

Service Function Chaining (SFC) BoF

IETF 88

Vancouver, British Columbia

BOF Chairs:

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SFC Background

- Berlin IETF meeting:
 - One-hour non-WG forming BoF
 - Presentation of use cases by Service Providers
 - 250+ persons in the BoF
 - Strong support to do work in space
- Since Berlin:
 - Drafts: on problem statement (quinn-sfc-problem-statement), use cases, architecture, encapsulation, ...
 - Proposed charter: problem statement, architecture, requirements, encap, management
 - Good list discussion
- This IETF: WG forming BoF on Thursday @ 3:20

Service Function Chaining (SFC)

- Today, “composite” network service built from set of cooperating applications/entities interconnected by Service Nodes (FWs, LBs, SSL accelerators etc.)
- Ordered Path through SNs is called Service Function Chain
- Today, deployments achieved by:
 - Physically placing SNs on data path of underlay, or
 - Changing the forwarding of underlying network to "steer" packets through service chain
- Increasingly inflexible/painful deployment model:
 - Requires changing forwarding behavior of underlay, or
 - Requires physical placement of SF on data path

Service Function Chaining (cont.)

- SFC is about changing that model
 - Decouple the "steering" function from underlay
 - Use special encapsulation to tunnel from one SF to another
 - Encapsulation also carries additional meta data in data packets for SF use
- Come to BoF!!
 - Thursday 3:20 PM