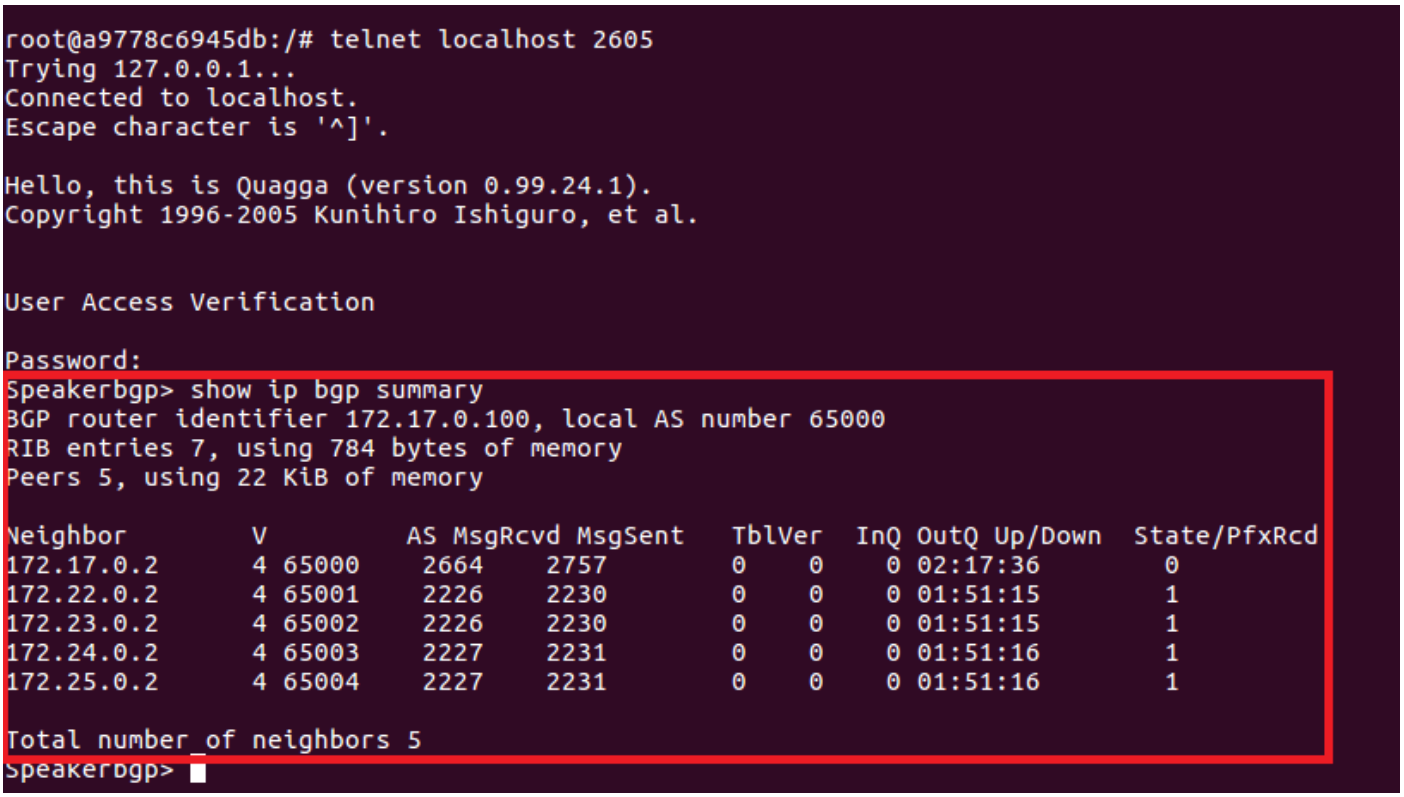

➢ Send



➢ Receive

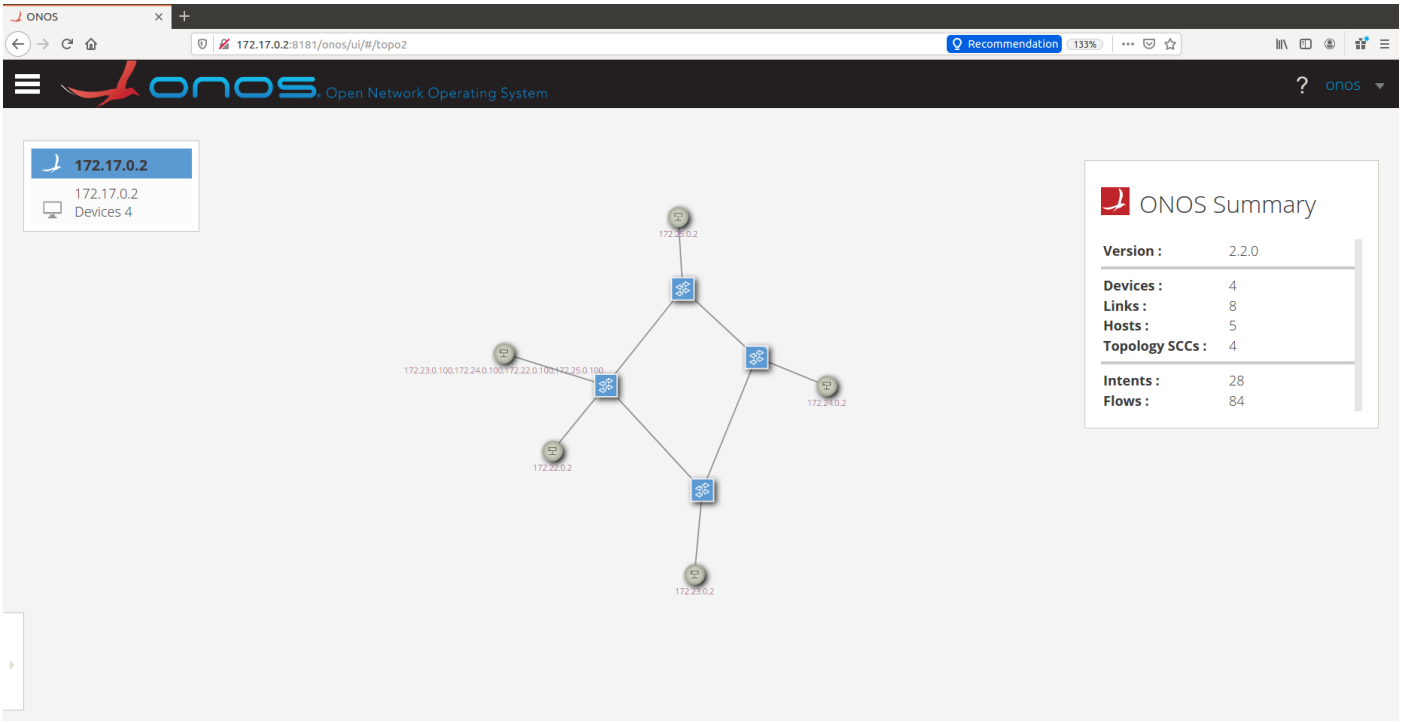



4. Telnet bgpd daemons of Speaker

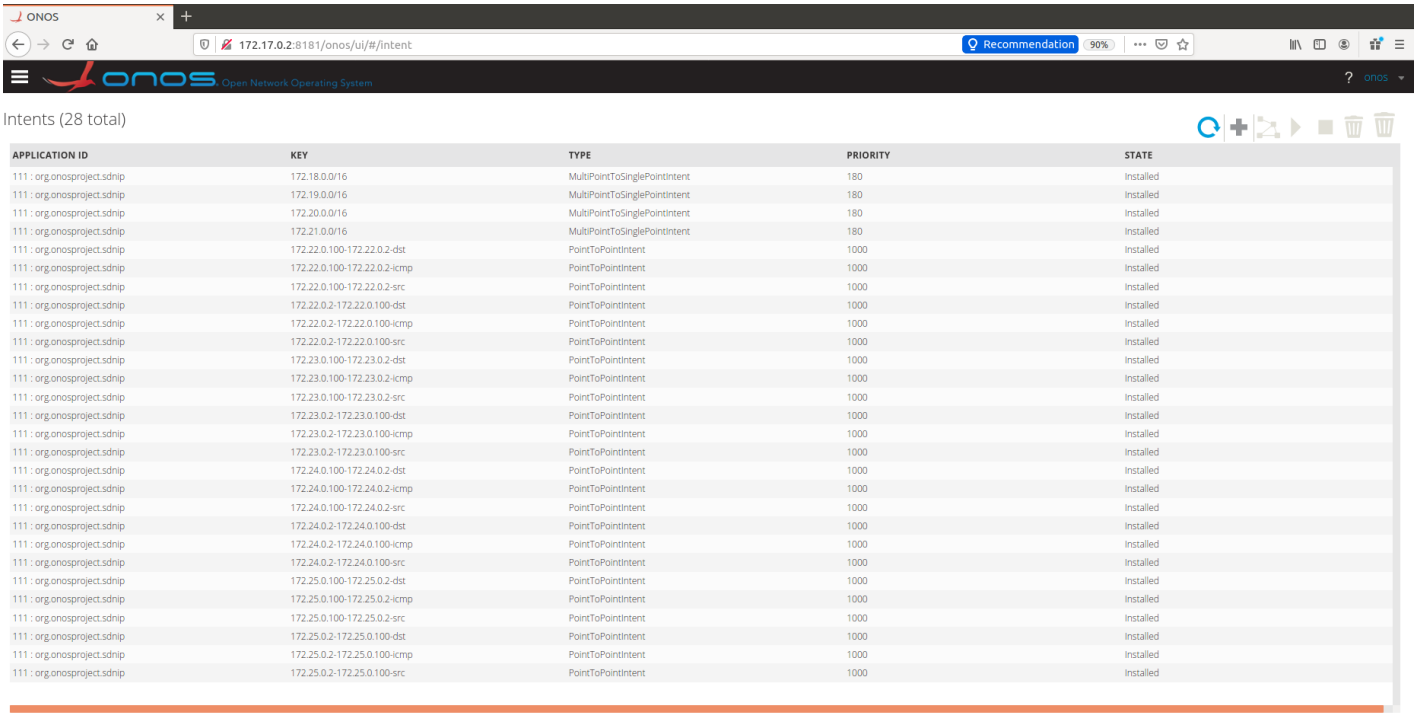


5. Topology and intents

➢ topology




➢ intents




| APPLICATION ID | KEY | TYPE | PRIORITY | STATE |
|---|---|---|---|---|
| 111 : org.onosproject.sdnip | 172.18.0.0/16 | MultiPointToSinglePointIntent | 180 | Installed |
| 111 : org.onosproject.sdnip | 172.19.0.0/16 | MultiPointToSinglePointIntent | 180 | Installed |
| 111 : org.onosproject.sdnip | 172.20.0.0/16 | MultiPointToSinglePointIntent | 180 | Installed |
| 111 : org.onosproject.sdnip | 172.21.0.0/16 | MultiPointToSinglePointIntent | 180 | Installed |
| 111 : org.onosproject.sdnip | 172.22.0.100-172.22.0.2-dst | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.22.0.100-172.22.0.2-icmp | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.22.0.100-172.22.0.2-src | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.22.0.2-172.22.0.100-dst | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.22.0.2-172.22.0.100-icmp | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.22.0.2-172.22.0.100-src | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.23.0.100-172.23.0.2-dst | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.23.0.100-172.23.0.2-icmp | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.23.0.100-172.23.0.2-src | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.23.0.2-172.23.0.100-dst | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.23.0.2-172.23.0.100-icmp | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.23.0.2-172.23.0.100-src | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.24.0.100-172.24.0.2-dst | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.24.0.100-172.24.0.2-icmp | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.24.0.100-172.24.0.2-src | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.24.0.2-172.24.0.100-dst | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.24.0.2-172.24.0.100-icmp | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.24.0.2-172.24.0.100-src | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.25.0.100-172.25.0.2-dst | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.25.0.100-172.25.0.2-icmp | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.25.0.100-172.25.0.2-src | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.25.0.2-172.25.0.100-dst | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.25.0.2-172.25.0.100-icmp | PointToPointIntent | 1000 | Installed |
| 111 : org.onosproject.sdnip | 172.25.0.2-172.25.0.100-src | PointToPointIntent | 1000 | Installed |

6. Discuss

這次實驗讓我學會如何用 SDN-IP 讓不同的 AS 溝通，也學會 OVS 相關的操作，這次實驗有助教詳細的講解和 LAB5 的經驗後，基本上沒遇到問題。