HEPiX NFV Working Group Meeting

Meeting May 23rd, 2018 https://indico.cern.ch/event/729896/

Participants (**Please sign yourself in!**): Shawn McKee, Garhan Attebury, Marian Babik, Tony Cass, Rolf Seuster(UVic), Stefano Zani (INFN CNAF), Fabio Farina (GARR), Tim Chown (Jisc), Mauro Campanella (GARR), Thomas Hartmann (DESY)

Agenda:
Aims of the meeting:
- Feedback from last meeting and HEPiX
- Round-table news/status updates
- Discuss next meetings and planned topics
  - Explore/agree on methods of working (Documentation, F2F/meetings)

Background:
Latest status update given at the last HEPiX:
https://indico.cern.ch/event/676324/contributions/2984916/

Notes:

News:
- OpenStack Summit in Vancouver (this week)
  - https://www.openstack.org/videos/vancouver-2018/neutron-project-update-1
  - Evolution of OpenStack Networking at CERN: Nova Network, Neutron and SDN
    - https://www.youtube.com/watch?v=5WL47L1P5kE
- OpenVSwitch 2.9.1 released
  - This is the first release to include support for OVSDB clustering based on the Raft consensus algorithm. This will be primarily of interest to users of OVN, since it will allow scaling out of its core databases.
  - Shawn compiled some EL7 rpms available at: http://linat05.grid.umich.edu/OVS/rpms/ (See details at https://www.aglt2.org/wiki/bin/view/Main/Open_vSwitch/InstallOVSonSL73)
- Kubecon
  - DigitalOcean talk on networking - http://sched.co/Dqv8
- HEPiX meeting last week
  - https://indico.cern.ch/event/676324/contributions/2984916/
  - Shawn gave the talk
  - Also discussed with Andreas Petzold / KIT about installing OVS on KIT dCache production servers. Will do this over the next few weeks using OVS 2.9.1 (see above)
- Tungsten/OpenContrail News
- BaGPipe-BGP mentioned by Tristan in the mailing list: https://docs.openstack.org/networking-bagpipe/latest/user/bagpipe-bgp.html

Meeting plans:
- 20th June - Tungsten/OpenContrail session, talk from Dennis von Dok / NIKHEF
- Sept (date 5th?) - OpenDaylight/OpenVSwitch session, talk from Caltech (tentative)
- HEPiX Barcelona (8-12 Oct.)
- 30-31st Oct. - F2F in Fermilab (co-located with LHCOPN/LHCONE workshop) - confirmed - we'll have a dedicated session on 31st morning (as part of R&D) and we can have discussion afterwards
- Nov (19-23) and Dec (10-14 Dec) - possible topics: SDN/ATLAS experiments (Shawn ?); Corsa SDN/NFV (Ben ?) and/or ONOS; Tungsten SDN/NFV session with someone from Juniper
- HEPiX Spring will be in San Diego (might be early)
- Next year - F2F at CERN before HEPiX (so February or March) - proposal to have a dedicated SDN/NFV session at HEPiX (one year review)

Round-table news/updates:
Stefano interested in deployment of OVS on gridftp @CNAF (as part of Shawn's end-to-end testing) and also reported that GARR/CNAF plans to start playing around with the voyager stations (looks very promising)

AOB: