

# Use Cases of Computing-aware SFC & SD-WAN

<https://datatracker.ietf.org/doc/draft-zhang-cats-computing-aware-sfc-usecase/>

<https://datatracker.ietf.org/doc/draft-zhang-cats-computing-aware-sdwan-usecase/>

Shuai Zhang (China Unicom)

Xia Chen (Huawei)

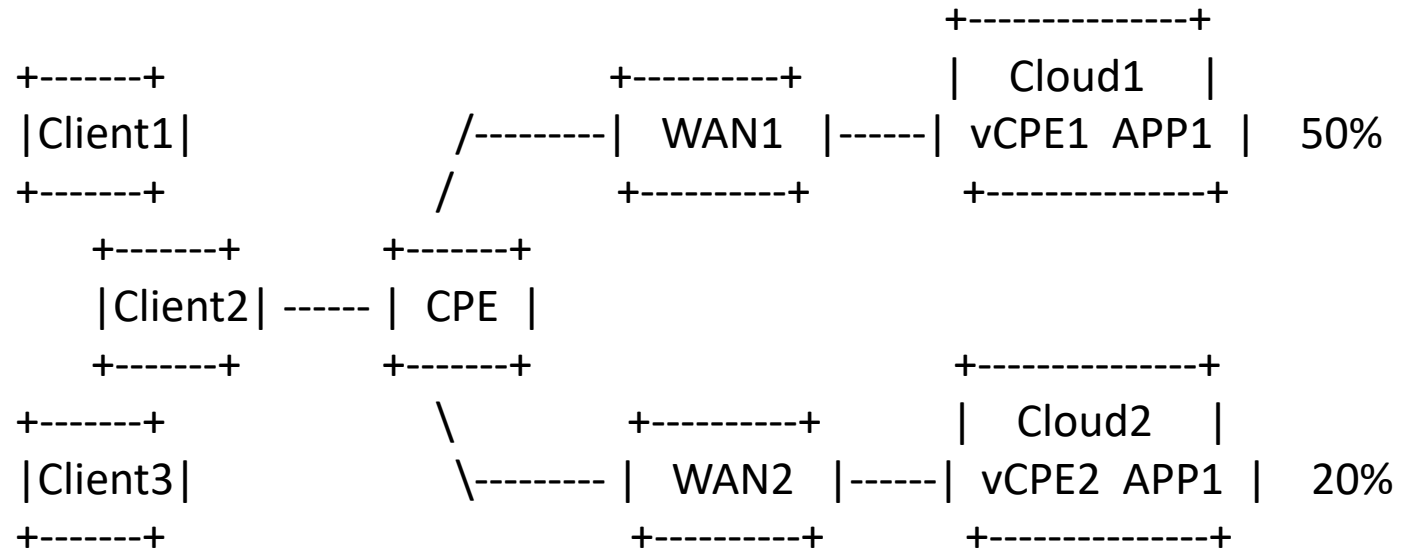
Jianfei Li (China Unicom)

Cheng Li (Huawei)

# *Background*

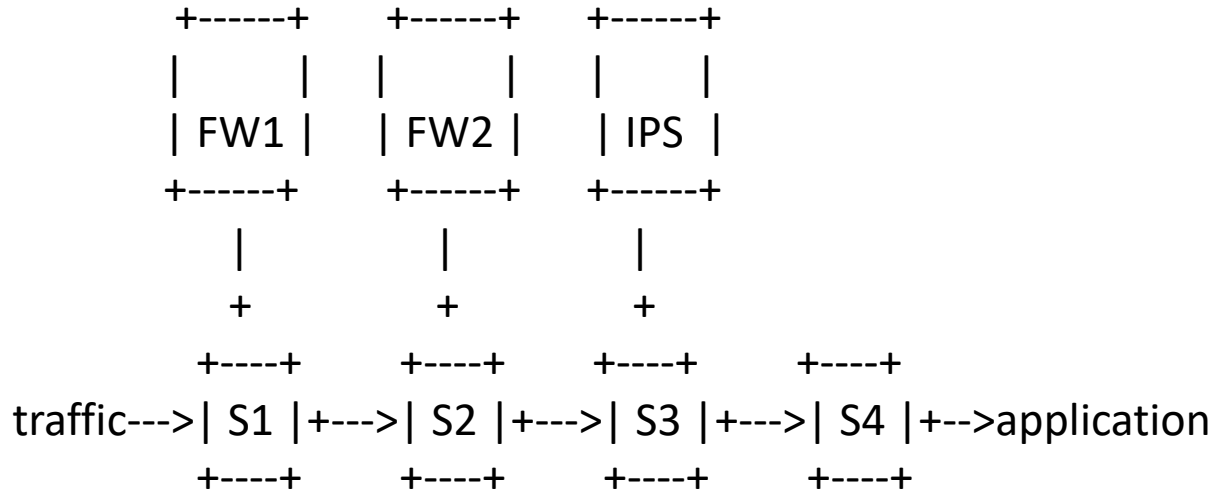
- multiple data centers or computing resource pools distributed deployment
- To provide better services
  - In addition to the cost or latency of network paths between the DCs, whether computing resources should be considered?
  - How to measure computing resources? the number of vCPU? CPU utilization? Memory Utilization? Or others?
  - What technology is used to achieve computing-aware function?

