

# Virtual Networks Research Group

(IRTF VNRG)

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# Virtual Networks Research Group

- Blue sheets
- Note taker
- Jabber scribes ([vnrg@jabber.ietf.org](mailto:vnrg@jabber.ietf.org))
- State your name when talking at the microphone

# Agenda

- Agenda Bashing
- RG Status (5 minutes)
  
- Network virtualization: What? Why? How? Challenges?  
by Didier Colle – 10 minutes
- Network Virtualization - Results and Challenges  
by Martin Röhrich – 10 minutes
- Definition and Perspective of Virtual Networks  
by Sangjin Jeong – 10 minutes
- Common problems/challenges in VN  
by Dimitri Papadimitriou – 10 minutes
  
- open discussions to clarify the questions  
<http://www.ietf.org/mail-archive/web/vnrg/current/msg00200.html>

# A Note on RGs

- It's *Research* Group
- no need to find or determine the solution
- we are open for multiple ways
  - several approaches
  - even contradicting each other

# RG Status

- 1<sup>st</sup> RG meeting during IETF-77 (Anaheim)
- Light discussion on mailing list between IETF-77 and now
  - Continuing to unify perspective from BOF discussions:
    - “OS” vs. “net” focus (currently net focused)
    - testbed vs. regular operations
  - initial Problem Statement got wedged too early on wordsmithing
    - currently revising to group-edit the outline/issues, etc.
    - finding/discussing the problems first
- 2<sup>nd</sup> RG meeting here at IETF-78
  - Key issue to be addressed – “virtual” vs. “logical”

# Upcoming IAB Review

- Each RG is reviewed by the [IAB](#)
  - for the IAB to improve its understanding of what the research groups are up to, where there's coverage and where there isn't;
  - for the RG to improve its understanding of architectural issues, broader context for the research, and possible tie-ins with IETF working group activity;
  - to give the IRTF chair a tool for helping to manage the RGs, and managerial input from the IAB;
- VNRG review is due this IETF
- IAB review scheduled for Thursday
  - Joe and Martin will attend

# Starting questions

- how do you define VNs?
  - what are the key components?
  - what is the relationship between these components?
  - what is the characteristic behavior/capability of the resulting system?
- what are VNs used for?
- what are they key challenges?
- for each challenge:
  - define the challenge explain why it is hard
  - provide some references to those working on solutions