

... in the real world

James Blessing 3rd May 2011 Ripe 62 - Amsterdam





Before

- Global Network of POPs
- Dual stack, v4 region specific but v6 numbered out of ARIN space
- Address Plan
 - /48 per 'Metro' re-using BGP info
 - /64 per network (grouped in /52s per physical POP)
 - First /48 reserved for loopbacks
 - Second & Third /48 reserved for p2p links (/126 as we use Brocade)
 - Last two /48's reserved for 'experimental/testing'



Goal

- Renumber RIPE region pops so they use RIPE v6
- As little impact as possible to operations
- Maintain as much of Address Plan as possible



Method

- We use BGP identifiers
- Example London
 - BGP Comunnity 60
 - Old 2607:F4E8:600:/48
 - New 2A02:3D0:600:/48
- Loop backs
- Links
- Networks
- Internal Systems (Infoblox)



Lessons Learned

- Make sure you documentation is accurate
 - 1 Source of data
 - Future tense in documentation should be checked
- Sometimes things are simple...





