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?