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Network Virtualization Overlays (NVO3)

NVO3 Meeting, IETF 85, Atlanta, GA

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
Meeting Objectives (Priority order)

- The agenda will be organized to align with our Dec 2012 milestones.
Agenda - 1

Opening Intro (05 min)
• 05 mins - Blue sheets, agenda bash, status update – Chairs

Problem Statement and Framework Discussion (40 min)
• 20 mins - Framework - Marc Lasserre
draft-ietf-nvo3-framework
Objective: Get this to WG last call
• 20 mins - Problem Statement – Thomas Narten
draft-ietf-nvo3-overlay-problem-statement
Objective: Get this to WG last call
Agenda - 2

Requirements (25 min)
15 mins - Data Plane Requirements - Nabil Bitar
draft-bl-nvo3-dataplane-requirements
Objective: Adopt as a WG draft

5 mins - Discussion of Operational Requirements - Chairs
draft-ashwood-nvo3-operational-requirement
Objective: Adopt as a WG draft

5 mins - Discussion of Control Plane Requirements - Chairs
draft-kreeger-nvo3-overlay-cp
draft-kreeger-nvo3-hypervisor-nve-cp
Objective: Adopt as a WG draft
Agenda - 3

Milestone-related Drafts (45 min)

10 mins - Network-related VM Mobility Issues - Yakov Rekhter
   draft-rekhter-nvo3-vm-mobility-issues

10 mins - Requirements for Mobility and Interconnection of Virtual Machine and Virtual Network Elements - Richard bin Liu
   draft-khasnabish-vmmi-problems

10 mins - Signaling VM Activity to the NVE - Kireeti Kompella
   draft-kompella-nvo3-server2nve

10 mins - Mechanism and signalling between TES and NVE - Yingjie Gu
   draft-gu-nvo3-tes-nve-mechanism

10 mins - Path Optimization for LAN Extension - Xiaohu Xu
   draft-xu-nvo3-lan-extension-path-optimization

10 mins - Use Cases for DC Network Virtualization Overlays - Lucy Yong
   draft-mity-nvo3-use-case
Agenda - 4

Architecture (20 mins)
20 mins – NVO3 Architecture -Chairs
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
  – On agenda
  – Ready for WG Last Call?

• draft-ietf-nvo3-framework
  – On agenda
  – Ready for WG Last Call?
Interim Meeting

- Interim meeting was held in Westford, MA, on 20\textsuperscript{th} September 2012
- Significant discussion of problem statement and framework, control and data plane requirements, as well as operational requirements and some solutions
Operational Requirements

- We are chartered to cover operational requirements
- draft-ashwood-nvo3-operational-requirement-00.txt
- Would like to see more progress
- Chairs looking for volunteers from operators to help with this effort
- Will issue a call for adoption shortly
Control Plane Requirements

- Following the interim meeting, the control plane requirements draft has been split into:
  - Overlay CP requirements:
    - draft-kreeger-nvo3-overlay-cp-02
  - NV Hypervisor-to-NVE CP requirements:
    - draft-kreeger-nvo3-hypervisor-nve-cp-00

- Please read the drafts and send comments to the list
- Looking to adopt CP requirements following adoption of the data plane requirements
NVO3 Architecture

- Framework already provides a guide to the functional components and how they relate
  - Requirements/solutions are difficult if scope too broad
  - Goal: better-define the focus of the WG

- Architecture will provide a skeleton built from the framework components into which solutions can fit
NVO3 Architecture

• Design team has been volunteered to capture consensus of the WG in an architecture draft
• This draft will evolve in parallel with solutions