Dyncast (Dynamic anycast) in CFN

routing service requests based on computing and network metrics

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draft-geng-rtgwg-cfn-dyncaast-ps-usecase
draft-li-rtgwg-cfn-dyncaast-architecture

IETF109 hotrfc
Problems in edge computing

• Large number of edge sites
• Limited and varying computing resource for each site
• Question: Which edge is the best to route a computing demand to?
  • Computing resource and load attached
  • Network status
  • In real time
Concept of Dyncast in CFN

- Clients use anycast address to access a service
- Routing the packets to the best edge in terms of computing and network load. Transparent to the clients.

Proposed features to be supported in dyncast:
- Anycast based service addressing methodology
- Flow Affinity
- Computing Aware Routing
Activity in IETF 109

• Virtual Side Meeting:
  • Wed (Nov 18), start 5 min after IETF plenary ends, 75-min session
    • UTC 10:45 - 12:00
    • CET (UTC+1) 11:45 - 13:00
    • CST (UTC+8) 18:45 - 20:00
    • PST (UTC-8) 02:45 - 04:00
  • Information also available on side meeting wiki: https://trac.ietf.org/trac/ietf/meeting/wiki/109sidemeetings
  • Webex: cfn-dyncast
  • Email me at liyizhou@huawei.com

• Purpose:
  • Understand the use cases, problem space, gaps and challenges
  • Review the framework, is it a right direction to go?
  • Discuss the potential work and where to fit them in IETF?