

4th SIG-PMV Meeting @ TNC2018

Program:

14:00 - 14:10 Welcome and Introduction SIG-PMV Meeting at TNC2018

Moderator - Susanne Naegele-Jackson (FAU), Kurt Baumann (SWITCH)

14:10 - 14:30 GÉANT - GÉANT DTN deployment and early Pilots

Speakers: Mian Usman (GÉANT), Richard Hughes-Jones (GÉANT)

Abstract: The talk will introduce the deployment of the Data Transfer Node Service in the GÉANT network. The service aims to provide a facility to enable validation of transfer performance for campus or user community DTNs. The talk will give details of the network and storage hardware used as well as the network test and data transfer tools currently available. This will be followed by presentation of some of the results from early pilot tests including those from the AENEAS project.

14:30 - 14:50 TU Munich - Reproducible Performance Tests with MoonGen (remotely)

Speaker: Paul Emmerich, TU Munich

Abstract: Proper benchmarking is hard. It's easy to make seemingly innocent mistakes that ruin your test results. One of them is using an unreliable or imprecise software packet generator. This talk is about our software packet generator MoonGen and how we use it to run reproducible performance experiments using commodity hardware. We will discuss the challenges we faced while building a precise software packet generator. One of them was that software packet generators often send bursty traffic instead of the configured traffic pattern. Another problem we faced and solved is accurate and precise timestamping.

Reference: <https://events.ccc.de/congress/2017/Fahrplan/speakers/7808.html>

14:50 - 15:10 GÉANT - Resources Monitoring in GTS (remotely)

Speaker: Nicolai Iliuha (RENAM)

Abstract: Two groups of resources are monitored in GTS (data collected in Zabbix): In this presentation we explain the concept of monitoring for GTS. Further we demonstrate the existing monitoring tools, show the roadmap, development and approaches. This is focusing on GTS system resources, GTS user projects or tenant resources and the automated monitoring of parameters in the background.

15:10 - 15:30 INTEL - Need for High Performance Data Plane and Cache Consistency (Requirements and its Packet Processing Performance Implications) (remotely)

Speaker: Sujata Tribrewala (INTEL), Murthurajan Jayakumar (INTEL)

Abstracts: (1) Session on how packet processing operations, header lookups, sanity checks, quality of service get translated onto CPU cycles and the performance considerations while implementing VNFs. (Speaker: Sujata Tibrewala) (2) Requirements and its Packet Processing Performance Implications: Session on how where the data is stored in your VNF affects the performance under the hood and what CPU architecture advances optimize them for faster packet processing and agile VNFs (Speaker: Muthurajan Jayakumar)

Reference: [IEEE SDN/NFV conference at Berlin](#)

Discussions and Q&A between the presentations.