

GÉANT Open Call Projects

Open Call research is helping pave the way for the next generation of services, applications and uses for networking and supports the aims of Horizon 2020 and the challenges of the data deluge.

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INNOVATION PROGRAMME

CEOVDS | Cross-site Evaluation of an Openflow-assisted Video-on-Demand Distribution Service

Motivation: Video-on-Demand (VoD) Distribution Efficiency

As VoD grows there are increasing demands on network infrastructure

- VoD requests are handled naively: there is an independent flow per request
- Therefore, duplicate flows deliver identical media objects through the same network segments

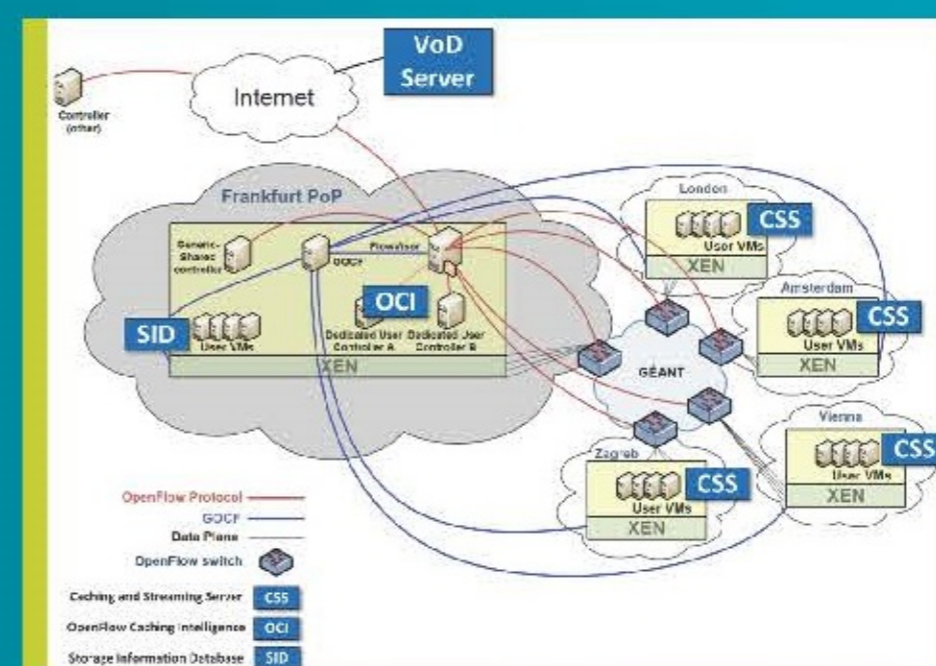
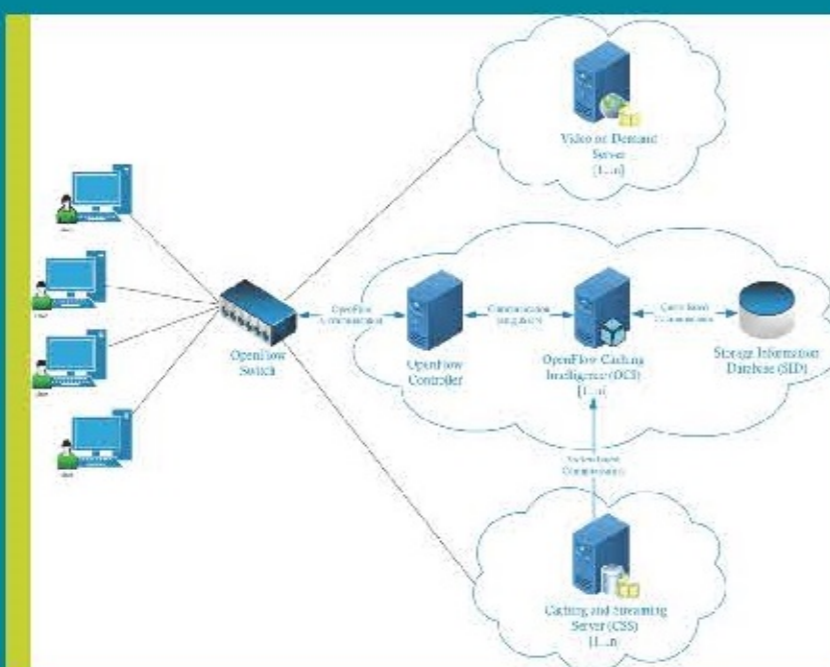
The Challenge:

- End-to-end capacity of network infrastructure must grow continuously to match the increasing number of Internet video users
- The increasing popularity of VoD and especially of High Definition content will worsen this

Project Aims

1. Develop and evaluate an OpenFlow-assisted VoD distribution service for cross-site deployment on the GÉANT OpenFlow facility
2. Evaluate end-to-end cross-site VoD traffic to:
 - Reduce the overall network utilization
 - Improve the Quality of Experience for the end-user

Deploying the service on the GÉANT OpenFlow Facility for cross-site experimentation and evaluation



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