What is Service Function Chaining?
SFC Status in OSM

- Available since OSM Release 3
- SFC only available using: **Openstack Queens (or higher) with Networking-SFC**
- Only supports Asymmetrical Chains
- SFC Encapsulation using Network Service Headers (NSH)
- Traffic classification based in the following fields:

  IP Protocol

  | Source IP Address | Destination |
  | IP Address | | Destination |
  | Source Port | | Destination |
  | Port | | |

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Separate ingress and egress ports

Modifying the Information Model and Resource Orchestrator

Status: Complete.
Symmetrical/Asymmetrical Chains

Currently only Asymmetrical Chains are supported. **Status:** In development.
Non-Transparent Service Functions

Currently not supported. **Status:** Research ongoing.
Branching and Joining

Currently not supported.
**Status:** Research ongoing.

[Diagram showing branching and joining with VNFs #1, #2, #3, and #4]
Service Function Tap

Currently not supported. **Status:** Research ongoing.
SFC descriptors

- classifier:
  - id: class1
  match-attributes:
    - destination-ip-address: 10.10.10.12
      destination-port: 80
    id: match1
    ip,proto: 6
    source-ip-address: 10.10.10.11
    source-port: 0
    member-vnf-index-ref: 1
  name: class1-name
  rsp-id-ref: rsp1
  vnfd-connection-point-ref: vnf-data
  vnfd-id-ref: endpoint_vnfd

- rsp: #redered service paths
  - id: rsp1
    name: rsp1-name
    vnfd-connection-point-ref:
      - member-vnf-index-ref: 3
        order: 0
    vnfd-egress-connection-point-ref: vnf-cp0
    vnfd-id-ref: vnf_nsh_vnfd
    vnfd-ingress-connection-point-ref: vnf-cp0
Hands-on
Demo: Original Network Service

Flow Classifier #1:
- IP Proto: TCP
- Src IP: 10.0.0.11
- Dst IP: 10.0.0.12
- Dst Port: 80

Image:
- ubuntu1604

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