**Service Based Forwarding**

Slicing the underlay network and assigning priority to different flowspace.

For example we can divide flowspace (dstip:dstport)=(10.0.0.1:8080) has higher priority 1

and (10.0.0.1:80) with lower priority 2,which means the traffic in flowspace (10.0.0.1:8080) will pass through paths with high bandwidth.

**How to Start**

1. Start karaf and install features below

```

feature:install odl-dlux-all odl-restconf odl-l2switch-switch odl-openflowplugin-flow-services-ui

```

2. Start mininet and create topology to connect controller. \*\*\*topo.py\*\*\* is under poc directory.

```

sudo python topo.py

```

3. Config service ip and port and specify priority. 0 for low priority and 1 for high.

```

# Set service 10.0.0.4 on port 8080 for high priority.

sudo python netSlice.py -d 10.0.0.4 -p 8080 -r 1

# Set service 10.0.0.3 on port 80 for low priority.

sudo python netSlice.py -d 10.0.0.3 -p 80 -r 0

# You can also use template file fromflow.xml and toflow.xml for config, and use netSlice4template.py

# Make sure script and xml file in same folder.

```

4. validate

```

mininet> h4 iperf -s -p 8080 &

mininet> h3 iperf -s -p 80 &

mininet> h2 iperf -c h4 -p 8080 -t 20 -i 5

```