Gap Analysis on Network Virtualization Activities

draft-irtf-nfvg-bdngaps-network-virtualization-00

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

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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

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