Massively Distributed Clouds Working Group

101
Fog/Edge Computing Infrastructures

- Leverage network backbones
  Extend any point of presence of network backbones (aka PoP) with servers (from network hubs up to major DSLAMs that are operated by telecom companies, network institutions...).

- Extend to the edge by including wireless backbones
Revise OpenStack to Support Fog/Edge Computing Infrastructures

• Do not reinvent the wheel… it is too late
• Mitigate development efforts

  • By favouring a bottom/up approach (instead of Top/Down proposals) Investigate whether/how OpenStack core services can become cooperative by default (using P2P and Self-* technics).

  • By relying on a strong knowledge base (Scientific community as well as real use-cases)

Step 1
Step 2a
Step 2b
Step 2c

Step 3: Enhanced IaaS Services
Top/Down

Orchestrator

Centralised

Distributed
Bottom/Up

Step 1

Step 2a

Step 2b

Step 2c

Step 3: Enhanced IaaS Services

Natively distributed