

Gap Analysis on Network Virtualization Activities

draft-irtf-nfvrg-gaps-network-virtualization-00

Carlos J. Bernardos, Akbar Rahman, Juan C. Zúñiga,
Luis M. Contreras, Pedro Aranda

Buenos Aires, NFV RG, April 2016

History

- History (draft-irtf-nfvrg-gaps-network-virtualization)
 - -01 presented in Prague (93rd IETF)
 - -03 presented in Yokohama (94th IETF)
- Multiple feedback and support collected at the mailing list
- Adopted as RG document after Yokohama
<https://datatracker.ietf.org/doc/draft-irtf-nfvrg-gaps-network-virtualization/>

Objectives

- Provide an overview and survey of the efforts around virtualization at the IETF/IRTF
 - Special focus on NFV and SDN
- Mapped to the most relevant efforts taking place outside IETF:
 - ETSI NFV ISG
 - ETSI MEC ISG
 - ONF
 - Open Source initiatives
 - ...

IETF/IRTF initiatives and gaps

- Currently organized around WGs:
 - SDN RG
 - SFC WG
 - NVO3 WG
 - DMM WG
 - I2RS WG
 - BESS WG
 - BM WG
 - TEAS WG
 - I2NSF WG
 - IPPM WG
 - NFV RG
 - VNFPool BoF
- Several potential gaps identified so far

Changelog / Comments received (I)

- Kostas Pentikousis
 - Add more of RFC 7426 and SDNRG
 - Addressed in -00: some terminology added, SDNRG has now more presence in the document
 - Mention IPPM work done in draft-cmzrjp-ippm-twamp-yang
 - Addressed in -00: reference added
 - Editorial comments
 - Addressed in -00: abstract rewritten, document updates
 - Left for future releases: change the organization of the document, based on research topics, not on per SDO/WG

Changelog / Comments received (II)

- Rana Pratap Sircar
 - Editorial comments
 - Addressed in -00
 - Add more open source frameworks in Section 3.6 (Open Source initiatives)
 - Addressed in -00: ONOS and OpenContrail, OSM and OpenBaton added, text improved.

Changelog / Comments received (III)

- Alfred Morton
 - Include work from BM WG in the analysis
 - Addressed in -00: new section 4.7
- Ramki Krishnan
 - Include SUPA WG in the analysis
 - To be addressed in -01

Next steps (I)

- Include other areas into the analysis, e.g.:
 - IoT and NFV/SDN/MEC
- Major:
 - Change document structure:
 - Not per WG/SDO, but per topic
 - Identify key missing elements and future work
 - Broaden the document scope:
 - Include research challenges of interest for the RG
 - The gap analysis would help identifying and characterizing these challenges

Next steps (II)

- Minor:
 - Add SUPA WG in the analysis
 - Keep doing editorial improvements
 - Add Security Considerations
- Please provide reviews/comments/input on the mailing list