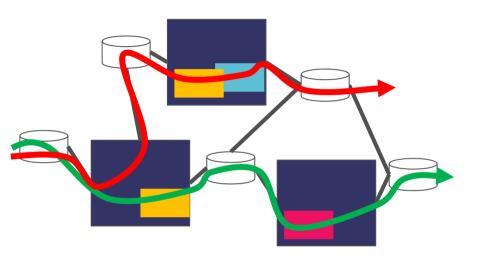


Service Function Chaining for In-Network Computation



Current practices: Centralized control infrastructure

Problems:

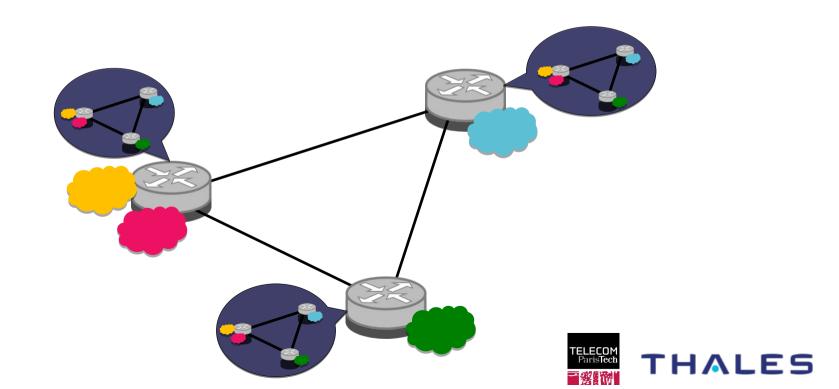
- Single Point of Failure
- Scalability
- Legacy Interoperability
- No Incremental Deployment
- Under exploitation of in-network resources

Proposal: Augment the IGP and make it function aware



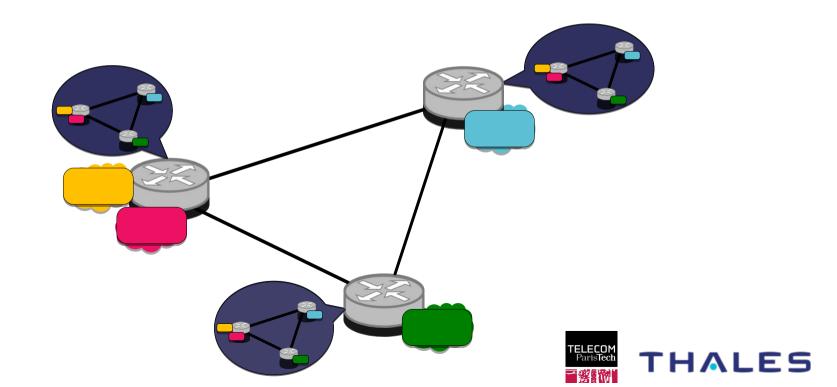
Exploiting the existing in-network ressources

If you have a large network you have an IGP (Interior Gateway Protocol)



Announced address are actually VNF

Idea(s): Binding a prefix to a specific function

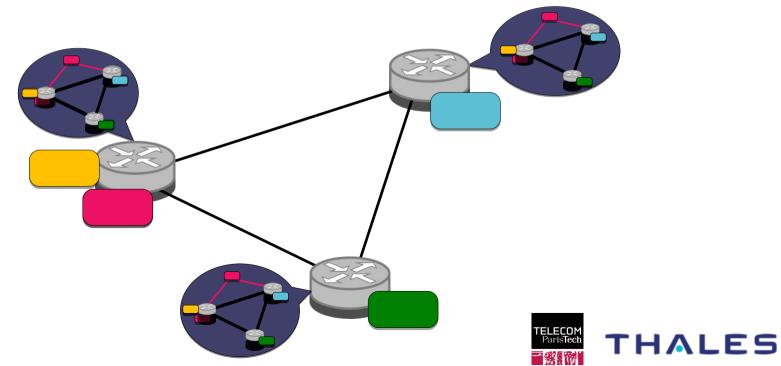


Leveraging on anycast addressing

Idea(s): Binding a prefix to a specific function + Anycast Addressing

Advantages

- Prefix to select the function
- > IGP metric to select the function instance



To be continued ...

Details on COINRG session Thursday 1:30p.m.

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References:





