IPv6 Operational Guidelines for Datacenters

draft-lopez-v6ops-dc-ipv6

IETF86 – v6ops
About the draft

• Its goal is to provide operational guidelines for datacenter operators planning to deploy IPv6 in their infrastructures.

• The document focuses on the DC infrastructure itself, its operation, and the aspects related to DC interconnection through IPv6

• First version submitted in March 2012

• First live discussion (on -02) during IETF 84
What’s New in -04

• “Maturity levels” renamed into “Transition Stages” in version 03
• Now “Transition Stages” moved to “Transition Stages and Architecture”
• Added motivations for IPv6-only scenarios
• Added section “Other Considerations”
  – Addressing, Management Systems, etc.
• More detailed “Security Considerations”
• Other
  – Update references, paraphrasing, adding a new author
Other considerations

• Addressing
  – Addressing plans
  – Use of PA vs PI
  – Use of ULAs, when, why, why not

• Management Systems and Applications

• Monitoring and Logging

• Costs
Security Considerations

• NDP attacks
• Addressing (Scanning)
  – VMs and MAC address
  – Low byte
• Edge filtering
  – BCP38
Questions?