# Use Cases of Computing-aware SD-WAN

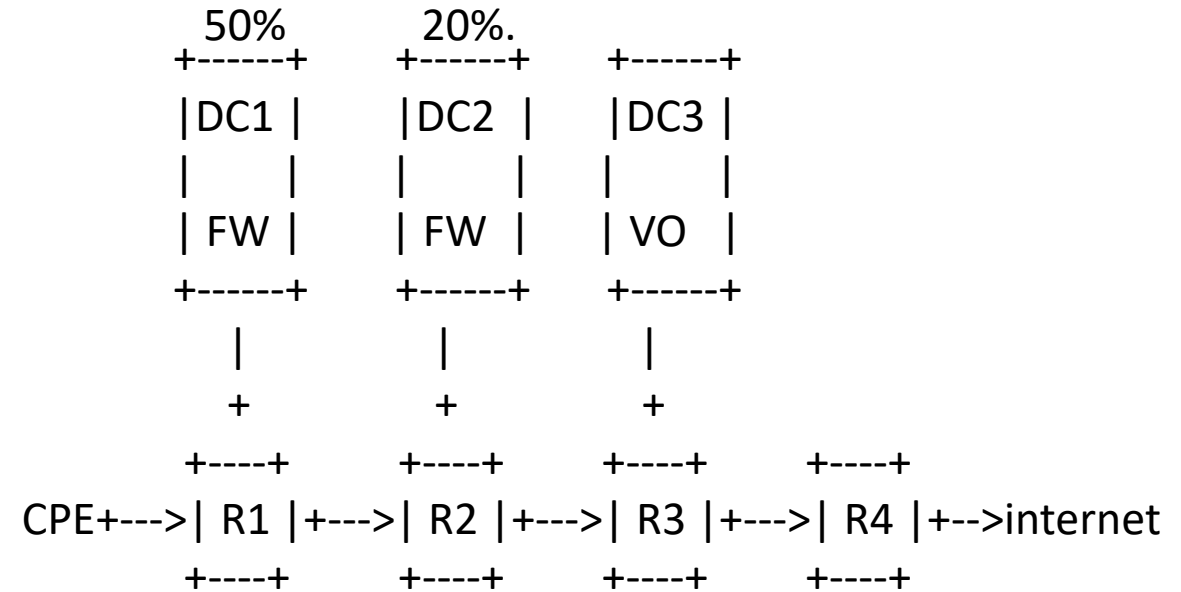


- the same network states;
- Client1 and Client2 visiting APP1 in cloud1;
- How about Client3?
- Client3 -> CPE -> WAN2 -> Cloud2 vCPE2 -> Cloud2 APP1

# Use Cases of Computing-aware SFC



- to access FW and IPS;
- multiple SFPs set up;
- Which one to select?



- to access FW and VO;
- Which DC is better to provide FW?
- CPE -> R1 -> R2 -> DC2 FW -> R2 -> R3 -> DC3 VO  
-> R3 -> R4 -> internet

## *Next Step*

- Solicit comments and refine the draft
- Seeking solutions

*Thank You!*