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Network Virtualization Overlays (NVO3)

NVO3 Meeting, IETF 86,
Orlando, FL

Benson Schliesser (bensons@queuefull.net)

Matthew Bocci (matthew.bocci@alcatel-lucent.com)

Administrivia

- Blue Sheets
- Note takers + Jabber Scribe
- Mailing List:

  General Discussion: nvo3@ietf.org

  To Subscribe: nvo3-request@ietf.org

  In Body: subscribe your_email_address

  Archive: http://www.ietf.org/mail-archive/web/nvo3/index.html

Meeting Objectives
(Priority order)

- Progress current milestones
- Discuss work plan beyond current milestones
- See http://tools.ietf.org/wg/nvo3/charters for more information.

Agenda -1

Opening Intro (05 min)

- 05 mins - Blue sheets, agenda bash, status update – Chairs

WG Updates (50 min)

- 15 mins - NVO3 Work Plan - Chairs
- 15 mins - NVO Architecture Design Team report - David Black
- 10 mins - NVO3 Framework Draft - Marc Lasserre

    draft-ietf-nvo3-framework

- 10 mins - NVO3 Use Cases - Lucy Yong

    draft-ietf-nvo3-use-case-00

Agenda - 2

Requirements (25 min)

- 10 mins - Data Plane Requirements - Marc Lasserre / Nabil Bitar

  draft-ietf-nvo3-dataplane-requirements

  Objective: WGLC

- 10 mins - Control Plane Requirements - Larry Kreeger

  draft-kreeger-nvo3-hypervisor-nve-cp

  Objective: Adopt as a WG draft

- 05 mins - Security Requirements - Dacheng Zhang

  draft-hartman-nvo3-security-requirements

Agenda - 3

Milestone Related (30 min)

- 10 mins - Data Plane Requirements and Framework Additions - Lucy Yong
   draft-yong-nvo3-frwk-dpreq-addition-00

- 10 mins - Multicast Issues - Anoop Ghanwani
   draft-ghanwani-nvo3-mcast-issues-00

- 10 mins - Centralized vs. Distributed Approaches - Qin
   draft-fw-nvo3-server2vcenter-01
   draft-wu-nvo3-nve2nve-01
   draft-wu-nvo3-mac-learning-arp-01

Agenda - 4

Solutions & Gap Analysis (20 min)

- 10 mins - Federated SDN Controllers - Florin Balus

    draft-sb-nvo3-sdn-federation-00

- 10 mins - VPN Gap Analysis - Lucy Yong

    draft-hy-nvo3-vpn-protocol-gap-analysis-01

Other Related (10 min)

- 10 mins - State Migration - Melinda Shore

    draft-gu-statemigration-framework-00

    draft-gu-statemigration-arch-00

Milestones

Dec 2012 - Problem Statement submitted for IESG review

Dec 2012 - Framework document submitted for IESG review

Dec 2012 - Data plane requirements submitted for IESG review

Dec 2012 - Operational Requirements submitted for IESG review

Mar 2013 - Control plane requirements submitted for IESG review

Mar 2013 - Gap Analysis submitted for IESG review

Apr 2013 - Recharter or close Working Group

Working Group Document Status

- draft-ietf-nvo3-overlay-problem-statement
  - Last Call completed
  - Outstanding comments on list need to be addressed before progressing
- draft-ietf-nvo3-framework
  - On agenda
  - Last Call Completed
- draft-ietf-nvo3-dataplane-requirements
  - Ongoing

Working Group Document Status

- draft-ietf-nvo3-use-cases
  - On agenda
- draft-ietf-nvo3-mobility-issues
  - On going

NVO3 Next Steps - 1

- There has been some discussion about when NVO3 can adopt solutions
- Our rechartering / shutown decision driven by gap analysis
- Gap analysis is driven by requirments

Requirements → Gap Analysis → Decision → Shutdown / Recharter
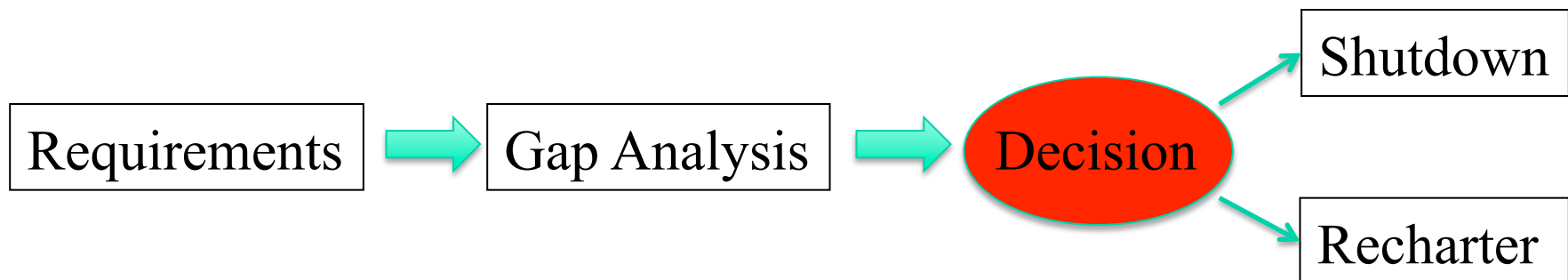
NVO3 Next Steps - 2

- GA will be single doc, with appointed editor,
  - Can be accompanied by multiple solution-specific GA drafts, or can be merger of different text sources
- For each solution, we need a detailed gap analysis (GA)
  - Applicabity of solution to NVO3
    - References to the solution, and which parts are relevant to NVO3
  - Analysis of gap between solution and NVO3 requirements
    - Which requirememts are met, and which are not met
- Where to submit the GA:
  - If solution belongs to other WG, submit GA to NVO3 and it will be redirected as appropriate
  - If belongs to another SDO, submit GA to NVO3
  - If belongs to nobody (e.g. individual) submit GA to NVO3

NVO3 Next Steps - 3

What about the Architecture draft?

- Help discuss questions that drive / inform the requirements
- Capture arch issues that might be important to rechartering
- Document architecture as it is developed

NVO3 Next Steps – 4 Documents

Problem

Framework/ Requirements

Gap Analysis

Recharter / Shutdown Decision

GA A

GA B

GA C

GA D

Existing outside NVO3, or new as individual draft in NVO3

Solution A

Solution B

Solution C

Solution D

Architecture

Solution(s)

NVO3

Requirements

Solution(s)

Other WGs