Use Cases of Computing-aware SFC & SD-WAN


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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 DC is better to provide FW?
  - 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!